EL-KHAYYAT PRE-QUALIFICATION

CONTENT

- COMPANY PROFILE
- LICENSE AND CERTIFECATS
- PRODUCT CATALOGE
- MSDS
- TEST REPORT
- PROJECT APPROVAL
- METHOD STATEMENT DRYWALL PARTITION , CEILING , LINER SYSYTEM
- GUIDELINES







General Manager's Message

" EVERY MILESTONE HAS A HISTORY "

Since the inception of El-Khayyat Gypsum Factories, we have successfully forged a remarkable reputation for our company within the Kingdom and the region as a leading producer and exporter of gypsum products.

We formulate our products using high grade raw material which is procured from our own mines and trustworthy vendors of the market. Due to their durability, accurate composition and fine finish, our products are extensively used for various industrial and residential applications. In our quest to meet the market demand, a team of dedicated professionals and modern yet high-tech infrastructure, we have been able to offer a superior range of gypsum at competitive prices within the postulated time frame.

We have been able to perform exceptionally well in this highly competitive market. Our values are central to our success! We remain committed to offering premium quality products that comply with the highest national and international standards.

In the very near future, EI-Khayyat Gypsum will unveil many of its new offerings to the market and will continue to strive to maintain its reputation as a leading supplier of quality Gypsum.

General Manager El-Khayyat Gypsum Factories



OUR VISION

El-Khayyat Gypsum Factories is recognized nationally and regionally as a world class producer of premium quality gypsum board, a successful organization and are liable partner in nation building.

OUR MISSION

To serve the global building needs of its valued customers and maintaining the most efficient and progressive company in Gypsum producing business backed by a motivated, resourceful and excellent dedicated team to the continuing expansion of our operation and production. El- Khayyat Gypsum Factories will succeed by providing a diverse

range of highest quality gypsum board from our state-of-the-art Facilities and resources, backed by our technical and intellectual knowhow.



EL-KHAYYAT WAS ESTABLISHED IN 2006

TOTAL FACTORY AREA: 69000M2 BUILT UP AREA: 434404M2 WAREHOUSE AREA: 4000M2



CERTIFECATE AND LICENSE

COMPANY REGISTRATION CERTIFICATE





Your commercial recoeds code (QR Code)

Through it you can directly check information of:



Chamber of commerce membership

Nitagat program

¥∎®™MCgovSA www.mc.gov.sa



Branch Of Company Registration Certificate	National Unified No : 7006547090 4700012187
شهادة تسجيل فرع شركة	Date : 1431/01/25 2010/01/11

any AL-KHAIYAT LEJEBS Lt	d.
ty	Company's Total Capital: 105,105,000 Saudi Riyals
- hay al-andales share al-ami	r mohamed ben abdulaziz merkez al-khaiyat al-tajari
Postal Code: 214	71 P.O Box: 003300
ber: 4030169349	Date: 1428/04/26 H / 2007/05/13 Issued by: Jeddah
IYAT LEJEBS	
as-sanat al-khafifia	
Postal Code:	P.O Box:
e CR activities please scan th	e QR code
HMED T KHAYYAT	
Date of E	Birth: 1395 H / 1975 Issued by: GRANDMA
ID Date:	1411/06/26 H / 1991/01/12 ID Issued by: JADDE
ated in the company's contra	Date:/ Issued by:
tment of city acknowledge: Yanbu	That this company has been registered in the registry of city: Yanbu
e valid: 1450/03/08 H / 2028/07	And Date: 1445/12/28 H / 2024/07/04



يمكنكم التحقق من صحة هذه الشهادة بالدخول على To Verify The Information Of This Certificate Visit http://gr.mc.gov.sa 1294 4444 | الرياض 11162 | Riyadh 11162 | الرياض MCgovSA WWW.Mc.gov.sa | المملكة العربية MCgovSA WWW.Mc.gov.sa 🕊 🖫 🎯



المركز السعودي للأعمال Saudi Business Center



Dear Business Owner \

Factory AL-KHAIYAT LEJEBS

مركة الرحة والضريط والجما

We wish you success and prosperity in your business, and that you become a valuable contributor to the economy of the Kingdom of Saudi Arabia.

We are delighted to inform you that your business entity's unified number is.....

7006547090

The number has been linked to the following government services



To benefit from the services provided by government entities



XIII II III MCgovSA mc.gov.sa

Trader's Guide



٠

ness entity number

COMPANY REGISTRATION CERTIFICATE



الرقد رقم التاري	شهادة تسجيل فرع شركة ranch Of Company Registration Certificate	وزارة التجارة Ministry of Commerce
	يكة شخص واحد	سم التجاري للشركة : شركة الخياط للجيس المحدودة شر
هو دي	رأسمالها : ۱۰۰ ريال س	عها : ذات مسئولية محدودة
	ن عبدالعزيز مركز الخياط التجاري	كزها الرئيسي : جده - حي الاندلس شارع الامير محمد بر
۲۳	الرمز البريدي : ۲۱٤۷۱	تف :
مصدرہ : جد	تاريخه : ۱٤۲۸/۰٤/۲۱ هـ	م سجل المركز الرئيسي : ٤٠٣٠١٦٩٣٤٩
		سم التداري : مصنع الخياط للجبس
		بنوان : ينبع الصناعية الصناعات الخفيفية
ں. ب :	الرمز البريدي :	تف :
كية الشركة : سعودية	التجاري	شاط: للاطلاع على بيانات الأنشطة الرجاء مسح الرمز
		ــم المديـر (ربـاعـيا) : هيئم أحمد طه خياط
مكان الميلاد :	تاریخ المیلاد : ۲۹۰۰ هـ	ىئىسىيە: سىسعودى
مصدرہ : جدہ	تاریخه : ۱٤۱۱/۰۲/۲۱ هـ	م السجل المدنى : ۱۰۰۳۲۷۳۰۱٦
مصدرہ :	تاريخه :	لطات المدير : حسب ما نص عليه عقد الشركة
	بأنه تم تسجيل فرع الشركة المذكورة أعلاه بمدينة : <mark>ينبع</mark>	ليهد مكتب السجل التجاري بمدينة : ا ينبع
وتاريخ : ۱۴۴۵/۱۲/۹۸ ه	بموجب الإيصال رقم : ۲٤۰۷٤۲٦۸۹۱۹۹	نتهي صلاحية الشهادات في : ١ ٤٥٠/٠٣/٠٨ هـ

يمكنكم التدفق من صحة هذه الشهادة بالدذول على التدمق من صحة هذه الشهادة بالدذول على الم

www.mc.gov.sa MCgovSA @ 🖬 🗲 🗈





الهيئة العامة للزكاة والدخل General Authority of Zakat & Tax



تاريخ الإصدار: 2021/11/07 الرقم المميز: 3006964515



شهادة تسجيل في ضريبة القيمة المضافة VAT Registration Certificate

تشهد الهيئة العامة للزكاة والدخل بأن المكلف أدناه مسجل في ضريبة القيمة المضافة بتاريخ 2017/08/25

Hereby, The General Authority of Zakat & Tax (GAZT) certifies that the taxpayer below is VAT registered on 25/08/2017

Taxpayer Name:شركة الخياط للجبسVAT Registration Number:300696451500003Effective Registration Date:2018/01/01Taxpayer Address:23322 (2322) (2



كمكلف مسجل في ضريبة القيمة المضافة، لا يجوز لك تحصيل ضريبة القيمة المضافة من عملائك قبل تاريخ نفاذ التسجيل بالضريبة. في حال تبين غير ذلك، ستقوم الهيئة العامة للزكاة والدخل بتنفيذ الغرامات المستحقة

> هذه الوثيقة مرسـلة من النظام الآلي ولا تحتاج إلى توقيع – الهيئة العامة للزكاة والدخل –



TIN	81975010	الرقم المميز
Certificate No.	1117777777	رقم الشهادة
Issue Date	١٤٤٥/١٠/٢٢ هـ	تاريخ الاشعار



هيئة الزكاة والضريبة والجمارك Zakat, Tax and Customs Authority المملكة العربية السعودية Kingdom of Saudi Arabia

شهادة

Certificate

The Zakat, Tax and Customs		تشهد هيئة الزكاة والضريبة
Authority certifies that the Taxpayer		والجمارك أن المكلف /
	ركة الخياط للجبس	ش
Entity Unified No./ID No.	V++IV+9VII	الرقم الموحد للمنشأة / رقم هوية
Commercial Registration/License/ Contract No	€· ₩· I79₩E9	سجل تجارى / رخصة / عقدرقم
Has submitted his tax return for the period ending was granted the certificate to complete all his transpayment of the final amount due on the contract.	g on 31/12/2023 AD, and he nsactions including the	قدم إقراره عن الفترة المنتهية في ١٤٤٥/ - /١٤٤٥ هـ . وقد منح هذه الشهادة لإنهاء جميع معاملا ته بما في ذلك صرف مستحقاته النمائية عن العقود.
The Certificate is valid until 02/11/1446 AH corre	sponding to 30/04/2025	یسری مفعول هذه الشهادة حتی تاریخ ۱۴۵۱/۱۱/۱۴ هـ الموافق ۱۰۲۰/۰۶/۳۰ م

(The second of Dhu al-Qi'dah one thousand four hundred forty-six Hijri)

www.zatca.gov.sa الايعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة الالكتروني: This certificate is not valid until verified by the Authority's Website: www.zatca.gov.sa

هذه الوثيقة مستخرجة من النظام الآلي ولا تحتاج إلى توقيع ولا يعتد بهذه الشهادة إلا بعد التحقق من موقع الهيئة www.zatca.gov.sa

(الثاني من ذو القعدة ألف و أربعمائة و ستة و أربعون هجري)





Certificate No.

Issue Date

8... 1975010

1117777777

- 1EE0/1./TT

رقم الشهادة

تاريخ الاشعار

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1		
1		
	111	11

هيئة الزكاة والضريبة والجمارك Zakat, Tax and Customs Authority المملكة العربية السعودية Kingdom of Saudi Arabia

قائمة فروع المكلف **List of Taxpayer Branches**

المديئة City	إسم الفرع Branch Name	رقم سجل تجارى /رخصة /عقد CR/License/Contact Number
ينبع Yanbu	مصنع الخياط للجبس	٤٧٠٠٠١٢١٨٧
الدمام Dammam	شركة الخياط للجبس المحدودة	r-oXEEV0
الرياض Riyadh	شركة الخياط للجبس المحدودة (شركة شخص واحد)	I · I · NEVrEr



التاريـــــخ: 01/02/2025 الموافــــق: 1446/08/02 رمز الشـهادة: 91428369



شهادة

		نع الخياط للجبس	مصن	اسم المنشأة
				اسم صاحب العمل
٤٧٠٠٠١٢١٨٧	رقم السجل التجاري	٥٠٥٥٨٤	708	رقم الاشتراك
	3300	ة السعودية 21471	جد	العنوان

المجموع	عدد المشتركين غير السعوديين	عدد المشتركين السعوديين	
163	114	49	رقما
مـائة و ثلاثة و سـتون مشـتركا	مـائة و اربعة عشره مشـتركا	تسعة و اربعون مشتركا	كتابة

تشـهد المؤسـسـة العامة للتأمينات الاجتماعية بأن المنشـأة المذكورة أعلاه قد أوفت بالتزاماتها تجاه المؤسـسـة وفق البيانات المقدمة منها حتى تاريخ اصدار هذه الشـهادة، والتي تم منحها لتقديمه لأية جهة تطلبها، وهي صالحة لجميع الأغراض التي نصت عليها الفقرة (6) من المادة (التاسعة عشـر) من نظام التأمينات الاجتماعية الصادر بالمرسـوم الملكي رقم (م/33) بتاريخ 1421/9/3 هـ و المادة (العاشـرة) من نظام التأمينات الاجتماعية الصادر بالمرسـوم الملكي رقم (م/33) بتاريخ 2013) وتاريخ1445 هـ و

هذه الشهادة سارية المفعول حتى 1446/09/02 هـ.

Public عام الشهادة معتم*د*ة من صاحب الصلاحية ولا تحتاج لتوقيع أو ختم



تحقق من صحة وصلاحية الشـهادة عبر زيارة الرابط أدناه في الموقع الالكتروني للمؤسـسـة العامة للتأمينات الاجتماعية او عن طريق اسـتخدام الرمز المعرف التالي

تعد هذه الشهادة من الوثــائق الالكترونية الحـكومية الرســمية ويحظر قطيعاً تقليدها أو إدخال أي تعديلات عليها سواء بالإضـافة أو الحـذف أو التغيير في بـياناتها أو غير ذلك من أنواع التـعديل. وتعد الشهادة لاغية إذا شابها شي من ذلك. كما تعرض صاحبها للملاحقة النظامية أمام الجهات المختصة بالإضافة إلى ما يفرضه نظام التأمينات الاجتماعية من عقوبات, ولا يجوز تداول الشهادة إلا في الأغراض التي أصدرت لأجلها وففاً لأحكام نظام التأمينات الاجتماعية. والمؤسسة العامة للتأمينات الاجتماعية غير مسؤولة عن أي عملية تزوير أو تعديل تتم على البيانات الواردة فيها.



800 124 3344 gosi.gov.sa

المملكــة العربيــة السعوديــة، الرياض 12622 - 8308 حي الوزارات 3795 Kingdom of Šaudi Arabia, Riyadh 12622- 8308 Al Wizarat 3795



شهادة التوطين

رقم الشهادة 121237-33802200	تاريخ الإصدار 01/02/2025	تاريخ انتهاء الصلاحية 02/05/2025
تاريخ التحديد/التحديث	25/07/2024	
حالة الشهادة	🗞 تم التحقق	
اسم المنشأة	مصنع الخياط للجبس	
رقم المنشأة	14-32548	
رقم السجل التجاري	4700012187	
الرقم الوطني الموحد	7006547090	
مستوی نطاقات	🛑 اخضر متوسط	
معدل التوطين	% 28	



تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسبة التوطين المطلوبة وتم منحها هذه الشهادة بناء عن طلبها.

الشهادة تم إنشاؤها إلكترونياً ومعتمدة من الجهة المختصة ولا تحتاج الى ختم او توقيع

The Ministry of Human Resources and Social Development certifies that the above mentioned Establishment has achieved the required Nationalization rate and has been granted this certificate upon request.

The certificate is electronically generated and approved by the authority. It does not require any signature or stamp.







شهادة الإلتزام بحماية الأجور

رقم الشهادة 121667-61685081	تاريخ الإصدار 01/02/2025	تاريخ انتهاء الصلاحية 01/03/2025
حالة الشهادة	😵 تم التحقق	
اسم المنشأة	مصنع الخياط للجبس	,
رقم المنشأة	14-32548	
رقم السجل التجاري	4700012187	
الرقم الوطني الموحد	7006547090	



The Ministry of Human Resources and Social Development certifies that the above mentioned Establishment has achieved the required Wage Protection rate and has been granted this certificate upon request.

The certificate is electronically generated and approved by the authority. It does not require any signature or stamp.

Please note, this certificate does not guarantee that no Notes will not be applied to this establishment.

تشهد وزارة الموارد البشرية والتنمية الاجتماعية بأن المنشأة المذكورة أعلاه حققت نسبة الإلتزام بحماية الأجور المطلوبة وتم منحها هذه الشهادة بناء عن طلبها.

> الشهادة تم إنشاؤها إلكترونياً ومعتمدة من الجهة المختصة ولا تحتاج الى ختم او توقيع

يرجى الملاحظة أن هذه الشهادة لا تعفي عدم تطبيق نظام الملاحظات على هذه المنشأة



ISO CERTIFICATE



Partners in Growth

CERTIFICATE

EL KHAYYAT GYPSUM COMPANY

PO Box 3300 - Post Code 21471, Jeddah - Kingdom of Saudi Arabia

RIR certifies that the Quality Management System of the organization has been assessed and found to be in accordance with the requirements of the following standard:

ISO 9001:2015

SCOPE

Manufacturing Of Gypsum Board and Powder

EA Code- 16

Certificate No Registration Date Issue Date Reissue Due Date 1st Surveillance Date 2nd Surveillance Date Recertification Date

: 08.07.2024 : 08.07.2024 : 07.07.2025 : On / Before 07.07.2025 : On / Before 07.07.2026 : On / Before 07.07.2027

: 1774/ELK09A



amen

Certification Manager

RIR CERTIFICATION PRIVATE LIMITED

323, Towar B4, Speze J-Tech Park, Sector-49, Solma Road, Gurgeon-122618, IND Accredited by International Accreditation Services (Accreditation No. MSCB-127) West Coest, 2060 Satura Street, Salte 100 Brea, California 23821-1732 U.S.A This cartification procedures and subject to regular survailance audits.

Cartification pariod is 3 years. Verifiable at http://www.rivpert.com/cartificate-search.php or at e-mail: info@privpert.com

QMS ISO CERTIFICATE



Our Reference: CER.12. 10006.JDH, REV.0 Dated: 3rd Jan'12

Date: 23rd Dec 13

Elkhayyat Gypsum Company. P.O. BOX 3300, Jeddah 21471

Attn: Mr. Eng.Mazen khayyat

Subject: Recommendation Letter – ISO 9001:2008

Dear Sir,

Bureau Veritas-Saudi Arabia confirms that the Certification Assessment of your Quality Management System (stage-2) was performed on 21st to 24th Aug'13.

We are pleased to inform that your organization has been recommended for the Quality Management Systems certification towards ISO 9001:2008 standard and audit pack is being sent to our technical Centre for the issuance of the certificate of approval. You can expect to receive your certificate in about 2 weeks of time from this day.

I take this opportunity to congratulate you and members of your team for this achievement.

Should you need more information, please do not hesitate to contact undersigned.

Best regards

un fei Fers

V. Sankarasubramanian BL Manager – System Certification Services Bureau Veritas – Saudi Arabia



كتب جسدة:

ص،ب ١٠٩١ه - جـدة ١٢٥٢٤ - الملكة العربية السعودية تليفون ، ١٣٦٣ ٦١٢ ٦٢٦ ٣٦٦ - فأكس ، ١٣٠٨ ٢٥٢ ٢٢٦٢ س.ت ١٣٣٠ ١٧٧٥ - رقم العضوية م١٢٧٥

Jeddah Office:

ص.ب ۲۰۱۸۹ - الخبر ۲۹۹۲ - الملكة العربية السعودية تليفون: ۱۳۸۵ه/۱۳۸۱ - (مخطوط) - فاكس: ۱۳۸۱ه/۱۳۸۱ س.ت ۱۳۸۵/۱۹۹۵ - رقم العضوية ۱۲۳۰۷۹

P. O. Box 20189 - Al-Khobar 31952 - K.S.A. Tel; +966 13 845 7701 (5 Lines) - Fax - +966 13 845 7706 C. R. 2051038195 - C. C. No. 123079 مدىپ الرياض:

ص.ب ١٨٢٤ه - الرياض ١٤٦٥ - الملكة العربية السعودية تليفون : ١٦٨١٠ ١١٦ ٢٠٦٩ - - فاكس : ١٨٩٩ - ١١ ٢٠٦ س.ت ١٨٩٥ ١١٠ - رقم العضوية ٩٦٣٠٣

Riyadh Office: P. O. Box 18245 - Riyadh 11415 - K.S A Tel.: +966 11 201 6800 - Fax, +966 11 201 6899 C. R. 1010154850 - C. C. No. 96303

E-mail: bv.saudi@ae.bureauveritas.com - Website: www.bureauveritas.com

FACTORY EQUIPMENT CERTIFICATE

Grenzebach BSH GrebH Postlach 1252 36222 Bad Hersheld

Ahmed Taha Khayyat Gypsum Company El-Khayyat Commercial Center Al Tahlia Street Po.O. Box 3300 Jeddah KSA Please contact: Kurt Braun Department: 5240-Bra/ga

Telephone: Telefax: E-mail: +49-(0)6621.81-3858 +49-(0)6621.81-3495 kurt.braun@grenzebach.com

GRENZEBACH

2012-05-14_br el-khayyat, testing critéria wbp.doc

Bad Hersfeld, 14. May 2012

DIN EN 520: 2009-12

Dear Sirs,

We, Grenzebach-BSH, herewith confirm that the plasterboard production plant delivered and commissioned in April 2012 is producing plasterboards according to DIN EN 520: 2009-12.

The plasterboards fulfill the testing criteria and figures described in this DIN EN 520: 2009-12.

Faithfully yours

GRENZEBACH BSH



e-

i. V. K. Braun



C.: 5200-Akte / 5240-Bra / 5211-Be

Grenzebach	B3H GINON			
Official.	Rubil-Granabach-Dr. 1	Bark Accounts	Managing Deactor	Bend Minning
and the local second	36251 Bad Hersleit, Gemany	Convergberth AG, Augeburg, (famerly Dreadher Bank), Account No. 1 267 436 00.		
Postal Address	Postlach 12.52	Sot. Code 725 800 01. BIOS WLF T. DRES DE FF 725, IBAN DE07 7308 0001 0108 7438 00	Coult of Registration	Bat Hersfeld
	26222 Bestmanned, Germany	Deutsche Bank AG, Augeburg, Account No. 0 400 382 05.		HUB 202
Telephone	+49 (2)6621/81-3000	Son. Code 720 700:01, BIC/S WILF T. DEUT DE MM 730, IBAN DE28 7307 0001 0040 0382 00	VATIRES No:	DE 813527965
Enal	+49 (0)0821/01-00013 1400000000000000000000000000000000	UniCreat Bare AG, Frankfurt/Main Account No. 3-679 203 25, Burt. Code 903 201 91, BIC/S W1/F T, HYVE DE MM 430, IBAN DEVT 8052 0191 0967 9203 35		

CERTIFICATE BY:



MEMBERSHIP CERTIFCATE:



Membership Certificate شهادة عضوية First Class الدرجة الأولى

نشهد بأن This is to certify that شركة الخياط للجبس المحدودة (شركة شخص واحد)

امسجل لدينا Is a registered member

Unified Number	7001709711	رقم المنشأة
Date of Subscription	26/02/1430 - 2009/02/21	تاريخ الاشتراك
Expiry Date	19/06/1447 - 2025/12/10	تاريخ الانتهاء
Commercial Record/ License	4030169349	السجل التجاري / الرخصة
Release Date	26/04/1428 - 2007/05/13	تاريخ الاصدار
Expiry Date	19/06/1447 - 2025/12/10	تاريخ الانتهاء

Tes p





VISION CLI

Signature التوقيع

شهادة إلكترونية ، بمكنك مسح الرمز للتأخذ من صحة الشهادة An electronic certificate, Scan the code to check the certificate's validity

الهيئة السعودية للمواصفات والمقاييس والجودة

Saudi Standards, Metrology and Quality Organization



Riyadh Address: Al Muhammadiyah - in front of King Saud University, PO. B

3437 Riyadh 11471, KSA. Jeddah Address: Al Aziziyah, As Shafa Street, PO. B 9485 Jeddah 21413, KSA. Dammam Address: Coastal Al Kohabar, King Faisal RD, PO. B 1893 Dammam 31441, KSA

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GDL-2024-49730
84004 v1
06-25

تقریر اختبار Test Report

اسم المختبر - الادارة:		المختبرات الهندسية - ادارة الهندسة		
Laboratory - Department name اسم و بيانات المستفيد	1	شركة الخياط للجبس	موقع:	الفرع الرئيسي الرياض
Customer Name / Details حنوان المستفيد			Location	
Customer Address رقم الطلب		GDL-2024-49730	رقم العينة	84004
Order No تاريخ استلام عينات الاختبار:		13/10/2024	Sample No	
Date of Receipt of test item تاريخ اكتمال الاختبار		14/10/2024	تاريخ الاصدار:	31/10/2024
Date of Test completion date حدد صفحات التقرير :	4		Issue Date التعديلات:	لايوحد
No of Pages of Report اسم و وصف *و حالة عينات الاختبار:		الواح جبسيه	Amendment	

Name,Identity and *condition of test item

Before Test عَبْلَ الأَحْتَبَار





المواصفات السعودية Saudi Standards	ä	صفات و المقاييس و الجو د Saudi Standards, Metrology a	الهيئة السعودية للمواد and Quality Organization		GDL-2024-49730 84004 v1 06-25
Seal		Published Date 31/10/2024	Person in Charge of Report		Approval
			بدر عبدالله الحارثي	-	حسين بن مبارك السلامة
13/10/2024	:	تاريخ دخول العينة للمختبر	شركة الخياط للجبس	:	العميل
المختبرات الهندسية	:	مختبر	الواح جبسيه	:	نوع المنتج
اختبار ات خاصبة	:	الخرض من الاختبار	الواح جبسية	:	نوع العينة
مصنع الخياط للجيس	:	الصانع	2,900.00	:	التكلفة
JS10044	:	اسم العلامة التجارية	1	:	عدد الحاويات
9/25/2024	:	تاريخ الانتاج	عينة خاصة	:	طريقة سحب العينة
SAUDIARABIA	:	بلد المنشأ	101144601844196	:	رقم السداد
520	:	رقم المواصفة	13-Oct-2024		تاريخ الاستيراد
			مقاوم للحريق	:	نوع المواد
			بدون		رقم الخطاب الوارد

الظروف البيئية *Environmental Conditions

		الرطوبة (%) Humidity			الضنغط Pressure	Tempe	درجة الحرارة (C° Temperature	
					-		1.2	
ل التطابق Conform Probabilit	ار المطابقة مدی ity Conformit y.Pc Assessmer	حدود المطابقة قر y Conformity Limii nt (T., Tu)	لقیلس t SII	النتيجة وحدة ا Jnit Result	الارتياب الموسع Expanded Uncertainty U	طرق الاختبار Test Method	اسماء الاختبارات Test Name	م
	ق Accept	مطاب		PASS		SASO_ASTM_ C1396/2017	لفحص الظاهري	1
	ق Accept	مطاب	m	m 12.49		SASO_ASTM_ C473_2017	فياس السمك	i 2
	ق Accept	مطاب	m	m 2399.93	3	SASO_ASTM_ C473_2017	فياس الطول	i 3

نتائج التقرير تخص هذه العينة فقط كما تم استلامها من العميل.

The results included in this report are relevant only for the sample as received from the customer.

لا يتم استنساخ هذا التقرير بشكل جزئي دون الحصول على الموافقة من المختبر. This report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature are not valid.

تقارير الأختيار بدون التواقيع تكون غير معتمده.

Testing reports without signature are not valid.

نتائج الاختبار و / او القياس، وقيم الارتياب مع مستوى الثقة وطرق الاختبار موضحة في الصفحات التالية التي تشكل جزءا من هذا التقرير. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.





Saudi Standards, Metrology and Quality Organization

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مدى التطابق	قرار المطابقة	حدود المطابقة	وحدة القياس	النتيجة	الارتياب الموسع	طرق الاختبار	اسماء الاختبارات	2	
Conformity Probability, Pc	Conformity Assessment	Conformity Limit (Tt, Tu)	SI Unit	Result	Expanded Uncertainty U	Test Method	Test Name	,	
	مطابق Accept		mm	1200		SASO_ASTM_ C473_2017	قيلس العرض	4	
	مطابق Accept		Ν	619.98		SASO_ASTM_ C473_2017	تحديد معامل الكسر بالانحناء بالتعامد	5	
	مطابق Accept		Ν	226.67		SASO_ASTM_ C473_2017	تحديد معامل الكسر بالانحناء بالتوازي	6	
	مطابق Accept		Ν	1.62		SASO_ASTM_ C473_2017	مقاومة سحب بالمسمار	7	
	مطابق Accept		Ν	66.50		SASO_ASTM_ C473_2017	قياس صىلادة الوسط	8	
	مطابق Accept		Ν	59.38		SASO_ASTM_ C473_2017	قياس صلادة النهاية	9	
	مطابق Accept		Ν	61.96		SASO_ASTM_ C473 2017	قياس صلادة الحواف	10	

* "marked testing are included within accreditation scope"

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الهيئة السعودية للمواصفات والمقاييس والجودة





*الأراء والتفسيرات: لايوجد

Opinions & Interpretation

*مرفق

*قرار تقييم مطابقة المنتج:

Conformity Assessment

- ا التائج الاختبارات التي أجريت على الحينة مطابقة للمواصفة القياسية رقم SASO ASTM C1396
 - حساب مدى التطابق في كل اختبار موضح بالجدول.

The conformity probability for each test is presented in the table.

The tolerance limits for each test are given in the table.

*وصف قاعدة قرار تقييم المنتجا:

*Definition of Decision Rule

- تم تطبيق قاعدة القرار و حساب مدى تطابق المنتج طبقا المواصفة الدولية ايزو 4-88. تعتبر الحينة مطابقة للمواصفة اذا تساوى او تجاوز مدى التطابق 50 %
 The conformity assessment and the evaluation of conformity probability were performed in accordance with ISO/IEC Guide 98-4. The sample is considered in conformity with the specification if Pc >= 50 %.
 - حدود المطابقة لكل اختبار موضحة بالجدول.
 - يمكن حساب المخاطر في قبول العينة لكل اختبار باستخدام[Pc-100]%

The risk assessment in accepting the test item for each test can be evaluated as [100-Pc]% • يتم حساب مدى التطابق للاختبارت الكمية نقط الاختبارات الكيفية يتم كتابة الملاحظات - ان وجدت - على عينة الاختبار في هذا الجزء من التقرير. The conformity probability is evaluated only for quantitative tests. For qualitative test, the appropriate notes/recommendations (if any) are given in this part of the report.

*الاضافات او الانحر افات او الاستثناءات عن طريقة الاختبار:

*Additions to, deviations, or exclusions from the test method

لا يحق لصاحب العينة المطالبة بالعينات الاتلافية والعينات التي تجاوزت فارة حفظها اكثر من 90 يوم من تاريخ اصدار هذا التقرير.

The sample owner isn't entitled to claim destructive samples and samples whose holding period exceeded 90 days from date of issuance of this report.

تم اجراء جميع الاختبارات بمقر الهيئة السعودية ما عدا الاختبارات الموضحة بعلامة "+" تم اجراوها عن طريق التعاقد من الباطن.

All tests were conducted at SASO, except tests marked with "+" were subcontracted.

تم حماب الارتياب طبقا للمواصفة الدولية ايزو 3-98 مع استخدام معامل تغطية (k=2)

The evaluation of uncertainty was carried out in accordance with ISO Guide 98-3:2008 (GUM-1995) with coverage factor k=2 معامل القدرة الحسابية (Cp) لجميع مختبرات الهيئة السعودية للمواصفات لا يقل عن 1.33 تحقيقا لتوصيات المواصفة الدولية (SO 7870-2)

The measurement capability indexes C_p for all SASO laboratories are not less than 1.33 following the recommendations of ISO 7870-2.

 To view more about the decision rule used to Conformity of sample with requirements or specifications, Please enter to the link



 للاطلاع اكثر عن فاعدة القرار المستخدمة في مدى مطابقة الجنة للمتطلبات، ارجو الدفول على الرابط الثلي

OUALITY CERTIFCATE:



Containerboard

Gusco Handel -G. Schürfeld + Co. GmbH Mönckebergstraße 31 D-20095 HAMBURG

Orderi

446253

Quality certificate

Product: SpreeGips Ivory 190 g/m2 width: 125,5 kg: 65.816 Product number: 761/760 average standard target deviation value quality parameter unit 0,12 10 10,07 Moisture / QLS \$ 189 190 g/m2 - -Grammage g/m2 22 2 25 Cobb 60 top side g/m2 21 1 20 Cobb 60 gypsum side ٩ 57,9 0,6 60 ISO Brightness 215 Tensile strength MD N 225 4 7 65 66 Air permeability Gurley 8 0,2 3,26 3,3 MD/CD-orientation swim-test (60% wet) 120 90 - -

Rieger Spremberg , Spremberg, 09.05.2012

Signature of Quality-Management

Hamburger Bioger Geslah & Co. KG

Paplerfabrik Epvemberg An der Helde B5. D-03130 Spremberg Tel. +49-(0)3554-378-0 . Fax +49-(0)3564-378-21000

Bayerische Hypo- und Vereinsbank AG Traunstein Konto: 372 907 959 - 85,2" 710 221 92 IBAN: DE27710221820372907958 BIC: HYVEDEMM453 Paplartabrik Trostbarg Pilegarstrafte 4 . D-83308 Trostbarg Tal. + 49-(0)8621-804-0 . Fax +49-(0)8621-804-185

UsiCredit Bank AG Traumtein Konton: 13 475 007 - BLZ: 700 202 70 IBAN: DE 10 7002 0270 0013 4750 07 BIC: HYVEDEMISOOX Geschäftslührer: Hansld Ganster, Andreas Noss, Kardige Bister 1 vora 1 Rieger GmbH. Troutberg Registergericht Traumstein, HRA 2339, HRB 3765 USI-ISNN:: DE273257325 Stevenummer: 163/162/12409 office.rieger Bhamburger-containerboard.com www.hamburger-rieger.com

OUALITY CERTIFCATE:



Hamburger Austria

Gusco Handel -G. Schürfeld + Co. GmbH Mönckebergstraße 31 D-20095 HAMBURG

Qualitätszertifikat

Auftrag: 446224

Artikel: Spree Gips Grey Artikelnr.: 7880/780	180 g/m2	Breite:	118,0 Kg:	88.190
Qualitätsparameter	Einheit	Istdurch- schnitt	Standard- Abweichung	Sollwert
Flächengewicht/Labor	g/m2	179	2	180
Feuchte/Labor	4	10,85	0,11	11
Verhältnis L/Qu		2,39	0,04	2,5
Bruchkraft L	N	160	3	150
Cobb 60 Gipsseite	g/m2	20	2	20
Luftdurchlässigkeit Gurley	sek	44	3	65
Schwimmtest 60% Durchf.	min	120		90
Cobb 60 Sichtseite	g/m2	1.9	2	20
Bruchkraft Q	N	67	1	67

Dieses Qualitätszertifikat wurde automatisch erstellt! .

Es beinhaltet die Laborergebnisse für die o. a. Lieferung bzw. für den jeweiligen Lieferzeitraum.

PRODUCTS CATALOGE





EL KHAYYAT Plaster

Boards A range of performance and specialist plasterboards, including solutions for sound, fire and thermal applications.

EL KHAYYAT Metal

Profile A range of strong, lightweight and economic metal framing solutions for drylining.



EL KHAYYAT Fixtures

screws and anchors specifically designed for use with plasterboard.

EL KHAYYAT Finishing Complete range of finishing products seamless taping and jointing for two and three coat applications

PO Box 3300 - Post Code 21471, Jeddah - Kingdom of Saudi Arabia - www.el-khayyat.com

"EVERY MILESTONE HAS A HISTORY"

Since the inception of El-Khayyat Gypsum Factories, we have successfully forged a remarkable reputation for our company within the Kingdom and the region as a leading producer and exporter of gypsum products.

We formulate our products using high grade raw material which is procured from our own mines and trustworthy vendors of the market.

Due to their durability, accurate composition and fine finish, our products are extensively used for various industrial and residential applications. In our quest to meet the market demand, a team of dedicated professionals and modern yet high-tech infrastructure, we have been able to offer a superior range of gypsum at competitive prices within the postulated time frame. We have been able to perform exceptionally well in this highly competitive market. Our values are central to our success! We remain committed to offering premium quality products that comply with the highest national and international standards. In the very near future, El-Khayyat Gypsum will unveil many of its new offerings to the market and will continue to strive to maintain its reputation as a leading supplier of quality Gypsum

OUR VISION

El-Khayyat Gypsum Factories is recognized nationally and regionally as a world class producer of premium quality gypsum board, a successful organization and are liable partner in nation building.

OUR MISSION

To serve the global building needs of its valued customers and maintaining the most efficient and progressive company in Gypsum producing business backed by a motivated, resourceful and excellent dedicated team to the continuing expansion of our operation and production. El-Khayyat Gypsum Factories will succeed by providing a diverse range of highest quality gypsum board from our state-of-the-art Facilities and resources, backed by our technical and intellectual know-how.

OUR QUALITY

We are committed to providing solution to the construction industry which exceed customer's expectations We aim to manufacture the drywall partition and ceiling system for high quality feature and associated benefits safety customer service and added value with the latest technology Advance knowledge compliance with the relevant standards specification



Sustainability

Our aim is that the manufacture and use of our products do not significantly impact on the environment. Our products and systems provide comfortable, healthy and secure living and working spaces for the occupiers and end users.

In order to provide sustainable construction solutions, we aim to:

- Investigate methods of continuous environmental improvement.
- Produce bespoke lengths of product to minimise wastage produced onsite.
- Provide flexible tailor made solutions to the end user.
- Recycle gypsum board waste during the construction phase.
- Comply with relevant environmental laws and regulations.

We maintain a long-standing commitment to our employees, customers and communities to reduce our impact on the environment.

Environment friendly :

El Khayyat gypsum have always taken the Environment as its first concern and ensures that all materials used in their product can safely be recycled. Our products are even save to be used in agriculture as its made from pure gypsum rocks.

We also take the same measure in Gypsum Board production and ensure that all the materials as echo friendly.

When producing our gypsum boards we insure top quality with all natural ingredients as if we are producing them to our own homes .

LEED :

A waste management plan been implemented .

Insure that all our process complies with the LEED requirements .

GYPSUM BOARD PRODUCT


DRY WALL PRODUCTS

Т

	Gypsum Board	
	Regular (RG)	19
	 Moisture Resistant (MR) 	19
	Fire Wall (FW)	20
	 Moisture Resistant & Fire Wall (MRFW) 	20
	→ IMPACT	20
	IMPACT Mold & Moisture Resistant	20
	(IMPACTMMR) Glass Mat (GM)	21
	Accessories	
	Metal Profiles	30
	Components	32
_	Insulation	33
	Jointing Tape	41
	Jointing Filler	42
	Sealant	43

DRY WALL SYSTEMS

Partition System

System Components: Gypsum Plasterboards, Finishing Components, Fixing Components, Insulation, Jointing Filler, Jointing Tape, Metal Profiles, Sealant.	50
Ceiling System	
 System Components: Gypsum Plasterboards, Finishing Components, Fixing Components, Insulation, Jointing Filler, Jointing Tape, Metal Profiles, Sealant. 	59
Liner System	
System Components: Gypsum Plasterboards, Finishing Components, Fixing Components, Insulation, Jointing Filler, Jointing Tape, Metal Profiles, Sealant.	64
Cinema System	
 System Components: Gypsum Plasterboards, Finishing Components, Fixing Components, Insulation, Jointing Filler, Jointing Tape, Metal Profiles, Sealant. 	64

GYPSUM BOARD

Technical Properties

•

6

Sound Protection

Fire Rating

Mold Resistant

Moisture Resistant

Impact Resistant

Water Resistant

Applicable Standards

ASTM Standards EN / BS Standards Regular (RG) Moisture Resistant (MR) Firewall (FR)

Moisture Resistant and Fire wall (MRFR)

IMPACT

IMPACT Mold & Moisture Resistant (IMPACTMMR)

Glass Mat (GM)

Regular (RG)

EL-KHAYYAT Regular Gypsum Board is a plasterboard used for lining interior ceilings, partitions and wall linings providing signific properties of durability, stability, fi re and acoustic performances. composed of a standard gypsum core encased in high strength, quality liner papers.

N	Techn	ical Descri	otion		Ту	pical Value	S
	Thickness (mm)	Edge Profile	Width (mm)	Length (mm)	Thickness (mm)	Weight (Kg/m ²)	R-Value (m² K/W)
	0 10 5 15 16		1000	2400	12.50	8.80	0.06
8	9,12.5,15,16 Board Color - Face Color: Product Standards: ASTM	IE, SE Ivory C 1396/ C139	6M : EN 520	Z400 TypeA	15	10.50	0.08

Moisture Resistant (MR)

EL-KHAYYAT Moisture Resistant Gypsum Board plasterboard has all the qualities of Standard Core plasterboard plus the addition of being moisture resistance. This makes EL-KHAYYAT MR board an ideal choice as a moisture resistant substrate for use in wet areas such as kitchens and bathrooms, behind sinks and basins and in shower cubicles. Also designed as a substrate for ceramic tiles.

	Tech	nical Desci	ription		Ту	pical Value	5
	Thickness (mm)	Edge Profile	Width (mm)	Length (mm)	Thickness (mm)	Weight (Kg/m ²)	R-Value (m² K/W)
	. ,		. ,		12.50	9.40	0.06
	9,12.5,15,16	TE, SE	1200	2400	15	11.30	0.08
🔥 🚱 👔	Board Color - Face Colo Product Standards: AST	r: Green M C 1396/ C13	396M ; EN 5	20 Type A & H1			

Fire Rated (FR)

EL-KHAYYAT Fire Rated Gypsum Board plasterboard has all the qualities of Standard Core plasterboard plus the addition of having superior fi re resistance and higher strength due to the boards special core properties. This makes Boral FireRated ideal for plasterboard systems which require high levels of fi re resistance.



 \otimes

Techni	cal Descrip	otion		Ту	s	
Thickness (mm)	Edge Profile	Width (mm)	Length (mm)	Thickness (mm)	Weight (Kg/m ²)	R-Value (m² K/W)
9,12.5,15,16	TE, SE	1200	2400	12.50 15	10.50 12.60	0.05 0.06



Product Standards: ASTM C 1396/ C1396M Type X ; EN 520 Type I & F

Fire Rated Moisture Resistant (FRMR)

EL-KHAYYAT Moisture Resistant & Fire Rated Gypsum Plasterboard have the inherent properties of Fire Rated plasterboards and accrued Moisture Resistant plasterboards. This property is due to specific additives such as water repellents agents in the noncombustible, mechanically stable, and fire retarding gypsum core. This thus provides two combined advantages in a single board. The core of the board is encased in heavy duty Kraft paper liner on either side.



Technical Description Typical Values Thickness Weight **R-Value** Thickness Edge Width Length (Kg/m²) (m² K/W) (mm) Profile (mm) (mm) (mm) 12.50 10.60 0.05 9,12.5,15,16 TE. SE 1200 2400 12.70 0.06 15

Board Color - Face Color: Green | Reverse Color: Pink

Product Standards: ASTM C 1396/ C1396M Type X ; EN 520 Type I, F & H1

Gypsum Boards

IMPACT

EL-KHAYYAT IMPACT Gypsum Boards has increased board thickness plus additional core qualities making it suitable for installation with partitions and wall linings that require superior impact performance.

	Techn	Technical Description				Typical Values			
	Thickness (mm)	Edge Profile	Width (mm)	Length (mm)	Thickness (mm)	Weight (Kg/m ²)	R-Value (m² K/W)		
					12.50	11.10	0.05		
	12.5,15	TE, SE	1200	2400	15	13.10	0.06		
8 🚱 🗾	Board Color - Face Color: Y Product Standards: ASTM	Yellow C 1396/ C1396	iM Type X : E	EN 520 Type D.	F. I & R				

IMPACT Mold and Moisture Resistance (IMPACTMMR)

EL-KHAYYAT IMPACT Mold and Moisture Resistant Gypsum Plasterboards are made up of non-combustible, mechanically stable and fire retarding high density, moisture resistant, mold and mildew resistant gypsum core, encased in very heavy-duty Kraft paper liner on either side. This special purpose gypsum plasterboard is designed for use in walls or partitions that require superior impact strength, breaking strength, mold and moisture resistance, fire resistance and sound insulation properties, when compared to all other types of gypsum plasterboards. This is used for internal applications.

Width

(mm)

1200

Technical Description

Edge

Profile

TE, SE



Board Color - Face Color: Yellow

Thickness

(mm)

12.5,15

Product Standards: ASTM C 1396/C 1396M Type X; EN 520 Type H1, D, F, I, & R (BS 1230 Part 1 - Type 3,5)

Length

(mm)

2400

Glass Matt (GM)

EL-KHAYYAT Glass Mat Gypsum Boards are a specially developed product for external applications. These boards are moisture resistant, water resistant and fire resistant due to the special additives in the gypsum core, that is sandwiched between the glass mat liner on both sides.



Techn	ical Descrip	otion		Typical Values				
Thickness (mm)	Edge Profile	Width (mm)	Length (mm)	Thickness (mm)	Weight (Kg/m ²)	R-Value (m² K/W)		
12.5	TE, SE	1200	2400	12.50	10.70	0.07		

Typical Values

Weight

(Kg/m²)

11.20

13.30

Thickness

(mm)

12.50

15

R-Value

(m² K/W)

0.05

0.06



Board Color - Face Color: Blue Product Standards: ASTM C 1177/ C1177M Type X ; EN 15283 Part 1



Accessorie

Metal Profiles

Hot Dipped Galvanized Steel Galvanization Z180 / Z 275 / AZ 150

Fixing Components Insulation

Jointing Tape

Joint Filler

Sealant

Finishing Components

Applicable Standards

ASTM Standards

EN / BS Standards

Metal Profiles

Deflection Head Track U Track C Stud J Runner- DHT J Runner WallTrack E Stud CH Stud Furring Channel Main Channel Wall Angle Flat Strap

Fixing Components Wedge Anchors Hummer Screw Wafer Head Screws Self Tapping Screws Self Drilling Screws L Bracket Threaded Rod Acoustic V-brace

Insulation Glass Wool Rock Wool

Jointing Tape Fibre Jointing Tape Metal Tape Paper Tape

Joint Filler Smartmix JC

Sealant Fireblock Sealant

Finishing Components Corner Bead Shadowline Angle Stopping Bead

Deflection Head Track

The Deflection Head Track Galvanized metal U shaped deep flange track used with C Studs to provide steel frames for plasterboard partitions and wall linings that require a deflection head allowance or exceed 4.2m in height.



System Application Partition System Cinema System Liner System Specification Coating: AZ150 & Z275 Zinc - AluminiumAlloy Steel Grade: G300

Product Description										
Thickness* (mm)	Width (mm)	Length (mm)	Flange (mm)	Packing						
0.60	52,66,72,92,102,152	3000	50	10						
0.80	52,66,72,92,102,152	3000	50	10						

* Other thickness available upon request

U Track

U Track Galvanized metal U shaped tracks used with C Studs to provide steel frames for plasterboard partitions and wall linings





	Product Description						
Thickness* (mm)	Width (mm)	Length (mm)	Flange (mm)	Packing			
0.55	52,66,72	3000	32	10			
0.60	52,66,72,92,102, 152	3000	32	10			
0.80	52,66,72,92,102, 152	3000	32	10			
0.90	52,66,72,92,102,152	3000	32	10			
	Thickness* (mm) 0.55 0.60 0.80 0.90	Product Desc Thickness* (mm) Width (mm) 0.55 52,66,72 0.60 52,66,72,92,102,152 0.80 52,66,72,92,102,152 0.90 52,66,72,92,102,152	Product Description Thickness* (mm) Width (mm) Length (mm) 0.55 52,66,72 3000 0.60 52,66,72,92,102,152 3000 0.80 52,66,72,92,102,152 3000 0.90 52,66,72,92,102,152 3000	Product Description Thickness* (mm) Width (mm) Length (mm) Flange (mm) 0.55 52,66,72 3000 32 0.60 52,66,72,92,102,152 3000 32 0.80 52,66,72,92,102,152 3000 32 0.90 52,66,72,92,102,152 3000 32	Product Description Thickness* (mm) Width (mm) Length (mm) Flange (mm) Packing 0.55 52,66,72 3000 32 10 0.60 52,66,72,92,102,152 3000 32 10 0.80 52,66,72,92,102,152 3000 32 10 0.80 52,66,72,92,102,152 3000 32 10		

* Other thickness available upon request

C Stud

The C Studs are the vertical framings used for Partition and Liner Systems with a friction fit between bottom and top tracks. They are very easy to install and can be tailored in accordance to a project's requirements. They are specially designed to accept for one layer and multi layer Gypsum Plasterboards.



System Application	Product Description							
Partition System Liner System	Thickness* (mm)	Width (mm)	Length** (mm)	Flange (mm)	Packing			
Specification	0.55	50,64,70	3000	33.5/35.5	10			
Coating: AZ150 & Z275	0.60	50,64,70,90,100	3000	33.5/35.5	10			
Zinc - AluminiumAlloy Steel Grade: G300	0.80	50,64,70,90,100,150	3000	33.5/35.5	10			
	0.90	50,64,70,90,100,150	3000	33.5/35.5	10			



Note: * Available in other thicknesses 1.0, 1.5, 2.0 ** Available in customized lenghts

J Runner DH Track

J Runner - Deflection Head Track (DHT) is commonly used as a wall track for the top fixing of the Shaftwall System. The sections provide a friction fit for the stud and also provide a slip joint to allow any movement of the structure.



System Application		Pro	oduct Des	cription	
Shaftwall System	Thickness	Width	Length	Flange	Packing
Specification	(mm)	(mm)	(mm)	(mm)	
Coating: AZ 150 Zinc- Aluminium Alloy Steel Grade: G300	0.60 0.80	64,102, 152 64,102, 152	3000 3000	75x50 75x50	10 10

* Other thickness available upon request

J Runner Wall Track

J Runner Wall Track is commonly used as a wall track for the bottom fixing of the Shaftwall System. Track sections are normally 3000 mm in length and should be fixed at not more than 600 mm centers.



System Application	Product Description							
ShaftwallSystem	Thickness	Width	Length	Flange	Packing			
Specification	(mm)	(mm)	(mm)	(mm)	-			
Coating: AZ 150 Zinc-Aluminium Alloy	0.80	64,102, 152	3000	57 x 25	10			
Steel Grade: G300	0.6	64,102.152	3000	57X25	10			

* Other thickness available upon request

E Stud

The E Studs are extremely light in weight and are used for starter studs, intersections, door openings and end studs. A 25 mm gaps between the flange allows friction- fit contact for the 25 mm Core Board as shaft liner



System Application **Product Description** Shaftwall System Thickness Width Length Packing (mm) (mm) (mm) Specification Coating: Z180 Zinc 0.55 64,102, 152 3000 10 Steel Grade: G2 3000 0.6 64.102.152 10

* Other thickness available upon request

CH Stud

The CH Studs are specially designed for Shaftwall Systems, whereby access is only via one side, such as those commonly found in lift shafts, stairways and garbage shoots. The CH Studs are designed to provide friction-fit contact for 25 mm Core Board as shaftliner. CH Studs normally space at every 600 mm to suit the width of the Core Board panel.



System Application Shaftwall System

Specification Coating: Z180 Zinc Steel Grade: G2

	Product Description		
Thickness (mm)	Width (mm)	Length (mm)	Packing
0.55	64,102	3600	10
0.60	64,102	3600	10
0.90 * Other th	64,102, 152	3600	10 guest

Main Channel

Main Channel sections are cold roll formed from zinc coated steel strip is the primary member (carrying Channel) for Conventional Ceiling metal framework. This is suspended from the roof with wire hanger, adjustment clip and channel hanger.



System Application		Product Description		
Ceiling System Cinema System	Thickness (mm)	Width (mm)	Length (mm)	Packing
Specification	0.50	38x12x12	3000	10
Coating: Z180/Z275 Zinc	0.6	38x12x12	3000	10
Steel Grade: CS-A,B	0.55	38x12x12	3000	10
	0.80	38x12x12	3000	10
	0.90	38x12x12	3000	10
	* Other thickne	38,51,64x12x12 ess available upc	3000 on request	10

Furring Channel

Conventional Furring Channel is the secondary member for ceiling metal framework. This is fixed to the main channel with Wafer head screws through the flange. The gypsum boards are screwed to furring channel.



System Application Ceiling System Cinema System

Specification Coating: Z180/2275Zinc Steel Grade: CS-A,B

Product Description

Thickness (mm)	Width (mm)	Length (mm)	Packing
0.50	64x35x23	3000	10
0.55	64x35x23	3000	10
0.60	64x35x23	3000	10
0.80	64x35x23	3000	10
0.90	64x35x23	3000	10
* Other thic	kness available	e upon request	

W Angle

Wall Angle is the perimeter member for ceiling metal framework. This is fixed to the wall.



System Application Ceiling System

Specification Coating: Z180/Z275 Zinc Steel Grade: CS-A,B

Product Description			
Thickness (mm)	Width (mm)	Length (mm)	Packing
0.50	25x25	3000	10
0.55	25x25	3000	10
0.60	25x25	3000	10

0.90

* Other thickness available upon request

Flat Strap

The Flat Strap are the horizontal member of the Ceiling / partition metal framework. This is used primarily to back up the hori- zontal cut joints and also for lateral bracing. This also includes to provide support for seismic cross bracing and as backing strip for the fixation of Access Panel to the Ceiling / Partition system.

Constant State	

System Application Ceiling System, Partition system & Liner System	Product Description		
Specification Steel Grade: AZ150 Zinc- Aluminum	Width (mm)	Thickness (mm)	Length (mm)
Coating / Z275 Zinc Coating ASTM	50	0.55	3000
R7927 A31M A033	60	0.6	3000

90





3000



Wedge Anchors

EL-KHAYYAT Galvanized steel 6mm diameter anchor made for multiple use for non-structural cracked and un-cracked concrete.



System Application Drywall System

Specification Standard Compliance: DIN 18168

H	ummer	Screw

EL-KHAYYAT Hammer Fixing Screw designed for push-through installation. Suitable for concrete, brick, sand-lime brick, hollow sand-lime brick, hollow lightweight concrete block, lightweight concrete block, aerated concrete block.



Wafer Head Screws

PLUG: Dolyamide (Nylon) PA Polypropylene PP NAIL: Zinc electroplated carbon steel. Zinc coating thickness min 5µm.

FX-L – Countersunk version FX-C – Cylindrical version Product Description

Product Description

Size 100

Size (mm)

6 x 40

Packing (Pcs) 1000



Heavy duty drill point wafer head screw with head diameter of 11 mm. These screws are self drilling framing screws for thicknesses up to 2.5 mm. Heavy duty self drilling Wafer Head Screws are used for rapid power attachment of a steel framing member to another.



System Application All Drywall Systems

Specification Standard Compliance: ASTM C 1002 **Product Description**

Size M4.2 x 13 DP Packing (Pcs) 1000



Packing (Pcs)

100

FIXING COMPENENT

Self Tapping Screws

-

Heavy duty self tapping bugle head screw with head diameter of 8 mm, are self tapping fasteners for multiple layer drywalls, insulation and accessory mountings on steel structures up to 0.8 mm thickness.

A STATISTICS OF	System Application	Product D	Description
dr.	Drywall System	Size	Packing (Pcs)
Million of	Specification	M3.5 x 25 ST	1000
×	Standard Compliance:	M3.5 x 35 ST	1000
	ETA-04/0026	M3.5 x 45 ST	1000
		M3.5 x 55 ST	1000
A COLORADO		M4.2 x 70 ST	1000

Self Drilling Screws

EL-KHAYYAT Self Drilling Screw for attaching plasterboard to thick gauge metal.

System Application



System Application	Product Description		
Drywall System	Size	Packing (Pcs)	
Specification	M3.5 x 25 SD	1000	
Standard Compliance:	M3.5 x 32 SD	1000	
ETA-04/0026	M3.5 x 42 SD	1000	
	M3.5 x 50 SD	1000	
	M4.2 x 70 SD	1000	

Product Description

L Bracket

The L Bracket is a simple rigid structure in the shape of an L, one arm fixed to a vertical (Stud) surface, the other projecting horizontally fixed to the support such as Wall, Ceiling or Slab.



Applicable for Partition & Liner System		
Specification Standard	Size	Packing (Pcs)
Compliance: ASTM C	50 x 50 x 1.5	100
1002	75 x 75 x 1.5	50

Threaded Rod

The Threaded Rods are designed to be used in high tension due to being relatively long rods and being threaded. They are used as a ceiling suspension by being fixed to hard point on one end such as soffit of concrete slab/beam or steel structure with appropriate fasteners and ceiling frame on the other.



System Application Ceiling System

Specification Coating: AZ150 Zinc - Aluminum Alloy Steel Grade: G300

Product Description

Thickness (mm)	Length (mm)
6	2000

Phoenic Hanger

The Phoenic Hangers are strong brackets designed such that one of the horizontal part presents an inserted vibrational rubber part. This disposes an internal threading for a 8 mm threaded rod which in turn provides an efficient vibration break even at low frequencies, separating acoustically the structure from the ceiling.



System Application Ceiling System Product Description Sound block Ceiling Component

Acoustic V-brace

The Acoustic V-brace is a specially engineered product for bracing twin frame Drywall partitions. V-brace made with Spring steel to optimize acoustic performance on the Dry Wall System.



System Application Applicable for Partition & Liner System

Specification Standard Compliance: ASTM C 1002

Product Description

Sound Isolation Wall Component Size 103 x 40 x 1

Glass Wool

EL-KHAYYAT Glass Wool is a thermal and acoustical insulation in the form of a flexible blanket manufactured from inorganic glass mineral wool bonded by a thermosetting polymer resin binder. It is used as an integral part of EL-KHAYYAT Partition, Ceiling or Wall Lining to enhance the sound insulation or the thermal insulation of the system.



System Application All Drywall Systems

Specification Standard Compliance: ASTM C553 Type 1 and 2 ASTM C136 ASTM C612

Product Description			
Thickness (mm)	Density (Kg/m3)	Packing (m)(Roll)	
50	12, 16, 24	1.20 x 20	
75	16, 24	1.20 x 10	

Rock Wool

Rock Wool* is a stable insulation material manufactured from various types of diabase rock, mainly basalt of specific prede- termined chemical compositions, which is melted at super high temperature in a technically advanced but simple process. The resulting natural silicate is drum spun at very high speeds to produce 'hair-fine' inert fibers that are bonded together with a special thermosetting resin and impregnated with special additives.



System Application All Drywall Systems except **Cinema System**

BS 476 : (parts 4), For Fire

Thickness (mm) Density (Kg/m3) 50,75,100

Product Description

40,48

Packing (m)(Slab) 1.20x0.60

Specification Standard Compliance: BS 874 : 1986 - For Thermal Conductivity

Fibre Jointing Tape

The Fibre Jointing Tape is a self-adhesive tape with fine and strong fiber glass mesh. Its unique cross-fibre construction resists stretching to prevent cracking in drywall joints.



System Application All Drywall Systems except Cinema System

Product Description		
Width (mm)	Length (Roll)	Packing (Carton)
50	90	24

Metal Tape

The Metal Tape is a cross-fibre tape with heat bonded electro-coted steel strips for protection of irregular external corner angles or where rigid angle beads are not suitable.



System Application Partition System

	I
Width (mm)	

Product Description

30

50

Length (Roll) Packing (Carton) 10



Paper Tape

The Paper Tapes are good performing, however, not as good when compared to the Fibre Jointing Tapes. Once the Jointing Compound is applied appropriately both beneath and above the tape, then good results can be achieved.



System Application All Drywall Systems

Product Description		
Width (mm)	Length (Roll)	Packing (Carton)
50	75	20

Smartmix JC

EL-KHAYYAT Smartmix JC is a professional, air-drying, lightweight full taping and jointing compound. Supplied ready-mixed



System Application All Drywall Systems

Specification Standard Compliance: ASTM C 475 Product Description All Purpose Ready Mix Jointing Compound Packing: 20 Kg /Bucket

SEALANT

Fire Acoustic Sealant

Fire acoustic sealant (Hilti CP 606) Sealant is a low modulus, non-slumping, PSA Composite sealant suitable for Fire & Acoustic rated constructions. It is halogen free and isocyanate free for safer use.



System Application All Fire & Acoustic rated drywall Systems **Product Description**

Fire and acoustic Sealant 900 g /Sausage

> Paking (Box) 10 Sausage perbox

Corner Bead

The Internal Corner Beads are ideal for a quick and easy finishing for your internal corners. The beads are available in a variety of standard and customized sizes.



Specification: Standard Compliance: ASTM C 1047 Coating: AZ150 Zinc-AluminiumAlloy Steel Grade: G300 Material: Galvanized Steel

Product Description

Туре	Dimension (mm)	Length (mm)
90 ⁰	30x30	3000

Shadow Angle

Wall Angle Shadow Line steel shadowline wall angle has a 15mm Face x 19mm upstand and a 9mm x 9mm recess designed for a perimeter finish for suspended ceilings.



Specification: Standard Compliance: ASTM C 1047 Coating: AZ150 Zinc-AluminiumAlloy Steel Grade: G300 Material: Galvanized Steel

Product Description

Dimension	Length
(mm)	(mm)
15x19x9	3000



Stopping Bead

The Stopping Angles have a perforated, recessed edge and are used where the edge of the building board is not exposed and where the fitting of a Stopping Bead would be difficult. The Stopping Angle is fixed to the sheet of building board with an adhesive or staples, with the finishing coats bonding into the building board and feathering up to the bead nib. Ideally used for door jambs and window returns.



Specification:
Standard Compliance:
ASTM C 1047
Coating: AZ150
Zinc-Aluminium Alloy
Tensile Strength: G 300
Material: Galvanized Steel

Product Description

Thickness (mm)	Length (mm)
10	3000
13	3000
116	3000



Ceiling Systems

System Series

- Conventional Ceiling GC Series
- Sound Stop Concealed Ceiling -GSS

Applicable Standards

ASTM Standards

EN / BS Standards

Metal Profiles

Deflection Head Track U Track C Stud J Runner- DHT J Runner WallTrack E Stud CH Stud Furring Channel Main Channel Wall Angle Flat Strap

Fixing Components Wedge Anchors Hummer Screw Wafer Head Screws Self Tapping Screws Self Drilling Screws L Bracket Threaded Rod Acoustic V-brace

Insulation Glass Wool Rock Wool

Jointing Tape Fibre Jointing Tape Metal Tape Paper Tape

Joint Filler Smartmix JC

Sealant Fireblock Sealant

Finishing Components Corner Bead Shadowline Angle Stopping Bead

CEILING SYSTEMS

Conventional Ceiling - GC Series



System Description:

EL-KHAYYAT Ceiling solutions - comprising of a grid of completely concealed suspended metal frames (void of wire hangers and wire-clips) lined with gypsum platerboards, with its joint treated (taped and filled) to achieve the even, smooth and homogenous surface to receive paint or further decoration.

Light weight and versatile

Supports in concealing cableways, ducts etc Quick and Easy to install Cost effective Reduced Project completion time

Performance

Fire protection - up to 2 hrs

Sound Insulation - up to 70 dB (when used under a concrete floor)

Enhancement of fire & acoustic performance can be achieved by increasing the number of layers of plasterboards Filling the cavity with insulation on the back of the ceiling enhances of acoustic performance

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be selected - RG for general applications; MR for humid & aerated area application; FW for enhanced fire resistance; etc.
Perimeter support	Wall angle fixed at the perimeter on which Furring channel at 90° is supported. The plasterboard is screw fixed to its underside.
Primary Carrying Channel	Main Channel (MC) - Horizontal member at max. 1200mm* centres, with 38mm minimum web width.
MC- Suspensions	Vertical member of variable length-identical to the Main Channel, screw fixed to the Main channel at max. 1200mm* intervals.
Secondary Carrying Channel	Hat shaped Furring channel running cross-wise and screw fixed to the Main Channel at max. 600mm* centres
Anchors/plugs	Used for fixing the MC-suspensions to the slabs and wall angles to the wall respectively at max. 600mm centres
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance
Insulation	Used as quilt covering the entire ceiling system will increase sound insulation in the void. Rockwool slabs are used to enhance the fire insulation.

GC Series- Suspended concealed system with Single or multiple layer Gypsum plaster boards, suitable for fire rated and non-fire rated ceiling systems.

CEILING SYSTEMS

Sound Stop Concealed Ceiling - GSS



System Description:

GSS Series - Sound Stop Concealed ceiling consisting of galvanized steel main channels fastened to a slab / steel by KMUL anchors / brackets by threaded rods supported by Phonic U-hangers to which cross-wise running furring channels are screw-fixed using wafer head screws at each intersection. Multiple (upto 4) layers of fire rated gypsum boards, all joints staggered from layer to layer, are screwfixed to the underside of the furring channels. Taping and jointing of the face board provides a smooth continuous surface ready to be painted. A glass wool blanket is unrolled on top of the system

Gypsum Plaster board	High density fire rated plasterboard such as ; FW, MRFW etc
Perimeter support	Not to be used
Threaded Rod	Vertical member of variable length- comprising of threaded rod, fixed to the Phonic Hangers at one side and to the Anchor on the other side.
Phonic Hanger	Used as sound isolation device between the Threaded Rod and the primary channel
Primary Carrying Channel	Main Channel (MC) - Horizontal member, with 60mm minimum web width.
Secondary Carrying Channel	Hat shaped Furring channel running cross wise, and screw fixed to the Main Channel
Anchors	Used for fixing the Thread Rod to the slabs
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance.
Insulation	Used as quilt covering the entire ceiling system to increase sound insulation





Partition Systems

System Series

- Single Layer Partition G1 Series
- Double Layer Partition G2 Series
- Triple Layer Partition G3 Series
- Chase Wall Partition GH Series
- Staggered Wall Partition GS Series

Applicable Standards

ASTM Standards

EN / BS Standards

Metal Profiles

Deflection Head Track U Track C Stud J Runner-DHT J Runner WallTrack E Stud CH Stud Furring Channel Main Channel Wall Angle Flat Strap

Fixing Components Wedge Anchors Hummer Screw Wafer Head Screws Self Tapping Screws Self Drilling Screws L Bracket Threaded Rod Acoustic V-brace

Insulation Glass Wool Rock Wool

Jointing Tape Fibre Jointing Tape Metal Tape Paper Tape

Joint Filler Smartmix JC

Sealant Fireblock Sealant

Finishing Components Corner Bead Shadowline Angle Stopping Bead

Single Layer Partition - G1 Series



System Description:

EL-KHAYYAT Drywall Partition solutions are non load bearing, light weight, easy to install, yet robust - comprising of plasterboards screw fixed on either side to UC metal structures (Tracks and Studs), with joints taped and filled to get even smooth and homogenous surface.

Low weight in comparison to masonry walls of comparable thickness Enhances saving in structural design Suitable for high rise buildings

Quick and Easy to install Cost effective Reduced Project completion time

Performance

Fire protection - up to 1 hrs Sound Insulation - up to 51 dB Enhancement of fire & acoustic performance can be achieved by increasing the number of layers of plasterboards

Filling the cavity with insulation enhances the acoustic performance Used

as Partitions in commercial and residential buildings.

G1-Series-partition with single layer boards on either side of the UC metal structure.

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be seleced RG for general applications; MR for humid and aerated area application; FW for enhanced fire resistance; TF for enhanced Impact resistance etc.
Tracks	Horizontal member of UC metal structure with equal 32mm minimum flange heights. In case of deflection the Top tracks have a flange height of minimum 50mm
Studs	Vertical member of UC metal structure with unequal flange heights (suitable for boxing of studs)
Anchors/plugs	Used for fixing the tracks to the slabs and floor respectively
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance
Insulation	Used as cavity infill to enhance sound insulation
Fixing channel/ Noggins	Used as backing for horizontal edge cut joints in fire rated partitions

Double Layer Partition - G2 Series



System Description:

EL-KHAYYAT Drywall Partition solutions are non load bearing, light weight, easy to install, yet robust - comprising of plasterboards screw fixed on either side to UC metal structures (Tracks and Studs), with joints taped and filled to get even smooth and homogenous surface.

Low weight in comparison to masonry walls of comparable thickness Enhances saving in structural design

Suitable for high rise buildings

Quick and Easy to install Cost effective Reduced Project completion time

Performance

Fire protection - up to 3 hrs Sound Insulation - up to 57 dB Enhancement of fire & acoustic performance can be achieved by increasing the number of layers of plasterboards

Filling the cavity with insulation enhances the acoustic performance Used as Partitions in commercial and residential buildings.

G2-Series-partition with multiple layer boards on either side of the UC metal structure.

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be selected - RG for general applications; MR for humid and aerated area application; FW for enhanced fire resistance; TF for enhanced Impact resistance etc.
Tracks	Horizontal member of UC metal structure with equal 32mm minimum flange heights. In case of deflection the Top tracks have a flange height of minimum 50mm.
Studs	Vertical member of UC metal structure with unequal flange heights (suitable for boxing of studs)
Anchors/plugs	Used for fixing the tracks to the slabs and floor respectively
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance
Insulation	Used as cavity infill to enhance sound insulation
Fixing channel / Noggins	Used as backing for horizontal edge cut joints in fire rated partitions

Triple Layer Partition - G3 Series



System Description:

EL-KHAYYAT Drywall Partition solutions are non load bearing, light weight, easy to install, yet robust - comprising of plaster- boards screw fixed on either side to UC metal structures (Tracks and Studs), with joints taped and filled to get even smooth and homogenous surface.

Low weight in comparison to masonry walls of comparable thickness

Enhances saving in structural design Suitable for high rise buildings

Quick and Easy to install Cost effective Reduced Project completion time

Performance

Fire protection - up to 3 hrs Sound Insulation - up to 61 dB Enhancement of fire & acoustic performance can be achieved by increasing the number of layers of plasterboards

Filling the cavity with insulation enhances the acoustic performance Used

as Partitions in commercial and residential buildings.

G3-Series-partition with multiple layer boards on either side of the UC metal structure.

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be selectedFW for enhanced fire resistance; TF for enhanced Impact resistance etc.
Tracks	Horizontal member of UC metal structure with equal 32mm minimum flange heights. In case of deflection the Top tracks have a flange height of minimum 50mm.
Studs	Vertical member of UC metal structure with unequal flange heights (suitable for boxing of studs)
Anchors/plugs	Used for fixing the tracks to the slabs and floor respectively
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance
Insulation	Used as cavity infill to enhance sound insulation
Fixing channel/ Noggins	Used as backing for horizontal edge cut joints in fire rated partitions

Chase Wall Partition - GH Series



System Description:

GH Series - used for very high acoustic partitions, comprises of multiple layers of gypsum boards screw fixed on the outer side of the UC structure having parallel row of tracks and studs. The parallel rows of studs are braced by plasterboards or by metal profiles or by metal profiles through Acoustic V-brace, at defined horizontal heights for various acoustic performance requirements. Filling each stud cavity with acoustic insulation blanket, will enhance acoustical insulation as will do the sealing of the perimeters with Fire and Acoustic sealant that is at the same time providing the necessary air-tightness in case of fire.

Performance

Fire protection - up to 3 hrs Sound Insulation - up to 72 dB

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be selected - RG for general applications; MR for humid and aerated area application; FW for enhanced fire resistance; TF for enhanced Impact resistance etc.
Tracks*	Horizontal member of UC metal structure with equal 32mm minimum flange heights. In case of deflection the Top tracks have a flange height of minimum 50mm.
Studs*	Vertical member of UC metal structure with unequal flange heights (suitable for boxing of studs)
Anchors/plugs	Used for fixing the tracks to the slabs and floor respectively
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance
Insulation	Used as cavity infill to enhance sound insulation
Fixing channel	Used as backing for horizontal edge cut joints in fire rated partitions
Bridging componen t	Plasterboard, Fixing channel and Acoustic V-Brace

Staggered Wall Partition - GS



System Description:

GS Series - used for acoustic partitions, comprises of single or double layers of gypsum boards screw fixed on the outer side of the UC structure having staggered row of studs, brace between top and bottom tracks and/or guide angles. The studs are not braced horizontally. Filling partition cavity with acoustic insulation blanket, will enhance acoustical insulation as will do the sealing of the perimeters with Fire and Acoustic sealant that is at the same time providing the necessary air-tightness in case of fire.

Performance

Fire protection - up to 2 hrs Sound Insulation - up to 61dB

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be selected - RG for general applications; MR for humid and aerated area application; FW for enhanced fire resistance; TF for enhanced Impact resistance etc.
Tracks/Guide Angles*	Horizontal member of UC metal structure
Studs*	Vertical member of UC metal structure with unequal flange heights (suitable for boxing of studs)
Anchors/plugs	Used for fixing the tracks to the slabs and floor respectively
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the perimeter areas, to achieve the necessary fire and acoustic performance
Insulation	Used as cavity infill to enhance sound insulation
Fixing channel	Used as backing for horizontal edge cut joints in fire rated partitions



Shaft-Wall System

System Series

Shaft-wall System - GSW Series

Metal Profiles

Deflection Head Track U Track C Stud J Runner- DHT J Runner WallTrack E Stud CH Stud Furring Channel Main Channel Wall Angle Flat Strap

Fixing Components Wedge Anchors Hummer Screw Wafer Head Screws

Self Tapping Screws Self Drilling Screws L Bracket Threaded Rod Acoustic V-brace

Insulation Glass Wool Rock Wool

Jointing Tape Fibre Jointing Tape Metal Tape Paper Tape

Joint Filler Smartmix JC

Sealant Fireblock Sealant

Finishing Components Corner Bead Shadowline Angle Stopping Bead

Applicable Standards

ASTM Standards

EN / BS Standards

Shaftwall - GSW Series



System Description:

EL-KHAYYAT Shaftwall lining solutions - are generally used as liners for various types of building shafts and/or can be used as wall liner where accessibility to work is at one side only. It is mostly used as fire rated systems **GSW Series** - comprises of J-tracks, CH and E-studs as the metal structure elements, with MRFW-CB (core boards) slide into the H part of the CH studs facing the shaft and FW or MRFW boards screw fixed to the other side of the CH facing the corridor.

Low weight in comparison to masonry walls of comparable thickness

Enhances saving in structural design Suitable for high rise buildings

Quick and Easy to install

Cost effective Reduced Project completion time

Performance

Fire protection - up to 2 hrs

Sound Insulation - up to 52 dB using Glasswool Insulation

Enhancement of fire & acoustic performance can be achieved by increasing the number of layers of plasterboards Filling the cavity with insulation enhances the acoustic performance

Gypsum Plaster board	Based on the performance requirement, the plasterboard needs to be selected - FW for enhanced fire resistance MRFW for humid & aerated area requiring enhanced fire resistance applications.
J-Tracks*	Horizontal member of metal structure with J-deflection tracks(50/75) the top and J-tracks(25/57) at the bottom
CH and E Studs*	Vertical member of metal structure – with E studs at end positions close to the wall and CH studs at the intermediate positions
Anchors	Used for fixing the tracks to the slabs and floor
Drywall screws	Used for screw fixing the boards to the metal structures; available as self tapping or self drilling
Joint tape and Filler	Used to get a even smooth and homogenous surface at the joints
Sealant	Applied at the abutment areas, to achieve the necessary fire and acoustic performance
Insulation	Used as cavity infill to enhance sound insulation
Fixing channel	Used as backing for horizontal edge cut joints in fire rated partitions

* Metal thickness will be determined by the partition height, deflection limit and lateral pressures.



Liner Systems

System Series

- Independent Wall Liner GW Series
 - Dependent Wall Liner GL Series

Metal Profiles

Deflection Head Track U Track C Stud J Runner- DHT J Runner WallTrack E Stud CH Stud Furring Channel Main Channel Mall Angle Flat Strap

Fixing Components Wedge Anchors Hummer Screw Wafer Head Screws Self Tapping Screws Self Drilling Screws L Bracket Threaded Rod Acoustic V-brace

Insulation Glass Wool Rock Wool

Jointing Tape Fibre Jointing Tape Metal Tape Paper Tape

Joint Filler Smartmix JC

Sealant Fireblock Sealant

Finishing Components Corner Bead Shadowline Angle Stopping Bead

Applicable Standards

ASTM Standards

EN / BS Standards

Independent Wall Liner - GW Series



System Description:

GW Series- Uses traditional UC metal structure (tracks and stud) in a front of the wall to be lined. Thus, enclosing any services and also provide cavity of adding insulating material. On the external side of the metal structure the Gypsum plasterboard is screw fixed with its joint, treated (taped and filled) to achieve the even, smooth and homogenous surface.

Dependent Wall Liner - GL Series



System Description:

GL Series- Uses Furring channel or C- studs fixed on to the wall directly or on to adjustable brackets fixed on the walls. On the external side of the metal structure the Gypsum plasterboard is screw fixed with its joint, treated (taped and filled) to achieve the even, smooth and homogenous surface.

GUIDLINE



Installation Guide

GENERAL

It is important to observe appropriate health and safety legislation when working on site i.e., personalprotective clothing and equipments, etc. the following notes are intended for general guidance only. In practice, consideration must be given to design criteria requiring specific project solutions.

HANDLING

Manual off-loading of this product should be carried out with care to avoid unnecessary back muscle strain.

CUTTING

This product may be cut using a Plasterboard saw or by scoring with a sharp knife and snapping the board over a straight edge. Holes switch or socket boxes should be cut out, using a jab saw or a sharp knife, before the boards are fixed. When cutting boards, power and hand tools should be used with outmost care. Power tools should only be used by people who have been instructed and trained to use them safely. Appropriate personal protective equipment should be used.

FIXING

Fix boards with decorative (face) side out to receive joint treatment or as a skim plaster finish.

PLASTER BOARD WEIGHTS

All weights mentioned on EL-KHAYYAT Plaster Board product system are approximate.

MECHANICAL HANDLING

The dimensions of the stack vary depending on the product size. To avoid potentially overloading a forklift truck, it is important that any effect on load centers is considered.

STORAGE

Boards must be stored flat and in dry condition. Practice good housekeeping and stock rotation. Support bearers under a stack of boards must not be more than 400 mm apart.

Disclaimer

EL-KHAYYAT endeavors to ensure that all the information it gives is accurate and correct to the best of its knowledge, the designer or other recipient of the information must satisfy himself that the information is appropriate to the specific application. EL-KHAYYAT expressly disclaims all liability as to any results obtained or arising from any use of product or reliance on such information.

HEALTH AND SAFETY

EL-KHAYYAT products are marketed for use in the lining and decoration of housing, commercial, industrial and retail buildings.

The main health and safety issues created by the use of Boral products relate to working habits and conditions and the constituents used in the products. It is important that EL-KHAYYAT products are used only in the manner for which they are intended and in accordance with. Safe working habits and conditions will ensure that occupational exposure is minimised.

Airborne dust

To reduce airborne dust, open EL-KHAYYAT compound products and mix products with water in well ventilated conditions; avoid contact with eyes and always wash exposed skin after use. Cutting plasterboard with power tools and sanding generate dust, so should be kept to a minimum. Ideally all operations which produce dust should be carried out in well ventilated conditions. To minimize the risks from airborne dust in unventilated conditions, EL-KHAYYAT recommends the wearing of dust mask and safety glasses made in accordance with international or local standards when working with EL-KHAYYAT compounds and plasterboard products.

EL-KHAYYAT metal products

Boral metal components should be cut and handled carefully to avoid cuts and abrasions. To minimize the risks of cuts and abrasions, EL-KHAYYAT recommends the wearing of gloves and safety glasses made in accordance with international or local standards when working with EL-KHAYYAT metal products.

EL-KHAYYAT product constituents

The British Health and Safety Executive Guidance Note EH40/94 gives information about airborne concentration of substances in the workplace for which constant daily exposure will not cause harmful effects, known as Occupational Exposure Standards (OES). The Health and Safety Executive reviews OES's annually in the light of new medical evidence.

On-site safety

EL-KHAYYAT recommends the following safety equipment to be worn on-site when working with EL-KHAYYAT products and systems.All safety equipment should meet international or local standards.

Recommended to wear at all times

Safety hard hat

Safety shoes

High visibility safety jacket

Safety glasses

Recommended to wear when cutting plasterboard or metal components

Gloves



Recommended to wear when heavy dust is being generated

Dust Mask



HEALTH AND SAFETY

Plasterboard Standards

ASTM C 1396 Standard specifications for gypsum board.

BS 1230 Gypsum plasterboard Part 1: 1985 Specification for plasterboard excluding materials submitted to secondary operations

BS EN 520:2004 Gypsum plasterboards. Definitions, requirements and test methods

Fire Standards

ASTM E 84-7 Standard method of test for surface burning characteristics of building materials.

ASTM E119-07 Standard test methods for fire tests of building construction and building materials

BS 476 Fire tests on building materials and structures

Part 4: 1970 (1984) Non-combustibility test for materials.

Part 6: 1981 Method of test for fire propagation for products

Part 7: 1987 Method for classification of the surface spread of flame of products

Part 20: 1987 Methods for determination of the fire resistance of elements of construction (general principles)

Part 21: 1987 Methods for determination of the fire resistance of loadbearing elements of construction

Part 22: 1987 Methods for determination of the fire resistance of non-loadbearing elements of construction

Part 23: 1987 Methods for the determination of the contribution of components to the fire resistance of a structure

Part 24:1987 Method for determination of the fire resistance of ventilation ducts

BS EN 1363 Fire resistance tests Part 1 General requirements

BS EN 1364 Fire resistance tests for nonloadbearing elements

Part 1 Walls Part 2 Ceilings

BS EN 1365 Fire resistance tests for loadbearing elements

Part 1 Walls Part 2 Floors and roofs Part 3 Beams Part 4 Columns

Fire Standards - (continued)

BS EN 1366 Fire resistance of service installations

Part 3 Penetration seals Part 4 Linear joint seals

BS EN 13381 Contributor of fire resistance of structural members

Part 3 Membrane protection -horizontal Part 4 Steel elements

Acoustics Standards

ASTM E90 Standard test method for laboratory measurement of airborne sound transmission loss of building partitions and elements

BS 2750: 1980 Methods of measurement of sound insulation in buildings and of building elements

BS 5821 Rating the sound insulation in buildings and of building elements

Part 1: 1984 Method of rating the airborne sound insulation in buildings and of interior building elements

Part 2: 1984 Method of rating the impact sound insulation

BS EN 140: 1995 Methods of measurement of sound insulation in buildings and of building elements

Strength And Robustness

BS 5234: Specification for performance requirements for strength and robustness

Part 2: 1992 Including methods of test

Installation Standards

AS/NZS 2589.1:1997 Gypsum Lining in Residential and Light Commercial Construction – Application and Finishing. Part1: Gypsum Plasterboard

BS 8121: 1995 Code of practice for Drylining and partitioning using gypsum plasterboard

BS 8000 Workmanship On Building Sites Part 8, 1994: Code of practice for plasterboard partitions and drylining

General Notes

GENERAL

Studs should not be screw fixed to the top track.

Studs should be cut short based on the deflection & expansion gap (gap to be maintained at top)

Provide trim edges with edge trim where vertical edges of panels are exposed.

Build partition first and then the ceilings.

Higher performance wall takes priority at the junctions.

Movement joints should give at appropriate places according to ASTM C 840 or specific locations approved by Architect for visual effect.

EL-KHAYYAT systems are accessible with our Access panels.

GENERAL NOTES FOR FIRE & ACOUSTIC RATED PARTITIONS

Horizontal & Vertical boards Joints are to be staggered from side to sides & Layer to Layer. Seal joints between edges and abutting structural surfaces with Fire and Acoustical sealant. Horizontal Cut joints to be backed up using fixing channel or Nogging Track to achieve fire rating. Vertical boarding to be followed for EL-KHAYYAT Fire Rated Systems.

Filling of the void with Insulation will enhance acoustical rating.

Effect of Any Service Openings or Other Potential Weaknesses in the Element has to be (rectified) treated with specialist advise.

Fire and acoustic rating to be maintained at penetrations, electrical sockets and movement joints.

WARRANTY ON PERFORMANCE RATED DRYWALL & CEILING SYSTEM

EL-KHAYYAT only warrant the systems that have been installed in full compliance to EL-KHAYYAT instructions and speci- fications. Limit of the warranty are specified in EL-KHAYYAT Warranty Certificate.

The final system warranty letter will be issued only when the project was inspected by EL-KHAYYAT Technical team. Ensure the correct components are used and design proposal is adhered to obtain EL-KHAYYAT certification and warranty. To conduct site inspection, it is the contractor's responsibility to inform EL-KHAYYAT about the readiness of the system at various stages,

- After framing
- After Boarding and jointing on one side
- •After Boarding & jointing on other side and application of sealant around the perimeters & penetrations (* Before start of framing for installers not approved by EL-KHAYYAT)

SUSTAINABILITY

Most EL-KHAYYAT Products contributes to Regional Materials & Recycle Content Credits.

AL-KHAYYAT Locations :





EL KHAYYAT GYPSUM COMPANY



DESCRIPTION

A gypsum based ceiling panel laminated with vinyl that makes it easy to clean and sustainable.

FEATURES & BENEFITS

Laminated Gypsum Ceiling with washable vinyl facing for easy maintenance.

Available in plain facings with smooth appearance.

• Ultra-high humidity resistant; sag resistance ensures durability in standard or extreme environmental conditions.

 Standard produced with aluminium foil backing which acts as a vapor barrier and resists breathing so panel stays cleaner longer.

- Scrub resistant. Dirt marks are easy to remove.
- Durable, scuff, and scratch resistant for longer life.
- Economical and easy to trim and install.

 Demountable and designed to be installed on the QUADRA® Brand ceiling suspensions

APPLICATIONS

Commercial retails

- Restrooms and wet areas
- Department stores
- · Kitchen, dietary and laundry

Effect of Condensation

The thermal insulation and ventilation requirements of national building regulations aim to reduce the risk of condensation and mold growth in new buildings. However, designers should take care to eliminate all possibility of problems caused by condensation, particularly in refurbish ment projects**ASTM C1396** Standard Specification for Gypsum Board



Gypsum Tiles

SPECIFICATION DETAILS

Thickness 7 mm 9 mm 12 mm

Edge Details Square Edge (SE)

Module Size 600 x 600 mm 600 x 1200 mm

Board weight: 7 mm : 4.9 Kg/m2 (± 0.3 Kg/m2) 9 mm : 5.2 Kg/m2 (± 0.3 Kg/m2) 12 mm (SE) : 7.6 Kg/m2 (± 0.4 Kg/m2)

Thermal Conductivity : 0.25 w/m *k




EL KHAYYAT GYPSUM COMPANY



DESCRIPTION

EL-KHAYYAT offers a wide range of high quality aluminum alloy and metal ceiling system that increase the aesthetic and functional value of your interiors within a modest ceiling budget. metal ceiling products are available in standard suspended ceiling systems such as exposed grid / concealed suspension system; custom-made metal ceiling is also available on request to meet the different requirements of

FEATURES & BENEFITS

EL-KHAYYAT offers unique systems providing the specifier unlimited design possibilities for applications ranging from banks to corporate offices, airports till shopping malls.

APPLICATIONS

durability and performance:

- Wide range of standard patterns, other patterns are available upon request
- Durable and washable polyester powder finish
- Easy access for service maintenance
- · Robust and easy to clean
- · High sound absorption and sound attenuation
- Extensive range of perimeter options
- Environmentally friendly and recyclable
- MATERIALS AND MANUFACTURER

Metal ceiling panels are all antibacterial tiles which are press formed from aluminum alloy series 3000 or mild steel and factory finished with an electrostatically applied polyester powder coat (70-90 microns). The paint's grade varies widely from commercial to super durable to comply with most of the projects requirements. Panel thickness range from 0.6 to 1.4mm, other thickness is available upon request. Suspension components are made from galvanized steel or and pre-painted steel/ aluminum

COLOR

The standard color is RAL 9016 white 20% gloss, RAL9006 and RAL9010. Other colors are available upon request.

FIRE PERFORMANCE

Fire rated designed class A as per ASTM E84 is available upon request.

Gypsum Tiles

ACCOUSTICAL PERFORMANCE DETAILS

	INFILL		α.	
	Plain	N/A	N/A	35-40
nu-les	Standard Acoustical Fleece	0.45-0.60	-	<20
Lay-in Panels	Premium Acoustical Fleece	0.65	Class C	<20
	Premium Acoustical Fleece+Rockwool	0.90	Class A	20-25
	Mineral Fiber Board	0.40-0.50	-	30-35
	Plain	N/A	N/A	35-40
	Standard Acoustical Fleece	0.45-0.60	-	<20
Clip-In Panels	Premium Acoustical Fleece	0.70	Class C	<20
	Premium Acoustical Fleece+Rockwool	0.90	Class A	20-25
	Mineral Fiber Board	0.40-0.50		30-35

SUSPENSION COMPONENTS

Suspension hanger red	Suspends primary channel from soffit	
Suspension channel	Provides primary support and lateral restriant	
Spring tee bar (Triangle type)	Provides support for clip-in tile flanges, Suspend below suspension channel	A
Wire connecting clips	For coupling	2-2
Primary channel brackets	To suspend the primary channels using hangers	ΔC
Butterfly clip	Provide easy plenum height adjustment	4
L-Trim	22 x 19.5mm - 0.48 thick	£
U-Trim	30 x 50 x 30mm - 0.48 thick	-



PRODUCT INFORMATION

ITEM NO.	DESCRIPTION	TOTAL TICKNESS	EDGE DETAIL		COLOUR	SUSPENSION OPTION
AC-11 (6)(7)(8) R (16)(10)(06)	Clip-in panel 300x300mm Alum, Plain	0.60/0.70/0.80mm	Beveled	0.45-0.90	RAL9016/ 9010/9006	Carrier Connection
ACPA1-11 (6)(7)(8) R (16)(10)(06)	Clip-in panel 300x300mm Alum, Perforated	0.60/0.70/0.80mm	Beveled	0.45- 0.90	RAL9016/ 9010/9006	Carrier Connection
AC-22 (6)(7)(8) R (16)(10)(06)	Clip-in panel 600x600mm Alum, Plain	0.60/0.70/0.80mm	Beveled	0.45-0.90	RAL9016/ 9010/9006	Carrier Connection
ACPA1-22 (6)(7)(8) R (16)(10)(06)	Clip-in panel 600x600mm Alum, Perforated	0.60/0.70/0.80mm	Beveled	0.45- 0.90	RAL9016/ 9010/9006	Carrier Connection
SC-22 (6)(7) R (16)(10)(06)	Clip-in panel 600x600mm Steel, Plain	0.50/0.60mm	Beveled	0.45- 0.90	RAL9016/ 9010/9006	Carrier Connection
SCPA1-22 (6)(7) R (16)(10)(06)	Clip-in panel 600x600mm Steel, Perforated	0.50/0.60mm	Beveled	0.45- 0.90	RAL9016/ 9010/9006	Carrier Connection
AC-14 (8)(9)(10) R (16)(10)(06)	Clip-in panel 300x1200mm Alum, Plain	0.80/0.90/1.0mm	Beveled	0.45- 0.90	RAL9016/ 9010/9006	Carrier Connection
ACPA1-14 (8)(9)(10) R (16)(10)(06)	Clip-in panel 300x1200mm Alum, Perforated	0.80/0.90/1.0mm	Beveled	0.45-	RAL9016/ 9010/9006	Carrier Connection
AC-15 (8)(9)(10) R (16)(10)(06)	Clip-in panel 300x1500mm Alum, Plain	0.80/0.90/1.0mm	Beveled	0.45- 0.90	RAL9016/ 9010/9006	Carrier Connection
ACPA1-15 (8)(9)(10) R (16)(10)(06)	Clip-in panel 300x1500mm Alum, Perforated	0.80/0.90/1.0mm	Beveled	0.45-	RAL9016/ 9010/9006	Carrier Connection
AC-24 (8)(9)(10) R (16)(10)(06)	Clip-in panel 600x1200mm Alum, Plain	0.80/0.90/1.0mm	Beveled	0.45-	RAL9016/ 9010/9006	Carrier Connection
ACPA1-24 (8)(9)(10) R (16)(10)(06)	Clip-in panel 600x1200mm Alum, Perforated	0.80/0.90/1.0mm	Beveled	0.45-	RAL9016/ 9010/9006	Carrier Connection
AC-44 (14) R (16)(10)(06)	Clip-in panel 1200x1200mm Alum, Plain	1.4mm	Beveled	0.45-0.90	RAL9016/ 9010/9006	Carrier Connection
ACPA1-44 (14) R (16)(10)(06)	Clip-in panel 1200x1200mm Alum, Perforated	1.4mm	Beveled	0.45-	RAL9016/ 9010/9006	Carrier Connection

The provided thickness in the above table is the Total Coated Thickness (TCT), which includes the Base Material Thickness (BMT) + the thickness of the paint. Panels may be supplied either plain or in a range of perforation patterns with a nominal 12mm plain border. Illustrated below are the most widely used patterns and plain border dimensions are available on request.

PERFORATION PATTERNS

raise	ern A (Open a	rea: 19.	5%)	Patter	n B (O	pen ar	ea; 107	0,1
0	0 0	C	0	0	0	0	0	
D C	0 0	0	C	0	0	0	0	
5	0 0	0	0	0	0	0	0	
0	000		0	0	0	0	0	
0	0)	0	0	0	0	0	
offset	round ration OD 1.8 m	m		Offset	round ation O	D 1.8 m	m	
Patte	rn C (Open a	area: 5.5	5%)	Patter	n D (0	pen ar	ea: 4.5	%
0	0	0	0					
0	0	0	0		00	0	0 0	
9	0	~	~		00	0	0 0	
0	0	0	0		00	0	0 0	
0	0	0	0		00	00	00	
0	0	0	0					

Perforation of round hole OD 2.3mm is available on the sizes 300 x 300mm, 300x1200mm and 300x1500mm

CUT VIEW DETAILS

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20 - 25mm

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CLIP-IN CEILINGS

0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

Customized patterns are available upon request.



EL KHAYYAT GYPSUM COMPANY

PRODUCT INFORMATION

LAY-IN CEILINGS

ITEM NO.	DESCRIPTION	TOTAL TICKNESS	EDGE DETAIL		COLOR	SUSPENSION
ALN-11 (6)(7)(8) R (16)(10)(06)	Lay-in panel 300x300mm Alum, Plain	0.60/0.70/0.80mm	FL	0.45- 0.90	RAL9016/ 9010/9006	
ALPA1N-11 (6)(7)(8) R (16)(10)(06)	Lay-in panel 300x300mm Alum, Perforated	0.60/0.70/0.80mm	FL	0.45- 0.90	RAL9016/ 9010/9006	
ALN-22 (6)(7)(8) R (16)(10)(06)	Lay-in panel 600x600mm Alum, Plain	0.60/0.70/0.80mm	FL	0.45- 0.90	RAL9016/ 9010/9006	Option 1- DX/DXL
ALPA1N-22 (6)(7)(8) R (16)(10)(06)	Lay-in panel 600x600mm Alum, Perforated	0.60/0.70/0.80mm	FL	0.45- 0.90	RAL9016/ 9010/9006	Grid Imperial
SLN-22 (6)(7) R (16)(10)(06)	Lay-in panel 600x600mm Steel, Plain	0.50/0.60mm	FL	0.45- 0.90	RAL9016/ 9010/9006	Option 2- DXLT15
SLPA1N-22 (6)(7) R (16)(10)(06)	Lay-in panel 600x600mm Steel, Perforated	0.50/0.60mm	FL	0.45- 0.90	RAL9016/ 9010/9006	Grid Metric
ALN-24 (8)(9)(10) R (16)(10)(06)	Lay-in panel 600x1200mm Alum, Plain	0.80/0.90/1.0mm	FL	0.45- 0.90	RAL9016/ 9010/9006	
ALPA1N-24 (8)(9)(10) R (16)(10)(06)	Lay-in panel 600x1200mm Alum, Perforated	0.80/0.90/1.0mm	FL	0.45- 0.90	RAL9016/ 9010/9006	
ALW-11 (6)(7)(8) R (16)(10)(06)	Lay-in panel 300x300mm Alum, Plain	0.60/0.70/0.80mm	SL.	0.45- 0.90	RAL9016/ 9010/9006	
ALPA1W-11 (6)(7)(8) R (16)(10)(06)	Lay-in panel 300x300mm Alum, Perforated	0.60/0.70/0.80mm	SL	0.45- 0.90	RAL9016/ 9010/9006	
ALW-22 (6)(7)(8) R (16)(10)(06)	Lay-in panel 600x600mm Alum, Plain	0.60/0.70/0.80mm	SL	0.45- 0.90	RAL9016/ 9010/9006	
ALPA1W-22 (6)(7)(8) R (16)(10)(06)	Lay-in panel 600x600mm Alum, Perforated	0.60/0.70/0.80mm	SL	0.45- 0.90	RAL9016/ 9010/9006	DX/DXL Exposed T24
SLW-22 (6)(7) R (16)(10)(06)	Lay-in panel 600x600mm Steel, Plain	0.50/0.60mm	SL	0.45- 0.90	RAL9016/ 9010/9006	Grid Metric
SLPA1W-22 (6)(7) R (16)(10)(06)	Lay-in panel 600x600mm Steel, Perforated	0.50/0.60mm	SL	0.45- 0.90	RAL9016/ 9010/9006	
ALW-24 (8)(9)(10) R (16)(10)(06)	Lay-in panel 600x1200mm Alum, Plain	0.80/0.90/1.0mm	SL	0.45- 0.90	RAL9016/ 9010/9006	
ALPA1W-24 (8)(9)(10) R (16)(10)(06)	Lay-in panel 600x1200mm Alum, Perforated	0.80/0.90/1.0mm	SL	0.45- 0.90	RAL9016/ 9010/9006	

SPECIFICATIONS SYSTEM LAY-IN METAL CEILINGS





EL KHAYYAT GYPSUM COMPANY

DESCRIPTION

LAY-IN CEILINGS

Lay-in System is a demountable tile, flush or regular effect system which is particularly suitable for commercial, retail and display areas, where access to the ceiling void is required.

Designed to lay in an exposed grid suspension system, either DX, DXT, DXF, OMEGA grid, to form flush or Tegular suspended metal ceiling.

- Strong modular or flush appearance
- A range of module sizes
- Simple to install
- Head fixing
- Sealed-in acoustic infills

ACCESS

Tiles can be simply lifted out of the suspension system to gain access to the ceiling void

SYSTEM MODULES SIZES

Standard nominal tile sizes: 300x300mm, 600x600mm and 600x1200mm

PERFORATION PATTERNS

Pattern A (Open area: 19.5%)	Pattern B (Open area: 10%)	Pattern C (Open area: 5.5%)	Pattern D (Open area: 4.5%)
0 0 0 0	0 0 0 0	0 0 0 0 0)
0 0 0 0 0	0 0 0 0	0 0 0 0 0	
0 0 0 0 0	0 0 0 0	0 0 0 0 0	00000
0000	0 0 0 0	0 0 0 0 0	
0 0 0 0	0 0 0 0	0 0 0 0 0)
Offset round perforation OD 18 mm			

Panels may be supplied either plain or in a range of perforation patterns with a nominal 12mm plain border. Illustrated below are the most widely used patterns and plain border dimensions are available on request.



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APPLICATION GUIDE SPECIFICATIONS

METAL CEILING SYSTEMS

Description of Work: Work of this Section includes, but is not limited to, the following

PART 1 :SUMMARY

- Metal ceiling panels.
- Metal suspension systems.
- Accessories

SUBMITTALS

Product Data: Submit manufacturer's specifications and installation instructions with Project conditions Submittals materials clearly identified or detailed for each required system.

REFERENCES

- ASTM C635: Standard specifications for Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
- ASTM C636: Recommended Practice for Installation of Metal Suspension System for Acoustical Tile and Lay-in Panels.
- 3. 3. ASTM E119: Fire Tests of Building Construction and Materials.
 - ASTM C423: Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
 - 5. ASTM E84: Fire Hazard Classification

QUALITY ASSURANCE

1. Reference Standards:

ASTM C635, Standard Specifications for Metal Suspension Systems
 ASTM Recommended Practice for Installation of Metal Suspension Systems.

2. Submittals:

4.

5.

Samples: Submit actual samples and technical data for suspension system main tees and cross tees for review.

3. Manufacturer's Data:

System Details: Submit manufacturer's catalogue cuts or standard drawing showing the system's details with project conditions clearly identified and manufacturer's recommended installation instructions.

DELIVERY, STORAGE AND HANDLING

1. Delivery:

- · Deliver materials to site promptly without undue exposure to weather
- · Deliver in manufacturer's unopened containers or bundles, fully identified by name, brand, type and grade

2. Inspection:

Promptly inspect delivered materials, file freight claims for damage during shipment, and order replacement materials as required. Any damaged materials shall I promptly removed from the job site

3. Storage:

- Store above ground in dry, ventilated space.
- Protect materials from soiling, rusting and damage.

4. Handling:

Handle in such manner to avoid racking, distortion or physical damage of any kind

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EL KHAYYAT GYPSUM COMPANY

APPLICATION GUIDE SPECIFICATIONS

Description of Work: Work of this Section includes, but is not limited to, the following

PROJECT CONDITIONS

Environmental Requirements:

Do not install the system or any parts until space is enclosed and the weatherproof, wet-work is completed and dry, in addition to the completion of the work above installation, and the maintenance of the space temperature and humidity as designed for occupancy

COORDINATION WITH OTHER WORK

 General: Coordinate with other work including mechanical and electrical works and partition systems. Installation of conduit and ductwork above suspension system shall be complete before installation of the suspension system.

2. Protection:

Follow good safety and industrial hygiene practices during handling and installing all the
products and systems with personnel to take necessary precautions and wear
appropriate personal protective equipment as needed.
 Read Material Safety Data
Sheets and related literature for important information on products before installation.
 Contractor will be solely responsible for all personal safety issues during and subsequent
to the installation; the architect, specifier, owner and manufacturer will rely on
contractor's performance in such regard

PART 2 :MATERIALS

1. Clip-In metal ceiling panels:

Manufactured by EL-khayyat, in compliance with the applicable ASTM Standards.

2. Panel finishes

- · Refer to page 5 for materials description, size, patterns and finish availability.
- Refer to page 4 for Accesories and Suspension systems.

3. Metal lay-in ceiling panels: .

 Panel finishes: Refer to page 5 for size, patterns and finish availability. Refer to page 6 for materials description

PART 3: EXECUTION

GENERAL

- 1. Standard for Ceiling Suspension System Installations: Comply with ASTM C636.
- 2. Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply with ASTM E 580.

INSPECTION

- Examine the areas where the ceiling panels are received for conditions that will adversely affect installation. Provide written report on the discrepancies.
- 2. Do not start work until unsatisfactory conditions are corrected.

3 Work to be concealed: Verify work above ceiling is complete and installed in a manner that will not affect the layout and installation of ceiling panels.

4. Beginning of installation shall signify acceptance of conditions in areas to receive ceiling panels.

5. Fire-rating requirements: Construction above fire-rated assembly shall meet requirements of UL Design specified in 2: Products.

PO Box 3300 - Post Code 21471, Jeddah -- Kingdom of Saudi Arabia - www.el-khayyat.com



EL KHAYYAT GYPSUM COMPANY

APPLICATION GUIDE SPECIFICATIONS

Gypsum Tiles

Description of Work: Work of this Section includes, but is not limited to, the following

PREPARATION

Field dimensions must be verified prior to installation

INSTALLATION

 Standard reference: Install ceiling panels and suspension system, including necessary hangers, grillage, splines, and other supporting hardware, in accordance with ASTM C636, and any applicable code requirement.

2. Manufacturer's reference: Install ceiling panels in exposed grid systems supported on all edges, in accordance with the manufacturer's warranty.

3. Drawing reference: Install ceiling panels in accordance with the approved shop drawings.

4. Hanger Wires:

• Spacing: Space hanger wires on main tees not more than 1.200 mm o.c. a maximum of 1200 mm o.c, attaching hangers directly to the structure above, or as required to support loads

Limitations: Do not support wires from mechanical and/or electrical equipment, piping or other equipment occurring above ceiling.

5. Accessories: Install accessories as applicable to meet the project requirements.

6. Install edge moldings and trim of the type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical tiles.

7. Install suspension system runners, so that they are shaped as a square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

8. Panels.

For Clip-In panels: install by clipping panels to the underside of the Spring T. After installation, leave 10 removal tools for maintenance.
 For Lay-in panels: Install by dropping panels down into grid frame from above

CLEANING

 Suspension System: Remove panel material and perform any necessary cleaning maintenance with non-solvent based commercial cleaner.

2. Immediately remove any corrosive substances or chemicals that would attack painted finishes (i.e. wallpaper adhesives).

3. Touch up all minor scratches and spots, as acceptable, or replace damaged sections when touch-up is not permitted.

4. Painting: Repainting of suspension member shall be with high-quality solvent based enamel paint and applied as recommended by the paint manufacturer. Ceiling panels may be touched-up by spraying thinned, non-bridging vinyl-acrylic flat wall paint. The type of paint selected and the method of application can alter the acoustical performance and fire ratings of any acoustical product.





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acc	Safety data sheet . (EC) 1907/2006, as amended by UK SI 2019/758	Smart Protection
Printing date 24.10.2023	Version number 9 (replaces version 8)	Revision: 24.10.2023
SECTION 1: Ident undertaking	tification of the substance/mixture and	l of the company/
· 1.1 Product identifier		
· Trade name: <u>Nullifire F</u>	<u>5702</u>	
 MSDS code: TK-N-FS70 1.2 Relevant identified of No further relevant inform Application of the subs 	12 uses of the substance or mixture and uses advised a nation available. .tance / the mixture Sealant	against
• 1.3 Details of the suppli • Manufacturer/Supplier: Tremco CPG UK Ltd Coupland Road, Hindley Tel: +44 (0) 1942251400 msds@tremcocpg.com	ier of the safety data sheet Green, WIGAN, WN2 4HT), Fax: +44 (0) 1942251410	
• Further information obt Tremco CPG UK Ltd Coupland Road, Hindley T: +44 (0) 1942251400, F www.tremcocpg.eu, info.	tainable from: Green, Wigan, WN2 4HT F: +44 (0) 1942251410 uk@tremcocpg.com	
• 1.4 Emergency telephon During office hours (Morecommended to call NH (ROI), or otherwise to con	ne number: on-Fri 08:30-17:00 GMT) Tel.: +44 (0) 1942251400 IS 111 (England/Wales/Scotland), your local GP/pharr ntact a doctor.	. At all other times it is nacist (NI), 01 809 2166
SECTION 2: Hazards	s identification	
2.1 Classification of the Classification according The product is not classif	substance or mixture g to Regulation (EC) No 1272/2008 fied, according to the GB CLP regulation.	
 2.2 Label elements Labelling according to Hazard pictograms Void Signal word Void 	Regulation (EC) No 1272/2008 Void ଅ	
Hazard statements Void Supplemental informati EUH208 Contains CIT [E produce an aller EUH210 Safety data she Regulation (EC) No 528	l ion: EC 247-500-7] : MIT [EC 220-239-6] (3:1), 1,2-benzis rgic reaction. et available on request. 5 /2012 on biocidal products Contains a biocidal produc	othiazol-3(2H)-one. May t: C(M)IT/MIT (3:1)
• 2.3 Other hazards	/B assessment	
• PBT: Not applicable.		
		(Contd. on page 2)

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Trade name: Nullifire FS702

· vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Dangerous components:		
CAS: 2634-33-5	1,2-benzisothiazol-3(2H)-one	<0.05%
EINECS: 220-120-9	Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317	
	Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	
CAS: 55965-84-9	CIT [EC 247-500-7] : MIT [EC 220-239-6] (3:1)	<0.0015%
Reg.nr.: 01-2120764691-48-xxxx	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 1, H330; Skin Corr. 1C, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10); Skin Sens. 1A, H317 Specific concentration limits: Skin Corr. 1B; H314: $C \ge 0.6$ % Skin Irrit. 2; H315: 0.06 % \le C < 0.6 % Eye Irrit. 2; H319: 0.06 % \le C	~0.001070
	 5.0 % Skin Sens. 1; H317: C ≥ 0.0015 % Skin Sens. 1A; H317: 0.0015 % ≤ C < 0.0015 % 	

• EU SVHC see Section 15

· GB SVHC see Section 15

· Additional information: For the wording of the listed hazard phrases refer to section 16.

· Regulation (EU) No 528/2012 Biocidal Products Regulation

CAS: 55965-84-9 CIT [EC 247-500-7] : MIT [EC 220-239-6] (3:1)

PT6

SECTION 4: First aid measures

4.1 Description of first aid measures

- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

- · Information for doctor: No further relevant information available.
- 4.2 Most important symptoms and effects, both acute and delayed Sensitising effect by skin contact is possible by prolonged exposure.
- Hazards No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire. Carbon dioxide (CO2) Carbon monoxide (CO)
 5.3 Advice for firefighters
- Protective equipment:
 Wear self-contained respiratory protective device.
 Wear fully protective suit.
 Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Avoid contact with the eyes and skin.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Protect from heat and direct sunlight.

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• Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles. Protect from frost.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- · Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- The usual precautionary measures are to be adhered to when handling chemicals. Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.
- Respiratory protection:
- Use only in well-ventilated areas.

Use suitable respiratory protective device in case of insufficient ventilation.

For further guidance,

please refer to HSE HSG53 "Respiratory Protective Equipment at work - A Practical Guide".

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

• Material of gloves

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Safety glasses

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· Body protection:

Protective work clothing

SECTION 9: Physical and chemical prope	SECTION 9: Physical and chemical properties			
•9.1 Information on basic physical and chemical	properties			
General Information				
· Colour:	According to product specification			
· Odour: • Malting point/fraczing point:	Mild			
Boiling point or initial boiling point and boiling	Underennined.			
range	377 9 °C (CAS: 103-23-1 Di-(2-ethylbexyl) adinate)			
· Flash point:	Not applicable			
pH at 20 °C	8.2 - 9.5			
Solubility				
water:	Fully miscible.			
 Vapour pressure at 197 °C: 	2.6 hPa (CAS: 103-23-1 Di-(2-ethylhexyl) adipate)			
 Density and/or relative density 	29 81 13 (2000) 80 70			
Density at 20 °C:	1.52 g/cm ³			
• 9.2 Other information				
· Appearance:	200 m			
Form:	Pasty			
Important information on protection of healt	n			
and environment, and on safety.	Dreduct does not present on evaluation bezard			
Solvent content:	Product does not present an explosion hazard.			
VOC (EII)	63 0/1			
VOC (EC)	< 0.5 %			
Solids content:	78 - 82 %			
Information with regard to physical bazar	4			
classes	a la			
Explosives	Void			
· Flammable gases	Void			
Aerosols	Void			
 Oxidising gases 	Void			
 Gases under pressure 	Void			
· Flammable liquids	Void			
Flammable solids	Void			
 Self-reactive substances and mixtures 	Void			
· Pyrophoric liquids	VOIQ			
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· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flam	nable	
gases in contact with water	Void	
• Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
 Desensitised explosives 	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity Stable

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- · 10.4 Conditions to avoid Protect from frost.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

· Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

Oral	LD50	1,193 mg/kg (rat)		
	ATE	454 mg/kg /bw (rat)		
Dermal	LD50	4 115 mg/kg (rat)		

CAS: 55965-84-9 CIT [EC 247-500-7] : MIT [EC 220-239-6] (3:1)

Dermal LD50 660 mg/kg (rabbit)

Inhalative LC50/4 h 2.36 mg/L (rat)

Skin corrosion/irritation Slight irritation possible.

· Serious eye damage/irritation Slight irritation possible.

· Respiratory or skin sensitisation May cause allergic skin disorders in sensitive individuals.

· Germ cell mutagenicity Based on available data, the classification criteria are not met.

· Carcinogenicity Based on available data, the classification criteria are not met.

• Reproductive toxicity Based on available data, the classification criteria are not met.

• **STOT-single exposure** Based on available data, the classification criteria are not met.

· STOT-repeated exposure Based on available data, the classification criteria are not met.

· Aspiration hazard Based on available data, the classification criteria are not met.

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Trade name: Nullifire FS702

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

*

SECTION 12: Ecological information

12.1 Toxicity

• Aquatic toxicity:

CAS: 2634-33-5 1,2-benzisothiazol-3(2H)-one

LC50/96 h 2.18 mg/L (oncorhynchus mykiss)

EC50/48 h 2.94 mg/L (daphnia magna)

EC50/72 h 0.11 mg/L (pseudokirchneriella subcapit.)

CAS: 55965-84-9 CIT [EC 247-500-7] : MIT [EC 220-239-6] (3:1)

LC50/96 h 0.19 mg/L (rainbow trout)

EC50/48 h 0.16 mg/L (daphnia magna)

EC50/72 h 0.027 mg/L (algae)

12.2 Persistence and degradability No further relevant information available.

· 12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT: Not applicable.

· **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

• Other information:

This product contains no substances in Annex I to Directive EC 1005/2009 concerning ozone depleting substances

- · Additional ecological information:
- · General notes:

Not known to be hazardous to water.

Recommendation:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Disposal must be made according to official regulations. UK (WM3) : n/a

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Trade name: Nullifire FS702

· European waste catalogue

08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

· Uncleaned packaging:

Recommendation:

Dispose of packaging according to regulations on the disposal of packagings.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

 14.1 UN number or ID number ADR, ADN, IMDG, IATA 	Void
 14.2 UN proper shipping name ADR, ADN, IMDG, IATA 	Void
 14.3 Transport hazard class(es) 	
· ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
 14.5 Environmental hazards: Marine pollutant: 	No
 14.6 Special precautions for user 	Not applicable.
 14.7 Maritime transport in bulk according to IM instruments 	O Not applicable.
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** "BPR" Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

Regulation (EU) 2016/131 of 1 February 2016 approving C(M)IT/MIT (3:1) as an existing active substance for use in biocidal products for product-types 2, 4, 6, 11, 12 and 13.

HSE EH40/2005 Workplace Exposure Limits (as amended)

Guidance on the classification and assessment of waste | Technical Guidance WM3 (1st edition 2015) "GB- CLP" UK SI 2019 No. 720 The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019

"UK- REACH" UK SI 2019 No. 758 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (Contd. on page 9)

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The Endocrine Disruptor Lists I, II, III (www.edlists.org)

 DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

 Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

- · Other regulations, limitations and prohibitive regulations No further relevant information available.
- · Substances of very high concern (SVHC) according to EU REACH, Article 57 Not applicable.
- · Substances of very high concern (SVHC) according to UK REACH Not applicable.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H301 Toxic if swallowed.

- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Department issuing SDS:

Prepared and verified in accordance with Annex II, Part A, 0.2.3. of "UK- REACH" UK SI 2019 No. 758 The UK REACH etc. (Amendment etc.) (EU Exit) Regulations 2019

Date of previous version: 08.06.2023

· Version number of previous version: 8

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(Contd. of page 9) Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity - Category 3 Acute Tox. 4: Acute toxicity - Category 4 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity – Category 1 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1A: Skin sensitisation - Category 1A Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 * Data compared to the previous version altered.

GB-

Plasterboards



1. Identification Of The Substance Or Preparation And Company

Regular (RG)	Fire Rated Moisture Resistant Fire Wall (FRMR)	Glass Mat (GM)	
Moisture Resistant (MR)	Fire Rated Moisture Resistant Core (FRMRC)		
Fire Rated (FR)	ΙΜΡΑCΤ	IMPACTMMR	
Company	EL-KHAYYAT GYPSUM. CR No. 4030169349, PO Box 003300, Postal Code 21471 Jeddah, Saudi Arabia Factory: 4077, Light Industries Area, Yanbu 46459, Saudi Arabia		
2. Composition / Information Of Ingredients	 General Composition: Plasterboard: Calcium sulphate dehydrates encased within paper liners. Additionally nominal amounts of additives such as: starch, foaming agent and dispersants. Fire Rated , Fire Rated Moisture Resistant board, Fire Rated Moisture Resistant Core board , IMPACT board and Glass Mat board: also contains some glass fibre and vermiculite. Moisture Resistant board, Fire Rated Moisture Resistant Core board and Glass Mat board: also contains some wax. 		
3. Hazards Identification	These products are defined as non-hazardous Sawing and sanding of plasterboard will generate gypsum dust, which may irritate skin, eyes and the respiratory system.		
4. First Aid Measures	Inhalation: Remove person to fresh air. Skin contact: Rinse using clean water and then wash using soap & water. Eye contact: Wash with clean water and seek medical advice if irritation persists. Ingestion: Wash out month and drink plenty of clean water		

Please note: Should any symptoms persist obtain medical assistance.

Material Safety Data Sheet

Plasterboards



5. Fire Fighting Measures	Plasterboard has limited combustibility; how-ever paper facings and packaging may burn. All standard fi re extinguishers are suitable, using normal fi re fighting procedures.
6. Accidental Release Measures	Prevent these products from contaminating drains, watercourses, ground or soil.
7. Handling And Storage	When manually handling plasterboards, give consideration of the correct manual handling technique to avoid risk of injury, two persons should carry one plasterboard as shown below.

When moving packs of plasterboard, these should be moved using a folk lift truck or hydraulic trolley, care should be taken to ensure that the machinery is safely capable of such movements and that the operator is trained and competent. Plasterboard should be stored in dry flat conditions, if supported on bearers these should not exceed 400mm maximum centres. Plasterboard is not a suitable product to be used as a platform or deck, it will not support body weight and therefore it is important that installers use an independent support mechanism.



8. Exposure Controls / Personal Protection	Occupational Exposure Limits taken from EH40/94 Occupational Exposure Standard (OES)		
	Substance	Total inhalable	Total respire able
	Gypsum Limestone	10 mg/m3 10 mg/m3	4 mg/m3 4 mg/m3
	Maximum Exposure Lir	nit (MEL) (based on 8 hou	ur TWA period)
-	Substance	MEL	
	Quartz Man Made Mineral Fibre	0.3 mg/m3 5 mg/m3	
	 Personal protection Respiratory: Area should have adequate ventilation and dust extraction, if not a dust mask is recommended. Eye: Safety glasses are recommended when dust is likely to occur. Skin: Wear overalls and suitable clothing to avoid repeated skin contact. Hands: To limit the effect wear protective gloves. Note: Safety equipment should be in accordance with International or local standards 		

Plasterboards



9. Physical And Chemical Properties

Appearance

Paper faced flat sheet that are available in a range of thicknesses, widths and lengths, with edge profiles being either square or tapered edged. Paper colour varies depending on board type.

	Weights defined for reference		
	Board Type	Thickness (mm)	Weight (Average) Kg/m2
	Regular (RG)	12.5 15	8.6 11.4
	Moisture Resistant (MR)	12.5 15	8.6 11.4
	Fire Rated (FR)	12.5 15	8.60 11.40
	Fire Rated Moisture Resistant (FRMR)	12.5 15	8.60 11.40
	Fire Rated Moisture Resistant Core (FRMRC)	25	21.6
	EL-KHAYYAT Glass Mat (GM)	12.5 15	
10. Stability And Reactivity	Stable and non-reactive with other bui	lding materials.	
11. Toxicological Effects	No known toxicological effects.		
12. Ecological Information	Stable product with no known adverse	effect.	
13. Disposal Considerations	Authorised landfill site in accordance v	vith Middle East	requirements
14. Transport Information	Not classified as hazardous for transpo	rt.	

Metal Selections



1. Identification Of The Substance Or Preparation And Company

Metal Section

Company	EL-KHAYYAT GYPSUM. CR No. 4030169349, PO Box 003300, Postal Code 21471 Jeddah, Saudi Arabia Factory: 4077, Light Industries Area, Yanbu 46459, Saudi Arabia
2. Composition / Information Of Ingredients	Mild steel sections coated with zinc electrolytic process or hot dip galvanised process. The sections may have a protective fi lm of a roll forming hydrocarbon (oil/paraffin etc) lubricant or a residue or cutting fluid.
3. Hazards Identification	These products are not classified as hazardous. There is a risk of cuts and abrasions from sharp edges or protrusions when handling metal sections and also when they have been fitted to floors and walls but have not yet had plasterboard fitted to them. There is also a risk from tensioned bandaging. Due to the residue of lubricant/rust inhibitors, frequent handling may cause skin problems. Irritant fumes evolved during any welding or mechanical cutting can cause metal fume fever.
4. First Aid Measures	Inhalation of dust/ fumes: Remove person to fresh air. Skin contact with dust/ surface agents: Rinse using clean water and then wash using soap & water.
Please note: Should any symptoms persist obtain medical assistance.	minutes and obtain medical advice if irritation persists. Ingestion of dust/fumes: Wash out mouth and drink plenty of clean water. Do not induce vomiting.
5. Fire Fighting Measures	Although metal sections are non-flammable, the protective coating or lubricant may be flammable. This should be extinguished with carbon dioxide, dry powder, foam, sand, earth or plaster.
6. Accidental Release Measures	Control and collect any metal dust, sweep up and shovel into bags.
7. Handling And Storage	Safety glasses should be worn when using hand or mechanical tools. Gloves should be worn when handling metal sections to avoid risk of lacerations. Sections which are fixed to the floor/wall may have sharp edges exposed, so care should be taken to protect people from accidental contact. Sections supplied in bundles, small packs and strapped together in large packs for forklift truck off-loading, should be stacked in a safe and stable manner. Bands or straps should not be used for lifting. Coils/metal sections may spring apart when banding is released. Installer must work from an independent support system as metal sections are not designed to support body weight.

Metal Selections



1. Identification Of The Substance Or Preparation And Company

Metal Section

Company	EL-KHAYYAT GYPSUM. CR No. 4030169349, PO Box 003300, Postal Code 21471 Jeddah, Saudi Arabia Factory: 4077, Light Industries Area, Yanbu 46459, Saudi Arabia
2. Composition / Information Of Ingredients	Mild steel sections coated with zinc electrolytic process or hot dip galvanised process. The sections may have a protective fi lm of a roll forming hydrocarbon (oil/paraffin etc) lubricant or a residue or cutting fluid.
3. Hazards Identification	These products are not classified as hazardous. There is a risk of cuts and abrasions from sharp edges or protrusions when handling metal sections and also when they have been fitted to floors and walls but have not yet had plasterboard fitted to them. There is also a risk from tensioned bandaging. Due to the residue of lubricant/rust inhibitors, frequent handling may cause skin problems. Irritant fumes evolved during any welding or mechanical cutting can cause metal fume fever.
4. First Aid Measures	Inhalation of dust/ fumes: Remove person to fresh air. Skin contact with dust/ surface agents: Rinse using clean water and then wash using soap & water.
Please note: Should any symptoms persist obtain medical assistance.	minutes and obtain medical advice if irritation persists. Ingestion of dust/fumes: Wash out mouth and drink plenty of clean water. Do not induce vomiting.
5. Fire Fighting Measures	Although metal sections are non-flammable, the protective coating or lubricant may be flammable. This should be extinguished with carbon dioxide, dry powder, foam, sand, earth or plaster.
6. Accidental Release Measures	Control and collect any metal dust, sweep up and shovel into bags.
7. Handling And Storage	Safety glasses should be worn when using hand or mechanical tools. Gloves should be worn when handling metal sections to avoid risk of lacerations. Sections which are fixed to the floor/wall may have sharp edges exposed, so care should be taken to protect people from accidental contact. Sections supplied in bundles, small packs and strapped together in large packs for forklift truck off-loading, should be stacked in a safe and stable manner. Bands or straps should not be used for lifting. Coils/metal sections may spring apart when banding is released. Installer must work from an independent support system as metal sections are not designed to support body weight.

Paper Tape



1. Identification Of The Substance Or Preparation And Company

EL-KHAYYAT Paper Tape EL-KHAYYAT Corner Tape

Company	EL-KHAYYAT GYPSUM. CR No. 4030169349, PO Box 003300, Postal Code 21471 Jeddah, Saudi Arabia Factory: 4077, Light Industries Area, Yanbu 46459, Saudi Arabia
2. Composition / Information Of Ingredients	<i>General composition:</i> Rigid Polyvinyl Chloride, Cellulose, Lapenus Fibres, Fibre Glass.
3. Hazards Identification	None identified.
4. First Aid Measures	None applicable.
5. Fire Fighting Measures	If forced to burn by another source, product releases traces of hydrogen chloride and other irritating fumes. Fire fighters are recommended to use self-contained breathing apparatus.
6. Accidental Release Measures	None applicable.
7. Handling And Storage	Tapes must be stored in dry conditions
8. Exposure Controls/ Personal Protection	None identified
9. Physical And Chemical Properties	Appearance: White semi-rigid tape on roll. Specific gravity: 1.3-1.5 Insoluble product.
10. Stability And Reactivity	Stable and non-reactive with other building materials.
11. Toxicological Effects	No known toxicological effects.
12. Ecological Information	Not readily biodegradable.
13. Disposal Considerations	Authorised landfill site in accordance with Middle East requirements
14. Transport Information	Not classified as hazardous for transport.



Jointing Compound and Adhesive

1. Identification Of The Substance Or Preparation And Company

Handy Coat Jointing Compound Exceed Bond Compound

Company	EL-KHAYYAT GYPSUM. CR No. 4030169349, PO Box 003300, Postal Code 21471 Jeddah, Saudi Arabia Factory: 4077, Light Industries Area, Yanbu 46459, Saudi Arabia	
2. Composition / Information Of Ingredients	<i>General Composition:</i> Calcium sulphate hemihydrate and limestone. May include minor amounts of quartz. Jointing products may include small amounts of binders and workability additives.	
3. Hazards Identification	These products are defined as non-hazardous. Dust/powder may irritate the skin, eyes and respiratory system.	
4. First Aid Measures	Inhalation: Remove person to fresh air. Skin contact: Wash skin thoroughly with soap and clean water, obtain medical advice if irritation occurs.	
Please note: Should any symptoms persist obtain medical assistance.	irritation persists. Ingestion: Wash out mouth and drink plenty of clean water. Do not induce vomiting.	
5. Fire Fighting Measures	Products are fi re resistant, though packaging may burn. All standard fire extinguishers are suitable, using normal fi re fighting procedures.	
6. Accidental Release Measures	Prevent these products from contaminating drains, watercourses, ground or soil as a powder or slurry. Brush dry spillages. Shovel as appropriate and bag for disposal taking care not to raise excessive dust. Wet spillages should be contained and absorbed with sand or earth then scraped and cleaned up. Hot water and detergent can be used to clean residues.	
7. Handling And Storage	When manual handling care should be taken to lift bags correctly. One person should only carry 1 bag at a time to minimize risk of injury. Wear suitable clothing and gloves when handling products and avoid prolonged contact with skin. Products are supplied in bags and packed together in large packs for forklift truck off-loading. Re-stack bags in a safe and stable manner. Bags nominally weight 20kg Bags must be stored in dry conditions and protected from humid conditions.	

Jointing Compound and Adhesive



8. Exposure Controls/ Personal Protection	Occupational Exposure Limits taken from EH40/94 Occupational Exposure Standard (OES)		
	Substance	Total inhalable	Total respire able
	Plaster Limestone Mica	10 mg/m3 10 mg/m3 10 mg/m3	4 mg/m3 4 mg/m3 0.8 mg/m3
	Maximum Exposure Limi	it (MEL) (based on 8 hou	ır TWA period)
	Substance	MEL	
	Quartz	0.3 mg/m3	
	 Personal protection Respiratory: Area should have adequate ventilation and dust extraction, if not a dust mask is recommended. Eye: Safety glasses are recommended when dust is likely to occur. Skin: Wear overalls and suitable clothing to avoid repeated skin contact. Hands: To limit the effect, wear protective gloves when possible. Note: Safety equipment should be in accordance with international or local standards. 		
9. Physical And Chemical Properties	Appearance: Dry Powder. Odour: Odourless pH: 7 to 11		
10. Stability And Reactivity	Stable and non-reactive with other building materials.		
11. Toxicological Effects	Inhalation of dust may cause short term irritation of the respiratory system. Prolonged contact with skin may lead to dry skin. No significant reaction will be noticed if small amounts of product are swallowed.		
12. Ecological Information	Stable product with no known adverse effects		
13. Disposal Considerations	Authorised landfill site in accordance with Middle East requirements		
14. Transport Information	Not classified as hazardous for transport.		
15. Accidental Release Measures	This product is only intended for use as defined within current literature, please contact EL-KHAYYAT Technical team if further information is required. This data sheet does not replace the users own workplace risk assessment.		



Jointing Compound and Adhesive

1. Identification Of The Substance Or Preparation And Company

EL-KHAYYAT Magnum R100

Company	EL-KHAYYAT GYPSUM. CR No. 4030169349, PO Box 003300, Postal Code 21471 Jeddah, Saudi Arabia Factory: 4077, Light Industries Area, Yanbu 46459, Saudi Arabia	
2. Composition / Information Of Ingredients	General Composition: Limestone and mica based, containing small amounts binders and workability additives. Ready mix products are water based.	
3. Hazards Identification	Skin irritation or dryness may be caused by prolonged contact with dust or emulsion. Eyes and respiratory may be irritated by dust from sanding set joints.	
4. First Aid Measures	Inhalation: Remove person to fresh air. Skin contact: Wash skin thoroughly with soap and clean water, obtain	
Please note: Should any symptoms persist obtain medical assistance.	Exercise advice of irritation persists. Eye contact: Wash eyes with clean water and seek medical advice. Ingestion: Wash out mouth and drink plenty of clean water. Do not induce vomiting.	
5. Fire Fighting Measures	Products are fire resistant, though packaging may burn. All standard fire extinguishers are suitable, using normal fi re fighting procedures.	
6. Accidental Release Measures	Prevent these products from contaminating drains, watercourses, ground or soil as a powder or slurry. Wet spillages should be contained and absorbed with sand or earth then scraped and cleaned up. Hot water and detergent can be used to clean residues.	
7. Handling And Storage	 When manual handling care should be taken to lift buckets correctly. One person should only carry 1 bucket at a time to minimize risk of injury. Wear suitable clothing and gloves when handling products and avoid prolonged contact with skin. Products are supplied in buckets and packed together in large packs for forklift truck offloading. Re-stack buckets in a safe and stable manner. Bucket nominally weight 28kg Bucket must be stored in dry conditions. 	

Jointing Compound and Adhesive



8. Exposure Controls/ Personal Protection	Occupational Exposure Limits taken from EH40/94 Occupational Exposure Standard (OES)		
	Substance	Total inhalable	Total respire able
	Plaster Limestone Mica	10 mg/m3 10 mg/m3 10 mg/m3	4 mg/m3 4 mg/m3 0.8 mg/m3
	 Personal protection Respiratory: Area should have adequate ventilation and dust extraction, if not a dust mask is recommended. Eye: Safety glasses are recommended when dust is likely to occur. Skin: Wear overalls and suitable clothing to avoid repeated skin contact. Hands: To limit the effect, wear protective gloves when possible. Note: Safety equipment should be in accordance with international or local standards. 		
9. Physical And Chemical Properties	Appearance: Wet slurry Odour: Odourless pH: 7 to 9		
10. Stability And Reactivity	Stable and non-reactive with other building materials when stored correctly		
11. Toxicological Effects	Excessive dust produced by sanding joints may irritate respiratory system. Prolonged skin contact may cause irritation and lead to dermatitis. Splashes may cause irritation to eyes. Swallowing a small amounts or wet mix should not cause any significant reaction or long-term effect.		
12. Ecological Information	Aquatic toxicity is not determined but avoid contamination with watercourses.		
13. Disposal Considerations	Authorised landfill site in accordance with Middle East requirements		
14. Transport Information	Not classified as hazardous for transport.		
15. Accidental Release Measures	This product is only intend please contact EL-KHAYYA required. This data sheet o assessment.	led for use as defined w T Technical team if furth does not replace the use	ithin current literature, ner information is ers own workplace risk

TEST REPORT

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Notes:





Mass-air-mass resonant frequency = =44 Hz Panel Size = 2.7 m x4 .0 m Partition surface mass = 36.5 kg/m'

System description

Panel 1 : 2 x 12.5 mm El-Khayyat FR

Frame: Double Steel Stud (50 mmx32 mm), Stud spacing 600 mm; Cavity Width 150 mm, 2 x Glass Wool (16Kg/m3) Thickness 50 mm Panel 2 : 2 x 12.5 mm El-Khayyat FR

freq.(Hz)	TL(dB)	TL(dB)
50	13	
63	20	17
80	27	
100	33	
125	39	37
160	44	
200	49	
250	54	52
315	58	
400	63	
500	68	66
630	71	
800	73	
1000	76	75
1250	78	
1600	78	
2000	74	67
2500	63	
3150	68	
4000	74	72
5000 S	80	



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Notes:



Mass-air-mass resonant frequency = =79 Hz Panel Size = 2.7 m x 4.0 m Partition surface mass = 43.7 kg/m'

System description

Panel 1 : 1x 25 mm EI-Khayyat 25 mm Core Board

Frame: Montante CH (64 mm x 34 mm), Stud spacing 600 mm ;Cavity Width 39 mm , 1 xGlass Wool (24Kg/m3) Thickness 50 mm Panel 2 : 2 x 15 mm El-Khayyat FR

(
freq.(Hz)	TL(dB)	TL(dB)
50	22	
63	22	20
80	18	
100	20	
125	27	24
160	33	
200	38	
250	42	40
315	45	
400	47	
500	49	49
630	51	
800	53	
1000	54	53
1250	54	
1600	51	
2000	59	54
2500	56	
3150	47	
4000	51	50
l 5000	55	



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Notes:





Mass-air-mass resonant frequency = = 79 Hz Panel Size = 2.7 mx 4.0 m Partition surface mass = 43.7 kg/m'

System description

Panel 1 : 1 x 25 mm EI-Khayyat 25 mm Core Board

Frame: Montante CH (152 mmx 34 mm), Stud spacing 600 mm; Cavity Width 39 mm, 1 x Glass Wool (16kg/m3) Thickness 50 mm Panel 2:2 x 15 mm EI-Khayyat FR

freq.(Hz)	TL(dB)	TL(dB)
50	22	
63	22	20
80	18	
100	20	
125	27	24
160	33	
200	38	
250	42	40
315	45	
400	47	
500	49	49
630	51	
800	53	
1000	54	53
1250	54	
1600	51	
2000	59	54
2500	56	
3150	47	
4000	51	50
l 5000	55	



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Notes:



Mass-air-mass resonant frequency = =44 Hz Panel Size = 2.7 mx4 .0 m Partition surface mass = 36.5 kg/m'

System description

Panel 1 : 2 x 12.5 mm El-Khayyat FR and El-Khayyat FRMR

Frame: Double Steel Stud (50 mm x32 mm), Stud spacing 600 mm; Cavity Width 150 mm, 2 x Glass Wool (16Kg/m3) Thickness 50 mm Panel 2:2 x 12.5 mm El-Khayyat FR and El-Khayyat FRMR

freq.(Hz)	TL(dB)	TL(dB)
50	13	
63	20	17
80	27	
100	33	
125	39	37
160	44	
200	49	
250	54	52
315	58	
400	63	
500	68	66
630	71	
800	73	
1000	76	75
1250	78	
1600	78	
2000	74	67
2500	63	
3150	68	
4000	74	72
l 5000	80	



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System description

Panel 1 : 2 x 12.5 mm Gboard REG

Frame: Steel Stud (50 mmx 34 mm), Stud spacing 600 mm; Cavity Width 50 mm Panel 2 $\,$: 2 \times 12.5 mm Gboard REG



Notes:



Mass-air-mass resonant frequency = =88 Hz Panel Size = 2.7 mx 4.0 m Partition surface mass = 36.1 kg/m

	freq.(Hz)	TL(dB)	TL(dB)	
	50	21		
	63	20	20	
	80	19		
	100	14		
	125	21	18	
	160	28		
	200	33		
	250	38	36	
	315	42		
	400	45		
	500	49	48	
	630	52		
	800	54		
	1000	57	56	
	1250	60		
	1600	60		
	2000	58	52	
	2500	48		
	3150	48		
	4000	53	51	
ļ	5000 J	58		



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System description

Panel 1 : 2 x 12.5 mm El-Khayyat MR

Frame: Steel Stud (150 mmx 34 mm), Stud spacing 600 mm; Cavity Width 150 mm Panel 2 $$: 2 x 12.5 mm El-Khayyat MR



Notes:



Mass-air-mass resonant frequency = =49 Hz Panel Size = 2.7 m x 4.0 m Partition surface mass = 38.6 kg/m'

freq.(Hz)	TL(dB)	TL(dB)
50	10	
63	11	12
80	20	
100	27	
125	32	30
160	37	
200	41	
250	44	43
315	48	
400	50	
500	52	52
630	54	
800	56	
1000	58	58
1250	59	
1600	60	
2000	56	49
2500	45	
3150	49	
4000	54	52
5000	59	



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200 n

Notes:





Mass-air-mass resonant frequency = =43Hz Panel Size = 2.7 mx4.0 m Partition surface mass = 39 kg/m'

System description

Panel1:2x12.5mmEl-Khayyat MR

Frame:Steel Stud(150mmx34mm),Studspacing600mm;CavityWidth150mm

Panel2:2x12.5mmEl-KhayyatMR

freq.(Hz)	TL(dB)	TL(dB)
50	14	
63	22	18
80	29	
100	35	
125	40	38
160	46	
200	50	
250	55	53
315	59	
400	64	
500	69	67
630	72	
800	74	
1000	77	76
1250	79	
1600	79	
2000	74	67
2500	62	
3150	69	
4000	75	73
5000	81	


Sound Insulation Prediction (v9.0.22)

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Notes:



Mass-air-mass resonant frequency==58 Hz Panel Size = 2.7 mx 4.0 m Partition surface mass = 52.8 kg/m

System description

Panel 1:1x 12.5 mmEI-Khayyat MR + 1 x 12.5 EI-Khayyat Glass Mat

Frame: Steel Stud + resil. rail (50 mmx 32 mm), Stud spacing 600 mm; Cavity Width 62 mm, 1x Rockwool (50kg/m3) Thickness 50 mm

Panel 2 : 1x12.5mm El-Khayyat MR + 1 x 12.5 El-Khayyat Glass Mat

freg.(Hz)	TL(dB)	TL(dB)
50	20	
63	16	19
80	23	
100	31	
125	37	35
160	43	
200	48	
250	53	51
315	57	
400	61	
500	64	63
630	68	
800	70	
1000	72	72
1250	74	
1600	74	
2000	73	65
2500	61	
3150	61	
4000	65	64
l 5000	69	



FIRE TEST

23 December, 2024 Test Report Reference: 2212241





Fire Tests of Building Construction and Materials

Test Report

According to ASTM C1396 and ASTM E119-24.

Gypsum board wall partition



Prepared by: Advanced Construction Technology Services KSA - Fire Testing Division

Client: El-khayyat Gypsum Factories

Test Assembly: Gypsum board wall partition

Test Report Reference: 2212241

Build on our credentials	Test Report			
acts@acts-int.com www.acts-int.com	Fire Resistance Rating Test According to ASTM E119-24 and ASTM C1396 requirements			
	Revision: 0	Date: 23 Dec 2024	Author: Mohammed Ghouse	
المركز السعودي للاعتماد Saudi Accreditation Center	Client: El-khayyat Gypsum Factories 4077, Light Industrial Park, Yanbu 46459 <u>yasser.j@el-khayyat.com</u> +966 551969300		Project:Test Object:Gypsum board wallpartition (double-layer cladding)Project Reference:2212241Sample Reference:001Number of Pages:17	
INTERNATIONAL ACCREDITATION SERVICE** ISO 17025:2017 Accredited TL-788	Test Location: Advanced Cons Services (ACT) Fire Testing La Saudi Arabia Tel: 009661389	struction Technology S) boratory, Dammam, 967147	Test Program:ASTM C1396 & ASTM E119-24Test Specimen Received:21 Dec, 2024Testing Date:22 Dec, 2024	
Abstroat				

Abstract

The fire resistance test was conducted for a gypsum board wall partition (double-layer cladding) produced by El-Khayat gypsum factories according to the standard requirements of ASTM C1396, ASTM E119, and client requirements. A non-loadbearing gypsum board wall partition was installed with dimensions 3000mm wide \times 3000mm high, where two cladding layers (internal and external) of gypsum double-board were applied vertically and friction fit into vertical 25-gauge steel "H" members, spaced 610 mm on centers and 25-gauge steel U-track at the perimeter of the partition. The dimensions of the single gypsum board were 2400 mm (length) x 1200 mm (width) \times 16mm (thickness).

The tested partition withstood the passage of flame for 120 minutes (2h); furthermore, with a maximum temperature of 102°C recorded for the un-exposed surface, the tested partition fulfilled the acceptance criteria for temperature rise for 2 h.

Notes

- The test results relate only to the item tested.

- The report is the client's property and cannot be given to a third party without the client's consent.

- The report shall not be reproduced except in full without the written approval of ACTS.

- ACTS recommended that the significance of this report be considered for a period of (One) year from the date of testing.

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Summary of Test Results

Fire Resistance Rating:	120 Minutes (2h)
Ambient temperature:	22 °C
Restraint options:	Gypsum board partition assembly fixed to the supporting construction; i.e., restraint at vertical and horizontal edges
Pre-conditioning:	Laboratory ambient conditions (22 °C)
Materials Properties, Construction Method, and assembly:	Sections $3-4-5-6$
Summary of Visual Observations:	Section 7
Correction Factor:	Section 8
Performance Acceptance Criteria:	Section 9
Furnace Temperature Graph:	Section 10
Furnace Pressure Graph:	Section 11
Unexposed Surface Temperature:	Section 12
Deflection sensors:	Not Applicable
Conclusion:	Section 13
Domonika	•

Remarks:

This report details the method of construction, the test conditions, and the results obtained when the specific element of construction described herein was tested following the procedure outlined in ASTM C1396 and ASTM E119-24. Any significant deviation with respect to size, constructional details, loads, stresses, edge, or end conditions other than those allowed under the field of direct application in the relevant test method is not covered in this report.

The clients witnessed the test.

The test was terminated after the 120th minute of fire exposure according to the client's requirements.

Test Report Reference: 2212241

	Test	Witnesses			
Name	Company	Phone Number	Email		
Yasser Al- Jouhni	El-khayyat Gypsum Factories	0551969300	yasser.j@el-khayyat.com		
P Moh	Prepared by: Mohammed Ghouse		Signature:		
Reviewed Hamada S	d and approved by: Shoukry Mohammed	Signature: 23/12/2024			
Re	Report Number 2212241		Classification Restricted		
			ل المالية للراستير كشان تكلولوجي سير طبق كان ل المالية للراستير كشان تكلولوجي سير طبق كان ل المالية المالية المالية ل المالية المالية المالية المالية ل المالية المالية المالية المالية المالية المالية المالية المالية المالية الم		

1. Introduction

The objective of determining fire resistance is to assess the behavior of a test specimen of an element of building construction when subjected to defined heating and pressure conditions. The method provides a means of quantifying the ability of an element to withstand exposure to high temperature, by setting criteria by which the loadbearing capacity, the fire containment (integrity) and thermal transmittance (insulation) functions can be adjudged.

This document includes the fire resistance testing of the Gypsum board wall partition provided by El-Khayyat Gypsum Factories referenced. The materials for test specimen of partition system were received in good condition by Advanced Construction Technology Services (ACTS) Fire Testing Laboratory located in Dammam, Saudi Arabia on 21 Dec 2024. The partition system was installed by the client in a heat-resistive supporting construction as detailed in this report. The partition system was subsequently tested following the guidelines presented in ASTM C1396 and ASTM E119-24. This method applies to non-loadbearing walls and partitions of various materials and types of construction for use in walls and partitions opening to retard the passage of fire.

The test made in conformity with this test method is intended to register the performance during the test exposure, but such tests shall not be construed as determined suitability for use after exposure to fire. It is the intent that tests made in conformity with these test methods allow for the development of data to enable regulatory bodies to determine the suitability of partition assemblies for use in locations where fire resistance of a specified duration is required. This method is intended to evaluate the ability of a partition system to contain a fire, and maintain its structural integrity during a predetermined test exposure.

2. Scope

The test exposes a test specimen to a standard fire exposure controlled to achieve specified temperatures throughout a specified period. The exposure, however, is not representative of all fire conditions, which vary with changes in the amount, nature, and distribution of fire loading, ventilation, compartment size and configuration, and heat sink characteristics of the compartment.

3. General Requirements of the Test Specimen and Supporting Construction

The size of the test specimen for this application shall be of 3m x 3m excluding the supports needed for the frame.

The test specimen shall satisfy the following criteria:

- The test specimen shall be fully representative of the construction intended for use in practice.
- Materials used in the construction of the test specimen were representative of the use of the element in practice.
- It is important to include appropriate surface finishes and fittings which are an essential part of the specimen and which may influence its behavior in the test.
- No variation in construction (e.g. different jointing systems) shall be included in a single test specimen.
- The test specimen shall simulate the conditions of the use of the partition construction in practice. It shall include all construction details, materials and components and shall be supported in accordance with the requirement of this section.
- The test specimen shall be installed as far as possible in a manner representative of its use in practice.

The description of the test specimen below has been prepared based on the available information provided by the client and partially verified by ACTS.

Table 1 - Test Specimen General Description

Test Specimen General Description

The test sample consisted of a light gauge steel frame (LSF) system made of cold-formed steel studs lined from each face (interior and exterior) with double gypsum boards with a total thickness of 32mm. (See Fig.1.)

Test Specimen Components			
Gypsum board			
Material	Fire-rated gypsum board		
Manufacturer	El-khayyat Gypsum Factories		
Dimensions	2400 mm (length) x 1200 mm (width)		
Thickness	16 mm		
LSF system			
Structure 25-gauge steel "H" members, spaced 610 mm on cen 25-gauge steel U-track at the perimeter of the partition shown in Fig.1.			



Figure 1 –Installation steps of Gypsum Partition

4. Supporting Construction

The specimen was installed within a rigid supporting construction made of concrete solid blocks with a nominal density of 2000 kg/m³. The structural frame was built symmetrically and has a structural opening of size 3040 mm (length) x 3040 mm (width).



Figure 2 – Partition System's un-exposed Face



Figure 3 – Partition System's exposed Face

5. Condition and Test Situation

The partition system was installed in the vertical position with the exposed surface into the furnace. The test specimen was conditioned in the laboratory to the ambient temperature of 22°C, installed in by the client with the assistance from ACTS, and instrumented with unexposed surface thermocouples and deflection lasers to measure the temperature and deflection respectively.

6. Method of Test

Different safety inspections and final checking were done to proceed with the ignition of the furnace's burners. Before the commencement of the test, the initial temperatures recorded by all thermocouples were checked to ensure consistency and the datum values were established. Similar datum values were obtained and the initial condition of the test specimen was noted. The initial average temperature of the unexposed surface temperature of the specimen was 19.2°C versus an ambient temperature of 22°C. The furnace temperature was equal to the ambient temperature at the beginning of the test. The commencement of the test was considered the moment when the program to follow the heating curve was initiated (igniting the burners). The elapsed time was measured from this point and all automatic systems for measurement and observation began at this time, and the furnace was controlled to comply with the temperature conditions mentioned in the next sections.

From the commencement of test, the following measurements and observations were taken, where appropriate.

Temperature Measurement:

Temperatures of all thermocouples were measured and recorded at intervals of 1 second for the duration of the heating period.

Pressure:

The furnace pressure was measured and recorded continuously or at intervals of 1 second.

Unexposed Surface Temperature:

The unexposed surface temperatures were measured and recorded continuously or at intervals of 1 second.

Flaming:

A cotton pad shall be employed by placing the frame within which it is mounted against the surface of the test specimen for a maximum of 30 seconds and a minimum of 10 seconds, or until ignition (defined as glowing or flaming) of the cotton pad occurs. The cotton pad shall be applied to all surfaces, including areas where either flames or hot gasses from a discontinuity, a crack or a gap are present.

The occurrence and duration of any flaming on the unexposed surface, together with the location of the flaming, shall be recorded.

Observations were made on the general behavior of the test specimen during the course of the test and notes concerning phenomena such as smoke emission, cracking, melting, softening, spalling or charring etc. of materials of the test specimen were made.

7. Summary of Visual Observations during the Test

During the Test

Table 2 summarizes the fire testing visual observations witnessed during the test.

Table 2 –	Fire	test	visual	observations	during	the	test
Table 2 -	Luc	icsi	visual	UDSCIVATIONS	uuring	une	icsi

Time (Minutes)	Observations	
0	Test commenced.	
30	No significant change.	
60	No significant change.	
90	Slight deflection.	
120	Slight-to-moderate deflection.	
121	Test terminated.	

Test Report Reference: 2212241

The picture below was taken from the laboratory:

During the test



Figure 4 - Test started



Figure 5 – Test terminated

8. Correction Factor

As per the standard, where it will affect the classification, a correction shall be applied for variation of the furnace exposure from that prescribed. The correction factor shall be applied when the indicated resistance period is ½ hour or over. Multiply the indicated period by 2/3 of the difference in area between the curve of average furnace temperature and the standard curve for the first ¾ of the period. Then divide the product by the area between the standard curve and a base line of 68°F (20°C) for the same part of the indicated period, the latter area increased by 54°F-h or 30°C-h (3240°F-min or 1800°C-min) to compensate for the thermal lag of the furnace thermocouples during the first part of the test. For fire exposure in the test higher than standard, the indicated resistance period shall be increased by the amount of the correction and be similarly decreased for fire exposure below standard.

The furnace exposure correction can be expressed by the following equation:

$$C = \frac{2I(A - As)}{3(As + L)}$$

Where:

C		correction in the same units as I
Ι	=	indicated fire-resistance period
A	=	area above a base line of 68°F (20°C) under the curve of indicated average
		furnace temperature for the first 3/4 of the indicated period
As	=	area above a base line of 68°F (20°C) under the standard furnace curve for the
		same part of the indicated period
L	=	lag correction in the same units as A and As (54°F-h or 30°C-h (3240°F-min
		or 1800°C-min))

For this test:

Ι	=	120 minutes
A	=	44672.2°C min
As	=	46069.5°C min
L	=	1800 °C min
C	=	-70 seconds

8. Acceptance Criteria in Reference to ASTM E119-24

During the test, failure is deemed to have occurred when one of the following criteria has occurred:

- The test specimen has not withstood the fire-resistance test without passage of flame or gases hot enough to ignite cotton waste, for a period equal to that for which classification is desired.
- The average temperature rise of any set of thermocouples for each class of element being protected is more than 139°C above the initial temperature.
- The temperature rise of any one thermocouple of the set for each class of element being protected is more than 181°C above the initial temperature.

The tested partition system fulfilled the performance criteria in accordance with ASTM E119-24 in terms of temperature rise and structural integrity without a hose stream.

10. Furnace Temperature

The furnace thermocouples employed to measure the temperature of the furnace were distributed so as to give a reliable indication of the average temperature in the vicinity of the test specimen. These thermocouples were positioned so that they are not in contact with the flames from the furnace burners, nine (9) thermocouples were provided in an area of 9 m² and placed 152 mm away from the exposed face of the test specimen and this distance has been maintained throughout the test duration. The average temperature of the furnace as derived from the thermocouples specified were monitored and controlled such that it complies with the temperatures stated in Table 3 below:

Duration after Fire Exposure	Furnace Temperature	Actual Furnace
(minutes)	(°C)	Temperature (°C)
5	522.4	554.4
10	682.3	664.5
20	728.2	774.9
30	808.5	833.1
45	871.3	897.4
60	910.7	939.7
120	990.8	1010

Table 3 - Furnace Temperature

The temperature was recorded at intervals of 1 second. The accuracy of the furnace control was such that the area under the time-temperature curve, obtained by averaging the results from the thermocouple readings, is within 10 percent of the corresponding area under the standard



time-temperature curve for fire tests. The average furnace temperature records are shown in Figure 6. The average temperature was compared to the requirements above.

Figure 6 - Furnace Temperature during the Test

11. Furnace Pressure

Five minutes after the commencement of the test the furnace pressure shall be \pm 5 Pa of the nominal pressure specified for the particular element under test; from 10 min onwards, it shall be \pm 3 Pa of the nominal pressure specified for the particular element under test. For a test specimen which burns rapidly, a deviation in excess of the above-mentioned tolerances on the specified furnace pressure may be exceeded for a period of maximum 5 minutes, provided that such an excess deviation is clearly identified as being associated with the sudden ignition of significant quantities of combustible materials increasing the pressure in the furnace. The pressure should be kept at slightly negative pressure. The pressure in the furnace was controlled at -2 Pa at the top height of the furnace to maintain the slightly negative pressure within the furnace. The pressure recorded from this sensor is presented in the graph below:

Test Report Reference: 2212241



Figure 7 - Furnace Pressure

12. Unexposed Surface Temperature

Where evaluation against the insulation criteria is required, surface thermocouples should be attached to the unexposed face to measure the average and the maximum temperature rise. A total of 9 thermocouples were attached to the unexposed face using thermocouple pads and heat resisting adhesive as shown in Figure 8.

Test Report Reference: 2212241



Figure 8 - Location of the Unexposed Thermocouples

The readings of mean and maximum unexposed surface thermocouples are shown in Figure 9.



Figure 9 - Average and Maximum temperature of Unexposed Surface Thermocouples

ACTS Fire Testing Laboratory, Dammam, K.S.A. Tel. No.: 00966138967147 www.acts-int.com



Figure 10 - Temperature of Unexposed Surface Thermocouples

13. Conclusions

Based on the above, the following conclusions can be made:

- The fire test of the partition system was conducted according to ASTM C1396 and ASTM E119-24 requirements.
- The test specimen was provided by the client to ACTS Fire Testing Laboratory. ACTS did not interfere in the sample selection except for the sample's test requirements.
- The test results were evaluated according to the temperature rise performance criterion as highlighted in ASTM C1396.
- The test results were valid for test configuration only and do not imply any product certification and/or classification.
- The tested gypsum board wall partition (double-layer cladding) fulfilled the performance criteria of ASTM E119-24 "Standard Test Methods for Fire Tests of Building Construction and Materials" for the given requirement rating of 120 minutes (2h) without Hose stream.

****End of Report****

Regular Test Report

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FLEXURAL STRENGTH OF REGULAR GYPSUM BOARD - TEST REPORT

Client	El Khay	El Khayyat for Gypsum, Saudi Arabia			01 June 2016
Project	El-Khayyat Gypsum Factories, LIP Area, MYAS			Job No.	SA14-9571
Material Desc	cription Regular Gypsum Wallboard			Lab No.	1088/1
Test Method	ASTM C-473-12 Sample			Received by FSL	05 April 2016
Product Description	Regular	Gypsum Wallboard	Sampled by	El-Khayyat Gypsum	

Fugro-Suhaimi Ltd. (FSL) has performed standard testing on samples of regular gypsum board to determine the flexural strength. The testing was carried out by supporting the specimen near the ends and applying a transverse load midway between the supports at a uniform rate. The test results and pertinent information are as follows:

Specified Dimensions (mm) (Nominal)	Measured Dimensions (mm) (Average)	Permissible Tolerances (mm) (ASTM C-1396 Requirements	
Length : 2400	2400	± 6	
Width : 1200	1200	- 3	
Thickness : 12.5	12.5	± 0.4	
2. FLEXURAL STRENGTH (Meth	od A-Constant Rate of Loading), ((Tested Face Up and Face Down)	
(Bearing Edges Perpendicular to Panel Length) Test Specimens	Breaking Load (N)	ASTM C-1396-14 Specification Requirements	
S-1	491		
S-2	493		
S-3	490		
S-4	488		
Average Value	491	489 (Minimum)	
3. FLEXURAL STRENGTH (Meth	od A-Constant Rate of Loading), ((Tested Face Up and Face Down)	
(Bearing Edges Parallel to Panel Length) Test Specimens	Breaking Load (N)	ASTM C-1396-14 Specification Requirements	
S-1	274	-	
S-1	282	-	
S-3	277	-	
S-4	274	-	
Average Value	277	178 (Minimum)	

Remarks: The test results indicated **conformance** to the ASTM C-1396-14 Specification requirement for the flexural strength.

125263 Small Material Division Approved by (Western Prov. Lab. 27)

SYED ARSHADULLAH

BRANCH MANAGER-YANBU

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Moisture-resistant Test Report

FUGRO-SUHAIMI LTD. Lot # 012, Block # 03, P.O. Box. 31720 Haii Al-Mehan, Shareh Nahawand Royal Commission, Madinat Yanbu Al-Sinaiyah, KSA Saudi Arabia – E-mail : fslyanbu@fsl-sa.com Fax. : (014) 321 0963 Tel. :(014) 396 2173





FLEXURAL STRENGTH, WATER ABSORPTION OF MOISTURE-RESISTANT GYPSUM SHEATHING BOARD - TEST REPORT

Client	El Khay	El Khayyat for Gypsum, Saudi Arabia Report			01 June 2016
Project	El-Khayyat Gypsum Factories, LIP Area, MYAS Job No.				SA14-9571
Material Desc	ription	Gypsum Sheathing Board		Lab No.	1088/3
Test Method	ASTM C-473-12		Sample R	eceived by FSL	05 April 2016
Product Description	Water-I	Resistant Gypsum Sheathing Board		Sampled by	El-Khayyat Gypsum

Fugro-Suhaimi Ltd. (FSL) has performed standard testing on samples of gypsum sheathing board to determine the flexural strength and water absorption. The flexural strength testing was carried out by supporting the specimen near the ends and applying a transverse load midway between the supports at a uniform rate. The water absorption of the gypsum sheathing board specimens is determined after conditioning and subsequently immersing the specimens in water for the specified 2 hours elapsed time. The test results and pertinent information are as follows:

1. DIMENSION OF FULL-SIZE SH	IEATHING G	YPSUM BOARD		
Specified Dimensions (mm) (Nominal)	Specified Dimensions (mm) Measured D (A)		Permissible Tolerances (mm) (ASTM C-1396 Requirements)	
Length: 2400		2400	± 6	
Width : 1200		1200	- 3	
Thickness : 12.5		12.5	± 0.4	
2. FLEXURAL STRENGTH (Meth	od A-Constant	t Rate of Loading), (Te	sted Face Up and Face Down)	
(Bearing Edges Perpendicular to Panel Length) Test Specimens		Prositing Lood (N)	ASTM C-1396-14	
		Breaking Load (N)	Specification Requirements	
S-1		503		
S-2		498		
S-3		486		
S-4	S-4			
A	verage Value	494	489 (Minimum)	
3. FLEXURAL STRENGTH (Metho	od A-Constant	t Rate of Loading), (Te	sted Face Up and Face Down)	
(Bearing Edges Parallel to Panel	Length)	Breaking Log J (N)	ASTM C-1396-14	
Test Specimens		Breaking Load (N)	Specification Requirements	
S-1		274	-	
S-1		282		
S-3		279	-	
S-4		282	-	
A	verage Value	279	178 (Minimum)	

Cont. Next Page 1 of 2



MOSITURE RESISTANCE TEST

Custom Test sta	wer andard		: E	Khayyat (IN EN 520	Gypsum C	ia. 1	type of gype	um plaste	rboard	Water F	Resistance
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1.2	400	300	12.5	5	62	21	146.97				
1.3	400	300	12.5	5	61	11	144.54				
2.1	400	300	12.5	5	26	12	61.39				
2.2	400	300	12.5	5	28	38	69.40				
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Water Resistant 23-5-2012.zs2

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PHYSICAL TESTING OF GYPSUM PANEL

FUGRO-SUHAIMI CO. LTD. Lot # 012, Block # 03, P.O. Box. 31720 Haii Al-Mehan, Shareh Nahawand Royal Commission, Madinat Yanbu Al-Sinaiyah, KSA Saudi Arabia – E-mail : fslyanbu@fugro-suhaimi.com

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PHYSICAL TESTING OF GYPSUM PANEL PRODUCTS - TEST REPORT

Client	El-Khayyat Gypsum Company	Report Date	09-Oct-2024		
Project	El-Khayyat Gypsum Company, Yanbu Al-Sinaiyah	Order No.	YNB-CMT-MO-24-00348		
Source /Supplier	El-Khayyat Gypsum Company	Report No.	YNB-CMT-MR-24-01804		
Sampled by	Client	Job No	24-56-9510		
Test Method	ASTM C473-19	Lab No	12555		
Client Contact	Eumar.balubar@el-khayyat.com	Date Tested	02-Oct-2024		
Material Description	Gypsum Board Fire T/E; 12.5mm X 1200mm X 2400mm (JS.10044 EN520 Made in KSA 20:32:48; 30/08/2024)				

FSCL has performed standard testing on the samples of gypsum board to determine the physical properties as per the client request. The testing was carried out in accordance with the procedures outlined in ASTM C473-19 "Standard Test Method for Physical Testing of Gypsum Panel Products". The test results and pertinent information are as follows:

Specified Dimensions	TEST RESULTS	Permissible Tolerances
(Nominal)	Measured Dimensions (Average)	*(SASO-ASTM C1396M-17 Requirements)
Length : 2400 mm	2400	± 6
Width : 1200 mm	1200	- 3
Thickness : 12.5 mm	12.2	± 0.4
1.1 End Squareness	TEST RESULT	*SASO-ASTM C1396M-17 Specification Requirements
End Squareness, Average	0.5	± 3 mm
1.2 Tapered Edge Depth	TEST RESULT	*SASO-ASTM C1396M-17 Specification Requirements
Tapered-Edge Depth, Average	1.23	Not less than 0.51 mm Not more than 2.29 mm
2. Core, End and Edge Hardness (Method B)	TEST RESULTS	*SASO-ASTM C1396M-17 Specification Requirements
Average Core Hardness (Test Specimen No. S-1)	87	49 N (Min.)
Average End Hardness (Test Specimen No. S-2)	86	49 N (Min.)
Average Edge Hardness (Test Specimen No. S-3)	97	49 N (Min.)
3. Average Nail Pull Resistance (Method B)	TEST RESULTS	*SASO-ASTM C1396M-17 Specification Requirements
Test Specimen No. S-1	344	
Test Specimen No. S-2	345	
Test Specimen No. S-3	346	-
Average :	345	343 N (Min.)





M. Li



Approved By: Dhinesh Muniappan

Checked By: Mardy Rivera

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PHYSICAL TESTING OF GYPSUM PANEL

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Page 2 of 2
Client:
Lab No.
Report Date:

4. FLEXURAL STRENGTH (M	lethod B)		
(Bearing Edges Parallel to (Transverse Direc	Panel Length) tion)	TEST RESULTS	*SASO-ASTM C1396M-17
Test Specimens		Breaking Load	Specification Requirements
(Tested Face Up)	S-1	219 N	-
(Tested Face Down)	S-2	251 N	-
	Average :	235 N	160 N (Minimum)
5. FLEXURAL STRENGTH (M	lethod B)		
(Bearing Edges Perpendicular to Panel Length) (Longitudinal Direction)		TEST RESULTS	*SASO-ASTM C1396M-17
Test Specimen	IS	Breaking Load	Specification Requirements
(Tested Face Up)	S-1	478 N	-
(Tested Face Down)	S-2	511 N	-
	Average :	495 N	476 N (Minimum)
6. SURFACE WATER ABSOR	PTION		
Test Specimen	IS	TEST RESULTS	**BS EN 520-2005 Specification Requirements
Surface Water Absorption after Elapsed Time	r 2 hours S-1	115	
Surface Water Absorption after Flapsed Time	2 hours S-2	129	-
Surface Water Absorption after 2 hours Elapsed Time S-3		138	
7	Average :	127 g	180 g/m² (Max.)
7. Humidified Deflection		TEST RESULT	*SASO-ASTM C1396M-17 Specification Requirements
Average Deflection		9.5	32 mm (Max.)

*ASTM C1396-17 "Standard Specification for Gypsum Board" **BS EN 520-2005 "Standard Specification for Gypsum Plasterboard"

Note:	The test specimens were conditioned to constant weight at the temperature of $29.5 \pm 8.5^{\circ}$ C and relative humidity of $50 \pm 2\%$ prior to start of testing.
Remarks	The test results described here in conducted on the samples of gypsum board conforms to the ASTM C1396- 17 Specification requirements for the physical properties. The tested samples also conforms to the BS EN 520 Specification requirement for the surface water absorption.





Checked By: Mardy Rivera



M. Li



Approved By: Dhinesh Muniappan



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🗌 B - معتمد مع ملاحظات إعادة التقديم غير ضرورية

🗆 D - غير معتمد (مرفوض)

توصيات المطور :

A - معتمد (مقبول)
 C - غير معتمد ويجب إعادة التقديم

محتويات هذا النموذج معتمدة وغير قابلة قابلة للتعديل إلا بالرجوع لإدارة المشروع

PM-MV-04

التوقيع:

التاريخ:

4

مدير المشروع (المطور):

الأسم :

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Building Construction Company King Faisal Street, Al Rawabi P.O Box 30730 Khobar, Ash Sharqīyah 31952 P: +966138013939 F: +966138967916

Submittal #BCC-NTJ-07819.0 - GYPSUM BOARD and ceiling system (EL-KHAYYAT)

Distribution Summary

Distributed by Ahmed Abdulfattah (Building Construction Company) on 2 Jan, 2025

То	Rafeeq Hussain (Building Construction Company), Mohammed Maaragi (Building Construction Company)
Message	None

Attachments BCC-NTJ-07819 (2).pdf, BCC-NTJ-07819 (3).pdf, BCC-NTJ-07819.pdf

Name		Response	Attachments		Comments			
Ahmed Makki (SAMA CONSULTATION CO	A ENGINEERING	Approved as Noted			As reviewed approved to use, pls. follow the instructions recorded on data sheet to use .			
Ahmed Hamed (Nesaj Project Manag	gement Co.)	Approved as Noted						
Revision	0		Submittal	Manager	Rafeeq Hussain (Building Construction Company)			
Status	Approved as noted (B)	Date Crea	ted	18 Nov, 2024				
Issue Date			Spec Sect	tion				
Responsible Contractor	Building Construction (Company Received From			Mohammed Maaragi (Building Construction Company)			
			Submit By	/				
Final Due Date	26 Nov, 2024		Lead Time	e				
Location	General		Туре		Material Submittal			
Submittal Package								
Approvers	Ahmed Makki (SAMAA	ENGINEERING CON	SULTATION CO.),	Ahmed Han	ned (Nesaj Project Management Co.)			
Ball in Court								
Distribution								
Description								
Discipline	Architectural		Activity		Suspended Ceiling			
INSPECTION RE	NSPECTION REQUEST FIELDS							

Ready for Inspection on

18/11/24

Submittal #BCC-NTJ-07819.0 - GYPSUM BOARD and ceiling system (EL-KHAYYAT)

Project: 10006 Nesaj Sadayem

Submittal Workflow

Name		Sent Date	Due Date	Returned Date	Response	Attachments
General I Attachme	nformation nts					BCC-NTJ-07819 (2).pdf BCC-NTJ-07819 (3).pdf BCC-NTJ-07819.pdf
Ahmed Makki		19 Nov, 2024	26 Nov, 2024	1 Dec, 2024	Approved as noted	
	Comment	As reviewed app	roved to use, pls. f	ollow the instruction	ons recorded on data she	eet to use .
Ahmed Hamed		1 Dec, 2024	26 Nov, 2024	2 Dec, 2024	Approved as noted	



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ubject: Manufacture and supplie	r (EL-KHAYYAT - Co) FOR Gy	psumboard & Accesso	ries	
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Civil / Structural	Architectural	Mechanical	Electrical/Instrum	int/Telecom X General
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Material Approval	ITP (Inspection and 1	(est Plan)	IFC/Final C	uantity
Method Statement	As Built Drawing		CV/Resum	
Temporary Work Design	Plan		Schedule	
Shop Drawing	Survey		Monthly Q	uality Report
Test Report			Organizati	onal Chart
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			Date:	27-	Jan-25		
Project : Meknan Alsadan		CONTRACT No. :					
Client: Al-Alameya Real Estate Dev	elopment company						
Consultant : Distinguished expert F	or AE Consultancy	PROJECT No .:					
Contractor : International For Mou	s (Excellence partners contracting Est)						
From: IFMI	To: Distinguished expert	Attn: Project Manager					
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مصطفه عبد الرحمن رجب للمقاولات العام INAR ENGINEERING CON/ULT/INT/ NOSTAFA ADOEL RANNAN RAJAD FOR GENERAL CONTRACTING

المشروع انشاء مجمعات دورات المياه ذات الطابقين بمشعر منى .

خطاب رقم : ARCH056/2024 هـ التاريخ : 1446/07/22 هـ الموافق : 22/ 01/ 2025 م

الموضوع : طلب اعتماد عينة مادة بلاطات الاسقف المعلقة

السادة / شركة الخدمات الاستشارية السعودية

عناية المهندس / مدير المشروع

المحترمين

المحترم

بالإشارة إلى الموضوع أعلاه نرفق لسعادتكم طلب اعتماد عينة مادة بلاطات الاسقف المعلقة من مصنع شركة الخياط لذلك نأمل من سعادتكم التكرم بالإطلاع والإعتماد .

وتفضلوا بقبول فائق الاحترام والتقدير ,,,,,,

Tel : +966 12 5400096 Fax : +966 12 5358218

مؤسسة مصطفى بن عبد الرحمن رجب للمقاولات العامة



المذرع: إشام بمعاد دران مجال المؤان بشر على العاران. العاران العاران.			e		7 F	ARSONS	1	كدائة KIDANA	9
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EL KHAYYAT GYPSUM COMPANY



DESCRIPTION

A gypsum based ceiling panel laminated with vinyl that makes it easy to clean and sustainable.

FEATURES & BENEFITS

Laminated Gypsum Ceiling with washable vinyl facing for easy maintenance.

Available in plain facings with smooth appearance.

• Ultra-high humidity resistant; sag resistance ensures durability in standard or extreme environmental conditions.

 Standard produced with aluminium foil backing which acts as a vapor barrier and resists breathing so panel stays cleaner longer.

- Scrub resistant. Dirt marks are easy to remove.
- Durable, scuff, and scratch resistant for longer life.
- Economical and easy to trim and install.
- Demountable and designed to be installed on the QUADRA® Brand ceiling suspensions

APPLICATIONS

Commercial retails

- Restrooms and wet areas
- Department stores
- · Kitchen, dietary and laundry

Effect of Condensation

The thermal insulation and ventilation requirements of national building regulations aim to reduce the risk of condensation and mold growth in new buildings. However, designers should take care to eliminate all possibility of problems caused by condensation, particularly in refurbish ment projectsASTM C1396 Standard Specification for Gypsum Board



Gypsum Tiles

SPECIFICATION DETAILS

Thickness 7 mm 9 mm 12 mm

Edge Details Square Edge (SE)

Module Size 600 x 600 mm 600 x 1200 mm

Board weight: 7 mm : 4.9 Kg/m2 (± 0.3 Kg/m2) 9 mm : 5.2 Kg/m2 (± 0.3 Kg/m2) 12 mm (SE) : 7.6 Kg/m2 (± 0.4 Kg/m2)

Thermal Conductivity : 0.25 w/m *k



PO Box 3300 - Post Code 21471, Jeddah - Kingdom of Saudi Arabia - www.el-khayyat.com

2024 TDS/FRMR12.5/R0



EL KHAYYAT GYPSUM COMPANY



EL-KHAYYAT offers a wide range of high quality aluminum alloy and metal ceiling system that increase the aesthetic and functional value of your interiors within a modest ceiling budget. metal ceiling products are available in standard suspended ceiling systems such as exposed grid / concealed suspension system; custom-made metal ceiling is also available on request to meet the different requirements of

FEATURES & BENEFITS

EL-KHAYYAT offers unique systems providing the specifier unlimited design possibilities for applications ranging from banks to corporate offices, airports till shopping malls.

APPLICATIONS

durability and performance:

- Wide range of standard patterns, other patterns are available upon request
- Durable and washable polyester powder finish
- Easy access for service maintenance
- · Robust and easy to clean
- · High sound absorption and sound attenuation
- Extensive range of perimeter options

• Environmentally friendly and recyclable MATERIALS AND MANUFACTURER Gypsum Tiles

FIRE PERFORMANCE

Fire rated designed class A as per ASTM E84 is available upon request.

ACCOUSTICAL PERFORMANCE DETAILS

	Plain	N/A	N/A	35-40
-	Standard Acoustical Fleece	0.45-0.60		<20
Panels	Premium Acoustical Fleece	0.65	Class C	<20
	Premium Acoustical Fleece+Rockwool	0.90	Class A	20-25
	Mineral Fiber Board	0.40-0.50	-	30-35
	Plain	N/A	N/A	35-40
	Standard Acoustical Fleece	0.45-0.60		<20
Clip-In	Premium Acoustical Fleece	0.70	Class C	<20
	Premium Acoustical Fleece+Rockwool	0.90	Class A	20-25
	Mineral Fiber Board	0.40-0.50		30-35

SUSPENSION COMPONENTS

Suspension hanger rod	Suspends primary channel from soffit	
Suspension channel	Provides primary support and lateral restriant	
Spring tee bar (Triangle type)	Provides support for clip-in tile flanges, Suspend below suspension channel	A
Wire connecting clips	For coupling	2-2
Primary channel brackets	To suspend the primary channels using hangers	Δ́Ε
Butterfly clip	Provide easy plenum height adjustment	Þ
L-Trim	22 x 19.5mm - 0.48 thick	1
J-Trim	30 x 50 x 30mm - 0.48 thick	I

Metal ceiling panels are all antibacterial tiles which are press formed from aluminum alloy series 3000 or mild steel and factory finished with an electrostatically applied polyester powder coat (70-90 microns). The paint's grade varies widely from commercial to super durable to comply with most of the projects requirements. Panel thickness range from 0.6 to 1.4mm, other thickness is available upon request. Suspension components are made from galvanized steel or and pre-painted steel/ aluminum

COLOR

The standard color is RAL 9016 white 20% gloss, RAL9006 and RAL9010. Other colors are available upon request.





مشروع انشاء مجمعات دورات المياه ذات الطابقين بمشعر منى 2440

خطاب رقم : ARCH030/2024 هـ التاريخ : 1446/07/1 هـ الموافق : 1/ 1/ 2025 م -0

الموضوع : طلب اعتماد مصنع شركة الخياط للاسقف المعلقة السادة / شركة الخدمات الاستشارية السعودية عناية المهندس / مدير المشروع

المحترمين

المحترم

بالإشارة إلى الموضوع أعلاه ، نرفق لسعادتكم طلب اعتماد مصنع شركة الخياط للاسقف المعلقة لاعمال بلاطات الاسقف المعلقة و الاسمنت بورد و الالواح الجبسية لذلك نأمل من سعادتكم التكرم بالإطلاع والإعتماد .

وتفضلوا بقبول فائق الاحترام والتقدير ,,,,,

مؤسسة مصطفى بن عبد الرحمن رجب للمقاولات العامة

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SUBMITTED BY :	CONTRACTOR	چېن	مصنع الغياط لا		E	PROJECT M	ANAGER IM TAWFIC	
. Supplier SUBMITTED BY : Name: Signature:	CONTRACTOR Eng.Mohammed A.elkareem	چېن	مصنع القياط ال مصنع القياط ال		E	PROJECT M	ANAGER IM TAWFIC	2
. Supplier SUBMITTED BY : Name: Signature:	CONTRACTOR Eng.Mohammed A elkareem	جيس ب.	مصنع الذياط ال مصنع الذي المراجع محمد المراجع ال محمد المراجع ال محمد المراجع الم		E	PROJECT M	ANAGER IM TAWFIC	2
SUBMITTED BY : Name: Signature: This section will be ENGINEER'S RI AND AND AND AND AND AND AND AND AND AND	CONTRACTOR Eng. Mohammed Aelkareem USed by Approving Authority only EPRESENTATIVE'S COMMENT (41977 C 31 2 9 1 9 1 9 (41977 C 31 9 1 9 1 9 1 9 (4197 C 31 9 1 9 1 9 1 9 1 9 (4197 C 31 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1	ميں جين المرك رالا المرك رالا حق حك عن	مصنع الغياط لا معرفي المجرم المعام العلى رف م تاليا ك الرياع ترك مرج (لمعام) لد يتور		A) Appro B) Appro C) Revis	PROJECT M. ENG.Eng.KARI	ANAGER IM TAWFIC	

تعزيز مجمعات دورات المياه بمشعر منى



تعزيز مجمعات دورات المياه بمشعر منى

Type (A)

8

الإتفاقية الإطارية

. *

ملاحظات	الإجمالي	السعر	الكمية	الوحدة	وصف البند	رقم البند
					توريد وتركيب الأسقف المطقة شاملة نظلم التعليق حسب الموضح بمخططات التصميم الداغلى والمواصفات واعتمادالمهندس المشرف (المساحة مقاسة في المسقط الأفقى)	
			950	م2	توريد وتركيب أسقف من البلاطات 600×600م مقارم للرطوية شاملا الدهانات والنظام المعلق من الصلب المجلفن وجميع الملحقات طبقا للمخططات والمواصفات.	9.4.1

تعزيز مجمعات دورات المياه بمشعر مني



الإتفاقية الإطارية

. *

10

تعزيز مجمعات دورات المياه بمشعر منى

Type (A)

ملاحظات	الإجمالي	السعر	الكمية	الوحدة	وصف البند	رقم البند
			280	24	تكسيات من الواح الاسمنت لإخفاء التركيبات الميكانيكية و المعدات على السطح، بالارتفاع المطلوب حسب الرسومات والمواصفات، ويشمل البند قوانم و عوارض التثبيت حسب الشركة المصنعة، وكذلك تنفيذ عوارض السند ضد الرياح والحسابات الإنشائية اللازمة. و يشمل البند مواد واكسسوارات التثبيت ومعالجة الأسطح والدهان حسب المخططات والمواصفات واعتمادالمهندس المشرف.	9.3.3





Building Construction Company King Faisal Street, Al Rawabi P.O Box 30730 Khobar, Ash Sharqīyah 31952 P: +966138013939 F: +966138967916

Submittal #BCC-NTJ-07819.0 - GYPSUM BOARD and ceiling system (EL-KHAYYAT)

Distribution Summary

Distributed by Ahmed Abdulfattah (Building Construction Company) on 2 Jan, 2025

То	Rafeeq Hussain (Buildi	ng Construction Compa	any), Mo	ohammed Maaragi (Bu	ilding Construction Company)
Message	None				
Attachments	BCC-NTJ-07819 (2).pd	lf, BCC-NTJ-07819 (3).	.pdf, BC(C-NTJ-07819.pdf	
Name		Response	Attach	ments	Comments
Ahmed Makki (SAMA CONSULTATION CO	A ENGINEERING	Approved as Noted			As reviewed approved to use, pls. follow the instructions recorded on data sheet to use .
Ahmed Hamed (Nesaj Project Manag	gement Co.)	Approved as Noted			
Revision	0			Submittal Manager	Rafeeq Hussain (Building Construction Company)
Status	Approved as noted (B)		I	Date Created	18 Nov, 2024
Issue Date			:	Spec Section	
Responsible Contractor	Building Construction C	Company	I	Received From	Mohammed Maaragi (Building Construction Company)
			:	Submit By	
Final Due Date	26 Nov, 2024		I	Lead Time	
Location	General		1	Туре	Material Submittal
Submittal Package					
Approvers	Ahmed Makki (SAMAA	ENGINEERING CONS	SULTATI	ION CO.), Ahmed Ham	ned (Nesaj Project Management Co.)
Ball in Court					
Distribution					
Description					
Discipline	Architectural			Activity	Suspended Ceiling
INSPECTION RE	QUEST FIELDS				
Ready for Inspection on	18/11/24				



Submittal #BCC-NTJ-07819.0 - GYPSUM BOARD and ceiling system (EL-KHAYYAT)

Project: 10006 Nesaj Sadayem

Submittal Workflow

Name		Sent Date	Due Date	Returned Date	Response	Attachments
General Informati Attachments	on					BCC-NTJ-07819 (2).pdf BCC-NTJ-07819 (3).pdf BCC-NTJ-07819.pdf
Ahmed Makki		19 Nov, 2024	26 Nov, 2024	1 Dec, 2024	Approved as noted	
Comm	ent	As reviewed app	roved to use, pls. f	ollow the instruction	ons recorded on data she	eet to use .
Ahmed Hamed		1 Dec, 2024	26 Nov, 2024	2 Dec, 2024	Approved as noted	

SAM-1										
		SUBMITTAL F	FOR APP	ROV	AL OF MATE	RIAL				
Client: NHC	H	Project: AL-SADAN COMMU PROJECT nal	INITY	Cons) The second of the second of the second seco	and the second se	Conti	ractor:	
MAR NO.	1026	-CN-ST-QM-SSC-MAR-030	0	REV						
To: SAADOUN AL-S	SAADOUN	CONSULTANT		00	From: QMAM	ALTASHE	ED CO	ONTR/	ACTING CO	OMPANY
Attention: Eng.	AHMAD				By: Eng.	Noman kl	han			
	Civil	🗆 Arch. 🗌	Electrical		Mechanical	🗌 Oth	er			
1. Material Descre	eption:						Da	te:	1/14	/2025
	10	EL-H		Sypsur	n Board					
Area of Application	:	Site Wide		Desig	n Type :				_	
Plot :		-		B.O	.Q. Ref. No. :					
Drawing Ref. :		_		Mat	erial Color :					
Specification Ref. :			يب الاقتضاء	Mate العينات حس	rial code : وشفادات الاختيار الحالية و	وصف ذي الصلة	لتحدد ال	والمعتمدة	، الفنية ذات الصلة	رفاة، حميه المطبوعات
Attach all relevant technical	l literature mar	ked to identify relevant description, cu	urrent Test Certi	ficates, sa	mples as appropriate		-	,	-	
2. MANUFACTUR	ER/SUPPL	IER :	5 . 1							
Company Name :		EL-KHAYYAT Gypsum Boar	d			-				
Address :		PO Box 3300-PostCode	21471, Jed	dah	Tel No.					
Approved TRM No	.:									
Local Agent :		EL-KHAYYAT Gypsum Boar	d							
3. DELIVERY :		within 2 days								
Country of Origin	Γ Αγρί	Saudi Arabia								
	Ava	⊡ Loca	ally Manufactur	ed	Overse	eas		2		
We certify that the above s the submitted items in con	submitted item formity with th	is have been reviewed in detail and a he above and deliver same timely. als	re correct and in so that the mate	n strict co erial sour	nformity with the co ces indicated above h	ntract drawin; ave been revi	gs and s ewed in	pecificat detail a	ions except as nd that they wi	otherwise stated; II supply
Submitted By:	Eng. Nor	man khan	Signatu	ire:	NOMAN K	(HAN	Da	te:	1/14	/2025
Consulting Enginee	er:							A- Ap	proved	
Some parts were re	quested to	be replaced with high-qual	ity ones, an	d they	have been repla	aced.	3	B- Ap	proved As	Noted
The submitted samp	oles have b	een reviewed and are accep	pted.					C- Re	vise & Res	ubmit
A sample must be p	repared on	n-site before starting the su	pply to mon	itor pr	oduct quality.			D- Re	jected	
	P	Pote (27/2/2005	preserving	g the r	nacerials.					
4.Tech. Support	t Comme	pare :27/1/2025						Same	lo Roquire	d
								Tests	Required	su
								Addit	ional Info	Required
								Manu	ufacturer's	Guarantee
								Requ	ired	
Tech. Engineer :				Tech	.Project Mana	ger :				
Sign .		Date :		Sign .				Date :	:	
Approval shall not roliove Co	ntractor of his	liabilities under the contract or countries	تند العقد.	یر فی مس مرفع	شكل تفويضًا بأي تغر معمومة معمومة	ب العقد أو تن ument	، بموجد	سؤولياتا	المقاول من م	لاتعفى الموافقة
Approval shall not relieve Co	nitractor of his	maphilities under the contract or constit	ute authorizatio	n of any o	mange to contract doo	ument.				

Material Approval Request

Dubai Engineering Consultants Co.

Saudi arabia - head Office Riyadh 11352 - P.O. box 271022 Saudi arabia - Jeddah 21382 - P.O. box 133717 Saudi arabia - Al Ahsa +966112488359 +966126712842 info@dubai.com.sa - Arch.jed@dubai.com.sa



Al Rehab School

DATE OF SUBMISSION

26/1/2025

PROJECT MANAGER

Mohamed Mutasim Elhassan

Sunday, January 1, 1900

TRANSMITTAL NUMBER

TRANSMITTED TO: (NAME/ADDRESS) EL KHAYYAT GYPSUM COMPANY (GYPSUM CEILING SYSTEM)

SUBJECT OF SUBMITTAL	SPECIFICATIONS
(GYPSUM CEILING SYSTEM)	As per the received profile

CHECK ONE OF THE FOLLOWING:

	We have verified that the material or equipment contained in this submittal meets all of the requirements specified or shown (no exceptions).
	We have verified that the material or equipment contained in this submittal meets all of the requirements specified or shown, except for the following deviations listed below.
Consultant	SIGNATURE
Dubai	engineering Cunsultant Co.
APPROVAL COMMENTS	Approved معامل المعامل
AUTHORIZED SIGNATURE	OF APPROVAL DATE
	26-01-2025



.

أحمد الموسم للإستشارات المندسية Ahmed Al-Mouse Eng'g Consultants الإستشاري	الشركة الوطنية للإسكان National Housing Company —— NHC —— المالك	.dh.	ولاده Abdul R Closed Join پ	ART ART بعد الراشد وأر ahman Saad stock Co المطور العقاري	AR شركة عبد الرحمن س AIRashid & Sons Co. شركة مسادم له مصل
	، - ضاحية الفرسان 2 -الرياض	ع جو هرة الفرسان	مشروع	0	جوهرة الفرسان
	نماد مواد (MAR)	نموذج اعت	1		
DATE: 2024-12-04 1446-06-03			JF-S	113	رقم طلب الاعتماد:
			ARCHITECTURAL		نوع/قسم التقديم:
Certificates Shop Drawings Sam	ation & Maintenance Manual	Manufacturer	's Data & Specs.		المعلومات المقدمة والمرفقة:
					موضوع طلب التقديم:
	س بورد والاکسسوارات	اعتماد عينة الجب			
	مصنع الخياط	من ا			
	<u>المورد -المقاول/ الوكيل:</u> الأسم	ā	ط للمنتحات الاسمنتير	مصنع الخيا	الاسم
الموقع الإلكتروذ	 		ا الموقع الالكتروني		العنوان:
فاكس	الهاتف		ا فاکس		الهاتف:
	يظات المطور:	alla			
				اكسسوارتها	مرفق : عينه الواح الجبس و
51	2024-12-04 التوقيع:	التاريخ:		حمد الحاج	<u>الاسم:</u> م.م. م
				<u>تب الفني</u> الالسالة	<u><(1)</u>
	2024-12-04 التوقيع:	التاريخ:		الل شري الشروع	<u>الاسم:</u> م. ط مدی
10° cr q	ات الاستشارى	ملاحظ		Quint	
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aughteri Em_	ر ۱۱ (۲. C ، C) التوفيع:	التاريخ:		it is	Mran; and the start the
	فقة الثيائية	المو ا			
		~	دير الإستشاري	<u>41</u>	
Status	ALINIA A	412	بندس / هاني خليل	:الم	الاسم
1- Approved	C.R: 20 0088	082 -	1	-	A [1]
2- Approved as noted	م للد. Ho.: 110000 الم حجور الفرسان				
1- Revise and submit	lewharet arstan Pr	oject the traje	1-12-2020	<u>ч_</u> .	للونيح
	Olice P. Las	on			



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					المقاول	الاستشاري			
					San	نست التعرير فبیل محمل علی عنامی 🐠			
	تماد	🗹 من أجل الاع	يقات	🗆 من أجل الملاحظات والتعل	🗆 من أجل معلومات	سبب تقديم طلب الاعتماد:			
🗆 مساحة	🗆 سباكة	🗆 میکانیکا	🗆 كهرباء	🗹 معماري	🗌 إنشائي	🗆 عام 📃 📃 مدني			
						المورد:			
				البيان					
			ة و الصناعة	🗹 نسخة عن عضوبة غرفة التجار	شركة الخياط للجبس المحدودة	الاسم			
			اري	🗹 نسخة عن شهادة السجل التجا	2564984055	الهاتف			
		لمفعول	يص المخول بالتوفيع سارية ا	🗆 نسخة عن اعتماد التوقيع للشخ	جدة - حي الاندلس	العنوان			
						الشخص المسؤول و رقم جواله			
			مفغول	ک شهاده نشدید الرکاه شاریه ال	التأهيل الموجود لدى المورد				
				🗹 شهادة سعودة سارية المفعول		اجمالي سنوات الخبرة			
				🗹 أخرى		سنين الخبرة في السعودية			
						ملاحظات عن المورد:			
	(المقاول)	مدير المشروع				استثناء			
ريخ: 2025-01-19	محمد هاشم	اسم المهندس: التوفيع:			الخاصة بتوريد اعمال الجبس لزوم التشطيبات للاعتماد	مرفق لسبادتكم بروفايل شركة الخياط للجبس المحدودة			
	Retrieves!	وع الإستشارى:	مدير المشر	-		ممثل الاستشاري:			
Mayon Project	التوفيع: التاريخ: 20-01-5	. منیر	الاسم :محمد	G.	التوفيع: التاريخ: 2025-01-2025	الاسم :أشرف شحانه			
		وع (المطور):	مدير المشر			توصيات المطور :			
	التوفيع:	الاسم: التوفير		🗆 D - غير معتمد (مرفوض)	🗆 C - غير معتمد ويجب إعادة التقديم				
	التاريخ:								
		PM-MV-04			بالرجوع لإدارة المشروع	محتويات هذا النموذج معتمدة وغير فابلة فابلة للتعديل إلا			











			Mater	ial Submittal for	n				
Submi	ittal Ref:	SPC-CBEC-N	/К11-Т	SL-ARC-87	Rev: 00	Date:	08/01/202	5	
Progra	am Title:	Development	al Hou	sing Project of MC	OH WAVE	:#			
Projec	t Title:	Implementation of the line of	he housing	development project units	for the Al-Sada	n project, (Co	ontract No2200027	'2)	
The E	mployer:	NHC - National Hou	ising Comp	bany					
Third	party:	Dar Al Riyadh							
Consu	ultant:	CBLOC Consulting	Co.						
Contra	actor:	Saud Alsaadi & Partners Co. General Contracting & Trading (SPC)							
Guidar	nce Notes:								
The sub have be should i Review	The submission should only include materials which are compliant with the SOPR and CODE requirements and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations / changes as instructed.								
Archite	ctural	Structural / Civ	vil 🗖	Mech / Plumb	Elec.	Othe	ers(Specify)		
			Ν	Material Details					
Propose	ed by:								
The Con	tractor		The Con	sultant (Designer & Th	e Engineer :	Specialist /	Sub-Contracto	r	
Sign/			Sign/		Sign/				
	Å			مراجع المراجع ا					
		Material Inform	mation	& Checklist					
Location	/element Ref:	The Title:GYPS	UM BOAR	D		Check	list of Attachments	s:	
Specified	d Material:	ALKHAYAT GY	PSUM B	OARD		Drawir Specif	ng / ication		
Propose	d Material:	GYPSUM BOA	ARD			Produc	ct Datasheet	⊠	
SOPR/C	ODE Ref(s):					Compl Certific	liance cates /		
Manufac code ref:	turer & Product	Supplier : ALKH	IAYAT - I	Manufacturer/Brand : ALKH	AYAT	Compl Staten	liance nent		
Remarks	s / Notes:	SPC-OTCE-MM	(11-SAT-A	ARC-72		Sampl	e (available)		











	Review Date:	13/Jan/2025	Rejected	Approved		#
THE ENGINEER*	Print Name: -Pre-qualification app -Shadow gap shall be	MASOUD SAID roval shall be attache provided. Shadow g	d. ap angle shall be	as per approved	Signed: IFC drawing	Magoud Flrouby 13/Jan/2025 s.

	Recommendations to NHC Date:	14 Jan 2025 Lou Anne Doctor	Objection	No Objection		#
Dar Al Riyadh	Print Name: -Fire and safety requiren -The design of the ceiling to verify and incorporate -Final approval is subjec	hents shall be considere g system is under the re the specialist design on t to mock-up approval.	d and complied. sponsibility of the C site.	ontractor/Enginee	Signed:	John

	Review Date:	15 Jan 2025	Objection	No Objection		#
NHC	print namne: - Moisture-resistant g - Comply with Dar cou - Ensure that the according maintenance for MEF	# Banan Bassam ypsum board shall be mments and The eng ess panel size is enou items.	# used for all wet a ineer comments a ugh to provide the	# areas. above. required	Signed:	Regionan
					÷	

میں الماندسیة میں معامل الماندسیة میں معامل میں معامل میں معامل معامل معامل معامل معامل معامل معامل معامل معامل	السرطة الودندية للرسطاني suitents المواقع و معادلة MHC NHC 1	ARTAR در که عبد الرحمن سعد الراشد وأولاده Abdul Rahman Saad AlRashid & Son Closed Joint Stock Co	ېش Is Co.
	مشروع جو هر ة البحيرات - جدة	المطور العماري	
	لمودع اعتداد مورد		
DATE: 30-9-2024		JB-MAR-ARCH- 07 الاعتماد:	م طلب
Other H.S.	JB-MAR-ARCH-07	م التقديم:	
Certificates Shop Drawings	Samples As Built Drawings Manul Operation & Maintenance Manual Others (specify)	acturer's Data & Specs. Acth.	لعلوما، والا
	S. 197	<u>طلب التقديم:</u>	وضوع ه
	كسسوارات الاسقف المستعارة	اعتماد مواد و	
ين مع الكلي من . الاست الحالي الم	<u>المورد -المقاول/ الوكيل:</u> الاسم	شركة الغياط	لصنع: رسم
الموع بر سروي	العنوان الهاتف	<u>الموقع الالكتروني</u> فاكس	<u>عنوان:</u> ماتف:
100 mar and 100 mar and 100 mar and 100 marca	<u>المور</u> 30.9.2024 التوقيع		
	الناريج: الناويج:	سم م. عثمان العثمان مدير التشطيبات	الإر
BUL PAMALAN SAAD ALRASHUS		سم معبد الرحمن الماخوذ. مدير المشروع	<u>14</u>
15:0	مادهات الإسلساري	1	
azeres	elele 13 antenno	Laigail 2d c 12m	-
Sin	1 Dogod of 1	by be black	
برعنه	ى المقاول من مسؤولياته عن جميع الاعمال التي سيقوم بها او من ينو	ملاحظة: الاعتماد لا يعف	
A	التاريخ: 202-9-02 التوقيع:	ودرم) إزهراي	الأسم:
	المو افقة النيائية		
atus		المدير الإستشاري	
I- Approved		شركة احمد الموسم، للاستشارات المدينية محمود سلام	الاسم
- Approved as noted		Ahmed Al-Mouss ing grunsuitonis in جوهرة البحيرات -جدة	التاري
- Rejected		R: 2050088082 Lic. No. : 5110000572	التوق



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and the second se	6-	and the second second	مشروع الإسكان التتم	ري الدرة ١ - جازان	-	15-	
DNSULTANT			MANA real esta	OUL BENAA	OS		A DEAL OF A DEAL
الاستشارى			المطور	المقادل العاد		1 al al	ار ال زديني
مكتب د.م./ أحمد فريد ،	مصطفى	شركة	مناف العقارية	شركة أصول البناء ا	المحدة دة	المعد المعنية	الأد إذا المقاه لات
	3	and the second sec	طلب اعت	اد مورد		19.	-13 - 7.
توع التقديم	معمارى		رقم التقديم	28	تاريخ الن	<u>تد</u> يم	2024/12/25
موضوع التقديم			الإسلة	(عماد مورد / عينات - الجيسية واكسسوارات التطيق وا	التثييت		
سلمبل	اسم المصنع	نع	the second second second	تصنيف المصنع في مجاله		العمل في ال	المشارية المشلة
	شركة الخياط	bi				نعر 🛛	n V
1 ماتف: ٢٦٨٦٥	٥٥٣٦، إفاكس:	1.4	3 (e		-	الد فقات	عنان
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					اله	ىرفقات	
			توقيع وختم اله	قاول الرنيسي			
	بیڈا نقر بان	بأن المصنع المقدر ما	تخصص في الأعمال المطلوب إم	نادها إليه وسوف بقوم بتنفيذها طبقا	ا للمو اصفات و المخططان	ث	
	والعينات المعتم	معتمدة والأصول الفني	ية المطلوبة لمثل هذه الأعمال وت	ت إشر افغا الكامين معاركامل المه	سولية المترتبة على الأ	عدل	11
				WINY!		12	11 09-
المهتدس	ن المختص		مدير المشروع	Ale Real Contraction		مدير المشروع المقاق	Y 19-03
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CLIENT	PMC	CONSULTANT	CONTRACTOR
NHC	⇒ار (الرياض ن)	المنار للإستشارات المندسية	REZAIK AL GEDRAWY
	DAR AL RIYADH	Al Mnabr Consulting Engineering	Contracting Company

		Mat	terial S	Submi	ttal Fo	orm				
Submittal Ref:	RAC-AEC-M	K27-TSL-AR	C-0118	Re	v No:	00 1	Date:	07/01/	2025	
Program Title:	Affordable F	lousing Proc	aram							
Project Title:	AL-SADAN,	Jeddah, P1	&P3							
The Employer:	National Ho	usina Comp	anv							
PM Consultant:	Dar Al Rivad	dh								
Consultant:	Al Mnabr Co	onsulting En	aineerii	na						
Contractor:	Rezaik Abdallah Al-Gedrawi Co.									
Guidance notes:										
The submission should or Contractor and Designer (ıly include materials and Engineer if appli	which are complian icable) and should i	nt with the s include any	SOPR and authorise	CODE req ed variatio	uirements and hav ns/changes as inst	e been reviewed ructed.	and coordinat	ed between the	
Review Discipline										
Architectural 🛛	Structural/Civil Mech/Plumb Elec. Others (specify				thers (specify					
	<u> </u>		Mate	erial Det	tails		1			
Notes: PMC review will re- Objected shall be returned Design/Production (e.g. P	commend either Obje d to the Contractor wi 're-cast panel manufa	ection or No Objecti ith an Objection rep acturer)	on to each ort. This sh	item. Non leet must t	n-Objected be signed	l shall be issued to by any specialist su	the NHC with the b-contractor app	recommenda icable to the N	tion to approve. laterial element	
Proposed by:										
The Contractor			The	Consultan	nt (Designe	er & The Engineer)	Specialist/S	Specialist / Sub-Contractor		
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		Supplier A	pprova	al Reque	st			
Submittal Ref:	RAC-AEC-MK27-SA	T-ARC-0042	F	Rev No:	00	D Date:		18/05/2024
Program Title:	Developmental Housir	ng Program of S	audi Ara	abia				
Project Title:	AL-SADAN, Jeddah, P1	&P3, (Contract	# 2300	1513)				
The Employer:	National Housing Com	pany (NHC)						
Third party:	Dar AL Riyadh							
Consultant:	Al Mnabr Consulting E	ngineering						
Contractor:	REZAIK ABDULAH SAEID ALGEDRAWY ALSEBAITY AND PARTNERS COMPANY LTD.							
Guidance notes:								
The submission should only Contractor and Designer (and	nclude documents which are de d Engineer if applicable) and sh	eemed compliant wit	th the SOF horised va	R, Applicable riations/chan	Codes a ges as in	nd have been rev structed.	ewed and co	ordinated between the
Review Discipline:								
Architectural	Structural/Civil	MECH/Plumb		Elec.		Others (spec	ify) 🗆	
Document Details:						1	DAI	R AL RIYADH Review
Notes: DAR AL RIYADH revie NHC with the recommendati	w will recommend either Object on to approve. Objected shall be	tion or No Objection e returned to the Cor	to each ite ntractor w	em. Non-Objectio	cted shal	l be issued to the		
The Title: Pre-Qualific	ation of EL-KHAYYAT	DRY MIX FAC	TORY fo	or Chemic	als.			
Proposed by: REZAIK	AL GEDRAWY CO.	The Con	sultant (Designer &	& The E	ingineer)		
Sign/Stamp	Revealed and the second	Sign/Sta	amp	ت المهنية Al Mnabr G	ستشـــارا onsultin ف U-2	المتابــرللإس g professional قسم الإشرا الإعتماد رقم الخلم: 55 6 11 4233118		
S. No: Do	cument Title/Description	n: Referen	ce No:			Rev No	o:	Remarks
01 F E M C	re-Qualification of L-KHAYYAT DRY IIX FACTORY for hemicals.							Attached file
Reviewed for complia	nce hv							
Notes: The Engineer* shall re upon 'No Objection' to the Ci	eview and approve when the Suj ient. Any 'Objections' shall be re	pervision Consultant turned to the Contra	differs fro actor with	m the Design a review repo	er only. D rt for acti	AR AL RIYADH sh on and may be co	nall only issue	e recommendationsbased NHC when necessary.
Official documents shall	be valid during delivery			Appr	oved, I	Final Approva	Subject t	o NHC Approval
THE ENGINEER*	Review Date:	19/05/20	24	Rejecte	d	Approved	Signed:	Ahmed Hassaan
	Print Name:	Ahmed H	assan			\checkmark		
PMC	Recommendations NHC Date:	20-05-	2024	Objection	n	No Objection	Signed:	-
	Print Name:	Mahimen B	abiker			V		

NHC	Review Date:	20-5-2024	Objection	No Objection	Signed:	25
	Print Name:	A.Almuraikhi				Cit

All governmental registrations and certifications to be kept valid throughout NHC Project Execution. the Materials from this supplier shall be submitted individually for review and approval with quality Test Reports, Technical data, SASO Certification, warranty Certification, Testing Procedures to be provided and a Test to be conducted for Quality compliance. Final approval is subject to Sample, Material and Mockup approval. All installation MS & Checklist to be submitted separately for review and approval, Provide two more suppliers for review and approval.









SUBMITTAL FORM(M.S)

SUBJECT: GY	PSUM BOARD		د	جبس بور	
Specs. Code & Ref.	B.O.Q. Code Ref.	Drawin	g No.	Submittal No.	AAc-ZFP-MS-ARC-20 REV(1)
		Transm	nittal no.		
		20	REV(1)	Date Received:	21/08/2024
				Date Returned:	
Contractor Name: Almimar Ala	araby Contractor				
Address: Al-Ahsa- Da	ammam				
Manufacturer Name: AJBAS Address: jaddah	+ UNITED MINING IND	USTRIES	Supplier/Agent Name: AJBA Address Jadda	S + UNITED MININ	G INDUSTRIES
Contractor's Comments	5:		See /	Attachment	
Note: This review of his response contract compensation	does not relieve the c sibilities under the te nor authorize n.	ontractor (C rms of the Si additional Da	ontractor) gnature :	لمع العامة (tor elia
Consultant's Comments	s: 	ادرانها ی مراجع	غرمه. الميانة للاعد	د المعاد ال ت تفت ت ر حف ت ال	للم مع مودة وي الله
Status:		Discipline	Sign &	Date	Resident Engineer
Approved Approved as noted	1 [] d 2 []	Arch Civil	Q 2 1 2	6.8.20224	Sign : Eng. Shadi
Revise and submit Rejected	3 🗌	Mech Elect			Date:
		HVAC			
				Constantion	attraction of the second

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	ZUHAIR FAYEZ P	ARTNERSHIP	الشركة الوليك tenal Housing Company NHC	مار العربي AlMimar Al/	araby
		SUB	MITTAL FORM(M.I	.R)	No.
	SUBJECT: GYP	SUM BOARD		جیس یور د	
	Specs. Code & Ref.	B.O.Q. Code Ref.	Drawing No.	Submittal No.	AAc-ZFP-MIR-ARC-20
			Transmittal no.	Date Received:	08/08/2024
00				Date Returned:	
	Contractor Name: <u>Almimar Alar</u> Address: Al-Ahsa- Dar	raby Contractor nmam			
	Manufacturer Name: AJBAS + Address: jaddah	UNITED MINING INDUSTRI	Supplier/Ager IES Name: Au Address Ja	nt JBAS + UNITED MINING addah	INDUSTRIES
	Information submitted an Certificates Technical Brochure Shop Drawings Samples	nd attached:	 Operation & Mai Spare Parts List Warranty Others (specify) 	intenance Manual t) :	
	Contractor's Comments:		S	See Attachment	
••	Note: This review do of his responsi contract n compensation.	bes not relieve the contract bilities under the terms of or authorize addit	ctor (Contractor) f the Signature : tional Date :	مر العامة المقاولات العامة	erelia -
	Consultant's Comments:	بالعامين ماهتر معلم معلم مع A4	HANGADA	ماريم معناي ماريم محفيات مرو به و) تنم الحوا هال
وارالتطبق	Status: Approved C C Approved as noted		Arch Civil	gn & Date	Resident Engineer
امير ولع الجسو	Revise and submit Rejected	3 🖸 🗆	Mech Elect 18 AU8 HVAC	2024	Date:
The	el ble	و المارك فر	باللق	ACTES	المرجع المرابع
4 1					



Compliance sheet attached :

We certify that the above submitted materials have been reviewed in detail by us and are correct and in strict conformity with the Contract Documents and they do not entail any variation under the contract. We hereby request approval of these materials.

Anticipated date for use of materials :

Technical data sheet attached : YES

THABAT

Contractor's Representative: Engr. ELSHAZLEY ABDULRASOUL Date: 01-08-2024

Consultant's Representative Response: get is en parte pild of and a fait of APPROVED والأكسيواراح للجمس لورو علم ان متم تعد مم APPROVED AS تقويلية للأعال جل إشراب وتحفظ NOTED nel as a asiel clined **REVISE & RESUBMIT** ويعد مر الضرالات الازمة معدل NOT APPROVED 10 41812024 Date: **Consultant's Representative:**



شۇون البلدية قوالإسكان	والقرور	HE الوطنية للإ	مكان التنموي Developmental Her	االدِس روماندي		رىياض ن DAR AL F	1[] RIYADI		SAUDI	شـركة (أو.تي.سي-إي السعودية وشريكة للإستشارات الهندسيا		
				Doc	ume	ent Submi	ttal F	orm				
Subm	ittal Ref:	SAT	C-OTCI	E-RY	20-S	SAT-ARC-4	17	Rev:	00	Date:	11-05	-2024
Progra	am Title:	Implem	entation of	the hou	sing de	evelopment proj	ect units	s for Al Fursa	an Proje	ct, (contrac	t number 2	23000770)
Projec	t Title:	Riya	dh Al Fi	ursan	ı Pro	ject P3- 5	50 Un	nits				
The E	mployer:	NHC	- Natio	nal H	lousi	ing Compa	any					
Third	ird party: Dar Al Riyadh											
Consu	nsultant: O T C E Saudi Engineering Consulting Co.											
Contra	actor:	Al Sa	abq Al A	Arabi	Corr	pany For	Tradi	ng And	Cont	racting		
Guidar The sul Codes applica Review	Guidance Notes: The submission should only include documents which are deemed compliant with the SOPR, Applicable Codes and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorized variations / changes as instructed. Review Discipline:											
Archite	ctural 🛛	Struct	ural / Civi	il 🗆	Ме	ch / Plumb		Elec.		Other	s (Spec	ify) 🗖
			Doc	ument	t Deta	ails				Dar /	Al Riyad	h Review
Notes: item. No Objecte	Dar Al Riyad on-Objected d shall be ret	h reviev shall be turned t	/ will reco issued to o the Con	mmen the N tractor	d eith HC w with	er Objection <i>i</i> ith the recon an Objection	or No C nmenda report.	Dbjection t ation to ap	to each oprove	n		
Propose	ed by:									_		
The Con	tractor			T	he Co	nsultant (De	signer a	& The Eng	ineer)			
Sign/ Stamp Sign/ شركة البدائي شركة البدائي شركة البدائي مشركة البدائي شركة البدائي البرانجان البدائي البرانجان البدائي البرانجان البدائي البرانجان البرانجان البرانجان البرانجان												
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Review	ed for Con	nplianc	e By:									





	Recommendations to NHC Date:	19-05-2024	Objection	No Objection		
	Print Name:					
		Muhimen Babiker		V		- the re
Dar Al Riyadh					Signed:	

All governmental registrations and certifications to be kept valid throughout NHC Project Execution. the Materials from this supplier shall be submitted individually for review and approval with quality Test Reports, Technical data, SASO Certification, warranty Certification, Testing Procedures to be provided and a Test to be conducted for Quality compliance. Final approval is subject to Sample, Material and Mockup approval. All installation MS & Checklist to be submitted separately for review and approval.

	Review Date:	19-5-2024	Objection	No Objection		
NHC	Print Name:	A.Almuraikhi		~	Signed:	yapa of



	MG		BENAN PROJECT Package No.BP-01 THA	BAT 🔷	کېت	\$ 1
			SUBMITTAL FORM			in the second
Submittal Reference:		TSC-BP0	01-SUB-TCC-ZFP-MAT-AR-00199		Date:	22-Jul-24
evision:			00	1		
ocument Type			Material Submittal	SUBMITTED	FOR	CODE
			-	FOR INFORM	NATION	FA
TMG Sales Centre	Benan City Pro	ject	PACKAGE NO: BP-01			
TO: Zubair Favez P	Partnerhin (7ED	1	BUILDING NO: General	ACTION		
Cc. Atrium Project	Management	(APM)- TMG		APPROVED A	S NOTED	<u>\$1</u> .
WE ARE SENDING	HERE WITH TH	E DRAWING / DOCUMENTS /		REVISE AND	RESUBMIT	125
				NO ACTION	REQUIRED	D
AMPLES LISTED BEL	OW. (DELETE O	R ADD AS NECESSARY)		REJECTED		R
ITEM QTY.	or BOQ Ref.	DOCUMENT / DRAWING NO.	DESCRIPTION	TYPE*	CO	DE
1 1			Material Submittal for Gypsum Board - El Khayyat Gypsum Co.	MAT		C
			Technical & Sample attached			
				TIT	2 31	
		1	GALES CENTER BRO	23	5	
		1/ 30	and the last	17 S	For	
Contractor's Proje	PMCM review	Mahmoud Ibrahim	War CONSTRUCTION CONST	22 J	UL 2014 ECEIVED	
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ection or comments ma i design concept of the p	ide relative to sub project.	mittals during this review DO NOT rel	ieve the contractor from compliance with the requirements of drawings and specific	ations. This check	is only for review of ge	neral conforman
					24 -7	1.200
R CLIENT (Optional)		DATE:	FOR CONSULTANT: Resident Engineer		ATE:	
COPIES			7			
ode to be entered by consi	ultant		FOR PROJECT MANAGER: Project Manager	D	ATE:	
de to be entered by Proje	ct Manager		SM - Sample MD - Manufarturar's Data CT - Certificator	OF Other		



وزارة الشؤون البلدية والقروية والإسكان		طر الرياض DAR AL RIYADH	Result Office Parameters Prove General Parameters Prove General Parameters	Ê	ن شرکة شخص واحد China Overseas (شركة ما وراء البحار الصينية للمقاولان Construction Central (KSA)LLC		
		Material Su	ıbmittal form	1				
Submittal Ref:	COC-AEC-MK15-T	SL-ARC-0212	Rev No:	00	Date:	20/01/2024		
Program Title:	National Housing Pro	ogram (NHC)						
Project Title:	Taif Al Hawiyah Proje	ect – Contract Number - 22	2000390					
The Employer:	NHC							
Third party:	Dar Al Riyadh							
Consultant:	Al Mnabr Consulting	Al Mnabr Consulting Professional Co.						
Contractor:	China Overseas Cons	struction Central (KSA) LLC	0					

Guidance notes:									
The submission sh coordinated betwee instructed.	ould only include mat en the Contractor and	erials wh Designe	nich are com er (and Engin	pliant with eer if appli	the SOPR an icable) and s	d CODE r hould incl	equirements and ude any authoris	I have been reviewed sed variations/change	and s as
Review Discipline									
Architectural 🛛	Structural/Civil	Mech/I	Plumb 🗆	Elec.		Others	(specify		
		•	M	aterial De	etails	-			
Notes: DAR AI Riyad recommendation to sub-contractor appli	th review will recomme approve. Objected sha icable to the Material e	end eithe all be retu element D	r Objection o urned to the O Design/Produc	r No Objecti Contractor w ction (e.g. Pi	ion to each ite rith an Objecti re-cast panel	em. Non-O on report. manufacti	bjected shall be This sheet must urer)	issued to the NHC with be signed by any spec	h the ialist
Proposed by:									
The Contractor			The Consult	tant (Design	er & The Engin	ieer)	Specialist / Sul	o-Contractor	
Sign/Stamp	一韵雨生 Eng. Hu Yushen	g - PM	Sign/Stam		ینابر للإستشارات ال br Consulting Protes الإشراف الدلم، G4 و1 11 66 968 11 47	شركة الم sional co. قسم الإع رقم رقم	Sign/Stamp		
	Material In	formati	ion & Cheo	klist				Dar Al Riyadh REVIEW	
Location / element Ref:	F	For Pro	oject Taif	Al Hawe	eya		Check	list of Attachments:	
Specified Material:	Gypsum Mate	erial, Gy	psum Boa	rd & Syste	ems Access	ories	Drawing/Speci	fication	
Proposed Material:	1)Fire resistan	ice gyps	sum Borad	2) Main (Channel		Product Data s	heet	
	3) Furring Cha	nnel 4)	-Threaded	Rod Set !	5) Wall Ang	le			
SOPR/CODE Ref(s):							Compliance Ce	rtificates/Documents	
Manufacturer & Product code ref:	EL P	KHAYY	AT GYPS	UM CON	IPANY		Compliance Sta	atement	
Remarks/Notes:	(COC-AE	C-MK15-SA	T-ARC-03	303		Sample (availa See Attache	^{ble)} ed Photos	

Approved, Final approval subject to NHC approval

THE	Review Date:	23/01/2024	Rejected	Approved	Signade	Ahmed bassaan
ENGINEER*	Print Name:	Ahmed Hassan			Signed:	Allineu hassaali

DAR AI Riyadh	Recommendations to NHC Date:	25-01-2024	Objection	No Objection	Signed:	(a) addin
	Print Name:	Islamuddin		>		Onam

	NHC	Review Date:	30 Jan 2024	Objection	No Objection	Circuit	×2	
DAR AL RIVADH	Print Name:	Banan Bassam			Signea:	Ar anan	an	
No objection is subject to the following comments: -Feature bead shall be provided. Provide teature bead for NHC/DAR approval.							Cama	i Chi
	-Waranty/Fire rated material certificate shall be provided.							

No objection is subject to the following comments: - Feature bead shall be provided. Provide feature bead for NHC/DAR approval. - Warranty/Fire rated material certificate shall be provided. - Photo of NHC-signed approved sample shall be attached.







الملاحظات:

The submission should only include materials which are compliant with the SOPR and CODE requirements and have been reviewed and coordinated between the Contractor and Designer (and Engineer if applicable) and should include any authorised variations/changes as .instructed

التخصص

Architectural

: Material Details

Approved as noted : الملاحظات

المدخل : محمد على زكريا (787)

		Specialist	/Sub-Contrac	ctor		الإستشاري		المقاول		
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		معتمد	13:23:0	00 2024/11/27	×		مدير مشروع		عمرو عبدالله (703)	





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		جعة :	بنود المراء		
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S	В		المفعول	شهادة الساسو أو السابر سارية	1
\$	В			شهادة ضمان المنتج	2
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8	В		بنه	الاعتماد النهائي بعد اعتماد الع	7

		المرفقات :		
المدخل	حجم الملف	نوع المرفق	اسم المرفق	#
محمد على زكريا	MB 22,42	drawing_specification	Drawing Specifications	1
محمد على زكريا	MB 5,79	product_datasheet	Product Datasheet	2
محمد على زكريا	MB 1,46	complience_certificatte	Compliance Certificate	3
محمد على زكريا	MB 1,33	complience_statement	Compliance Statments	4
محمد على زكريا	MB 10,78	sample_document	Sample Document	5



		نة صبيا - جازان	مشروع الإسدان التنموي بعديا		• //~		
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بل العام	المقاو		المطور	الاستشاري			
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	والتثبيت	تماد مورد / جبس فواكسسوارات التعليق	اع الألواح الجيسية		وع التقديم	موض	
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مع ان مع ان مع المواج - من ف الأورام - من قص ورالديم.	عن اطسمم مع راستمم (- ورامة مع فه و لا	ور حواد الان ۱۰ المعنان ح ریتی وجفة دو	یاط الم میں لیور مستردع و مدارد مدی المستم وع و ده ۲	من مار حاسع ۲۵. ما کالمعتمد کا ما با مورد خوان	ع عدر ا نا محمو الم الم لم الب ذ	لام) في في في أ	
مع ال دم مالوري ري ن الأورام ريا مهرور الدهد	عن اطستمران مع استمرار - ورمة مع فه ود	ور حواد الان ۱۰ المعنك د روتيل وجفة دو	ما ه ه م د م د من کسور مستر رع و م ر ارد مدی المستم وع و ده مدیر المشروع	من کالمعتمد که م کالمعتمد که م کار بورد خوان کار بر کو د کرا	مع عدم ٢٠ ع المعدة الأل الم لج لب	لاحا م بو ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب ب	
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على ال 2 م المورد - م ن الأ ورام م ن فه ور الد مر الن في الن في الن الم الن الم الم الم الم الم الم الم الم	عن اطستمران مع راستمرار ورابي مع فرون البري البري البري	ور حواد الارب ، المحميك م ريتي وجفة دو مرتي وجفة دو مرتي وجفة دو مرتي وجفة دو مرتي مناري المنطقة الع المعنو المنطقة الع	ما ط المرجر من المور المستروع و مدارد مديح المستم وع و ده مدير المشروع التوقيع التاريخ الم ملحظات وتوصيك المتر ملحا شعن والم	مین مارد حکسع ادر مین با بورد طوان د الام رو 2 کرا م اسل میں م م اسل میں م م	مع هدم ٢. كم هدي (مي ا هر في الار ا هر في في في التاريخ التاريخ المشروع المش	1000	
على ال 2 مع الموري - من ف الأور الم مريا في حور الديمر الذي الذي الذي التنم الم التنم الم التنم التنم الم التنم التنم التنم الم الم الم الم الم الم الم ال	عن (طستمر) م مع زستمرا - در مج مع مج و در مرابع مع مح مج و در مرابع مع مح مج و در مرابع مع مج و در مرابع مع مح مج و در مرابع مع مح مح مح مح مح مح مح مح محاله مح	ور حواد الارب برتيل ومقة در مرتيل ومقة در 21012 مرتيل عرب عاد برعر معاري المنطقة الم مدرس معاري المنطقة الم	ما ط المرجر من المور للمستروع و مدارد مدرة المستم وع و ده ر التوقيع التاريخ الع ملحظات وتوصيا الختم التوقيع	متمار حاسع ۲۵، ها ک المعتمد که مرب بلورد طوان مرب رود کرا مرب	مع هدم ٢. أي الامو (مهم المر م لي الارك ل المر م لي الم التاريخ التاريخ التاريخ المشروع المش المشروع المش	لاحما ج م م في م في م في م في م في م في م في م	
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PROJECTS:

المجتمعة المحتمة	OSOUL		AFM CO	NSULTANTS
المجتر المعالي المحالي	المقادل العاد	Al-Safwah Buildings Co Li	D. ARCHITRCTORAL	PLANNING & ENGINEERENG
على على <td>شركة أصول البناء</td> <td>شركة مباتى الصفور</td> <td>ري قريد مصطفى</td> <td>مکتب درم) أحمد ا</td>	شركة أصول البناء	شركة مباتى الصفور	ري قريد مصطفى	مکتب درم) أحمد ا
		طلب اعتماد مواد / مورد		
موضوع التقديم اعتبار اعتبار التقريق التهيان المستعار المستعار المستعار التقريق والتقريق التقريق معنا المؤلم التهيان عامة التهي التهيان عامة التهي التهي التهيان عامة التهي التي التهي التهي التهي التهي التهي التهي التهي	تاريخ التقديم 9/10/2023	قم التقديم OSOUL/	معماري ر	توع التقديم
موسوع القديم الجيس والكسموارات التطبق والتلبيت سلس اسم المصنع اسم الحرية اسم الحرية اسم الحرية اسم الحرية اسم الحرية المواقلة المواقة		اعتماد - عينات		
سلسل اسمال السابقة اسمال السلمان اسمال السلمان معنا الخليط للجبين المهنا الخليط للجبين المهنا الخليط للجبين عامی: المهنا الحقاي المهنا الحقاي المهنا الحقاي المهنا الحقاي عامي: المهنا الحقاي المهنا الحقاي المهنا الحقاي المهنا الحقاي عامي: المهنا الحقاي المهنا الحقاي المهنا الحقاي المهنا الحقاي عامي: الحقاي: الحقاي: الحقاي: الحقاي: الحقاي الولي المعناي الحقاي: الحقاي: الحقاي: الحقاي: الحقاي الولي المعناي الحقاي: الحقاي: الحقاي: الحقاي: الحقاي الولي المعناي الحقاي: الحقاي: الحقاي: الحقاي: الحقاي: الولي المعناي الحقاي: الحقاي: الحقاي: الحقاي: الحقاي: الولي المعناي الحقاي: الحقاي: الحقاي: الحقاي: الحقاي: الولي الحقاي: الحقاي: الحقاي: الحقاي: الحقاي: الحقاي: الو الحقاي: الحقا:		الجبس واكسسوارات التعليق والتثبيت		موضوع التقديم
١ معنع الخياط للجبس الميذ الميذان	العمل في المشاريع المثيلة	تصنيف المصنع في مجاله	اسم المصنع	سلسل
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	نەم⊠ لا⊡		مصنع الخياط للجبس	
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الع بان المصلم متقصص لى الاعمال الملات الذورين في متقدا للمواحلة والمتعلمات المالية المواحلة والمتعلمات المحلم متقصص لى الاعمال الذورية في التعلق الدوراحلة والمتعلق الدوراحية والعالمان معد الاعمال ومد الاعمال المالية المراوية المعاد وموميله الاستندي عليمان معاد من معاد المراوية المعاد من والد المعاد من معاد المراوية المراوية المراوية المراوية المراوية المعاد من والدوالية مع ملاحلان المراوية المراوية المعاد من والدوالية مع ملاحلان المراوية المعاد من والدوالية مع ملاحلان المراوية المراوية المراوية المعاد من والدوالية مع ملاحلان معاد المراوية المراوية المراوية المراوية المعاد من واليوالية مع ملاحلان من معاد الموالية المراوية المراوية المراوية المعاد من والمراوية المعاد من والمراوية المعاد من واليوالية مع ملاحلان المراوية المراوية المراوية المراوية المراوية المراوية المعاد من والمراوية المراوية المعاد من واليوالية مع ملاحل من واليواليونية المراوية المراوية المراوية المراوية المراوية المراوية المراوية المراوية المراوية المعاد من واليواليونية المواليونية المراوية ا	المرفقات محل الي		فاکس:	هاتف:
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المهندس المختص التوقي التوقي التوقي المسلوم المالية التدريم المحكمة التدريم التوقي التوقي التوقي التوقي التوقي المحكمة والد دسموم المحكمة التدريم المحكمة المحكمة المحكمة التدريم المحكمة المحكمة المحكمة التوقيع المحكمة المحكمة والد دسموم المحكمة وولا دالمحمة ود دلمه ود دلمه ود دلمه محكمة المحكمة وولا دالمحكمة ود دلمه محكمة التدريم المحكمة ود دلمه محكمة التدريم المحكمة ود دلمه محكمة التدريم المحكمة ود دلمه محكمة المحكمة ود دلمه محكمة المحكمة ود محكمة التدريم المحكمة ود دلمه محكمة التدريم المحكمة المحكمة ود الدفعة التدريم المحكمة ود دلمه محكمة التدريم المحكمة ود دلمه محكمة التدريم ود دلمه ود دلمه محكمة المحكمة ود دلمه محكمة ود دلمه محكمة وحد أول المحكمة ود دلمه محكمة وحد أول المحكمة ود دلمه محكمة محكمة المحكمة ود دلمه محكمة وحد أول المحكمة ود دلمه محكمة ود محكمة وحد أول المحكمة ود دلمه محكمة ود محكمة ود دلمه محكمة ود دلمه محكمة ود دلمه محكمة ود دلمه محكمة ود محكمة ود محكمة ود دلمه محكمة ود دلمه محكمة ود دلمه محكمة ود دلمة ود دلمه محكمة ود دلمة ود دلمة ود دلمة ود دلمه محكمة ود دلمة ود محكمة ود دلمة ود دلمة ود محكمة ود دلمة ود محل ود دلمة ود محلة ود محلة ود محلة ود محلة ود محله ود محلة ود محلة ود محله ود محله ود محلة ود محله ود محلة ود محله ود محله ود محله ود محلة ود محله ود		وسوف يقوم بتنفيذها طبقا للمواصفات والمخططات رافنا الكامل ونتحمل كامل المسنولية المترتبة على الأعما	مص في الاعمال المطلوب إسنادها إليه بة المطلوبة لمثل هذه الأعمال وتحت إشر	ا نقر بان المصنع المقدم متخط بينات المعتمدة و الإصبول الفني
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التاريخ التوسية بالمواقفة مع التوصية بالمواقفة مع ملاحظات ها التوسية بالرفس مع إعادة التقديم ٢ التوسية بالمواقفة ٨ مع التوصية بالمواقفة مع ملاحظات ٨ مع التوسية بالرفس مع إعادة التقديم ٢ حر حماضح عديم المتحملان المواد المقد مم والدر فمسوا إن مح المدينة مرا لا كعملان الأدستية ٢ حر حماضح عديم المتحملان المواد المقد مم والدر فمسوا إن مح المدينة مرا لا كعملان الأدستية ٢ على أن في الدوالتي ديب في مع المعدسة و ولار فسسوا إن مح المدينة مرا لا كعملان الأدستية ٢ مع أن في الدوالتي ديب في مع المعدسة و مو المعان مع المعان مع المعان و و و وليد مع أن في المعرف مع وقد مع م لدين و و مع المعروان المدينة من المالة إن من المدينة و و و وليد المهنس المقص مجار مع م لدين و مع من معدوان الموان مع و معان المعان من معان المعان مع المعني المهنس المقص مجار مع م الدين و و مهى المعدوان الموان مع و معان المال إن من المعان مع و معان المعان من المعان مع المهنس المقص مجار مع م الدين و و معى المعدوان الموان مع و معان المعان من معان المعان مع التوقيع مع م عان مع و معان مع م من معدوان الموان مع من معان معان معان معان معان معان م		التوقيع ا	د	المهندس المحتص
التوصية بالمراقلة A التوصية بالدولانة A التوصية بالدولانة A التوصية بالدولانة A التوصية بالدولانة A التوصية بالدولان مع إعادة القديم C ٢ التوصية بالدولانة A حمر المتحدة و المحمر والدرك مسوا (ان المديمة من المديمة مع المحمرة) وجد الرك المديمة وتحدليدة المحمرة وتحدليدة ٢ حمر المتحدة و المحمرة و حو المعال مع المديمة مع المحمرة وجد المعال مع المديمة مع المحمرة و مع المعال المحمرة وتحدليدة وتحدليدة ٢ مع ان في المديمة و المحمرة المحمرة و مع المعال المحمرة و مع المعال المحمرة و المحارة المحمرة و المحمرة و المحمرة المحمرة و المحارة عالم المحمرة المحمرة المحمرة و المحارة عالم المحمرة المحمرة المحمرة المحمرة المحمرة المحمرة المحمرة و المحارة المحمرة	مشاريهم	9/10/2023	9/10/2023	التاريخ
التوصية بالدوانة ٨ حيا التوصية بالدافن مع إعادة القديم ٢ ٢٠ ماضع حدم المتحدين المواد المقدمم والدركسيو (أن المدجب) لا عمر ما كالم محك ورد تليد ٢ ٢٠ ماضع حدم المتحدين إلى والدركسيو (أن المدجب) لا عمر ما كالم محك ورد تليد ٢ ٢٠ ماضع حدم المتحدين إلى والدركسيو (أن المدجب) لا عمر ما كالم محك ورد تليد ٢ ٢٠ ماضع حدم المتحدين إلى والدركسيو (أن المدجب) الا عمر ما كالم محك ورد تليد ٢ ٢٠ ماضع حدم المدوانة (المدين) المعتمدة و حو (محف) ملكر (من طدق الدران عام المدوم) المدون المدون مع ما ليك و مجد المدون (المدونة) المدون مع المدونة) المدون المدون مع ما ليك و مجد المدون المدونة) المدونة				
د مانع مدم اعتماد المواد المقدمة و الدكامسوم ان المدومة من لا عماد الأنسقاد المسلمة على أن في الدوابير والتي دي جاريقاً للعربة المعتمدة و مو اصفات للمسلوع وجد اول الكلمانة و و و للبنة معلم من الملم فاضع وقد مع م ليك قوم على المعواد المواردة المعل المحلومة اللازمة الدوريان على المعنم المعتمدة . (كو ح 8) المعتمدة . (كو ح 8) التوقيع م حجب التوقيع من التوقيع من معاد المحاولة المحلومة اللازمين على المعنم التوقيع م حجب التوقيع من التوقيع من المعاد المحلومة اللازمين على المعنم التوقيع م حجب التوقيع من معاد المحاولة المحاولة المحاولة المحلومة اللازمين على المعنم التوقيع م حجب التوقيع م حجب التوقيع من التوقيع من معاد المحلومة المحلومة اللازمين على المعنم التوقيع م حجب التوقيع من معاد المحلومة الحلومة المحلومة ا		ملاحظات وتوصيات الاستشارى		
على ان دم المؤربية والله دسي لم من كلفتهم المحلمة و هو لمك ف مساوى و يكر ون المعنة ما يهدى الملسم فا صح قائد مي م ليك قرم هي لاصو اد الحراجة للعمل ا علام فتم اللا , فم للدي ردان على العيم المعتمدة . (د. ح. 8)	التوصية بالرفض مع إعادة التقديم C	ملاحظات وتوصياك الاستشاري سية بالموافقة مع ملاحظات B	اققة A معلم التوص	 التوصية بالمو
مريش المسرف مع ذبت مع م ليك قدم عن المعود (المعدر وذة المعمل المعلى المعرم عن المعرف المعاد مع م ليك قدم عن المعرف المعاد مع م المعرف المعاد مع م المعرف المعاد مع م المعرف المعاد مع م المعن مع مالي المتوافع المعاد مع معاد مع المعاد مع معاد مع المعاد مع معاد مع المعاد مع معاد مع مالي المعاد مع معاد معاد مع مالي المعاد مع معاد مع المعاد مع المعاد مع معاد مع مالي معاد معاد مع معاد مع معاد مع المعاد مع معاد مع المعاد مع معاد مع معاد مع المعاد مع المعاد مع معاد مع المعاد مع معاد مع معاد مع معاد مع المعاد مع معاد مع المعاد مع المعاد مع معاد مع المعاد مع معاد مع معاد مع م معاد مع معاد معاد مع معاد معاد مع معاد معاد	التوصية بالرفض مع إعادة التقديم C إ لا عمال الأفسقا المسمع عمار إمار الكعام و ودلس	ملحظات وتوصيل الاستشاري مية بالموافقة مع ملاحظات B ا	الله من التوم حدد المواد المعترمة	التوصية بالمو (مماضح حسم إعتم من أعتم إعتم إعتم إعتم إلى من إلى م من إلى من br>من إلى من إلى ملى ملى من ألى من ألى
المهندس المفتص كار عربي عند المشروع المربع التوقيع عرفي المهندس المفتص كار عربي المشروع المشرف التوقيع عاد التاريخ المالي التوقيع عرفون التاريخ المالي الموادي التوقيع عاد التاريخ المالي الموادي الموادي الموادي التوقيع مندير مشاريخ المطروع المشرف الفقم الفقم الفقم المهندس المعاد التوقيع المقروع المشرف الفقم الفقم الفقم التوقيع مندير مشاريخ المطروع المشرف الفقم الفقم الفقم الفقم الفقم الفقم الفقم المهندس المعاد الجنوبية الفقم الفقم المهندس المعاد الحد الجنوبية الفقم الفقم المهندس المعاد الخاص الفقر الموادي المعادي الموادي المعادي الفقم الفق الفقم	التوصية بالرفض مع إعادة التقديم C إ لا عمال الأنسقة) المسمة ع وجد أول الكمناك و و وليد	ملاطات وتوصيك الاستشاري مية بالموافقة مع ملاحظات B المدجب ب والدكامسيو التي المدجب ب المعتمدة وحو جف مقات المكسرو	الله مع التوم حدد المواد المعدمة والتي دمي في حاً للعينة	التوصية بالمو لاهما مع حسم إعتم على أن وحم المحو إمير
المعتمدة (و 2 5 1) المهندس المفتص كا مرد. من التوقيع مدير المشروع من التوقيع مشاريع الإسكان من التوقيع من حجب التوقيع من معاد من معاد من التوقيع من معاد من معا معاد من معاد معاد من معاد من معاد من معاد من معاد من معاد	التوصية بالرفض مع إعادة التقديم C و لا عمال الأسقاق المسمة ع وجد اول الكمنا و تعاليت ب اللا (عم لدية ريران عام العد	ملحظات وتوصيك الاستشاري سية بالموافقة مع ملاحظات B ا و المرك مسبول ان المدجب ب المعتمدة وحواجت كالمسرو م) لاجواد الموردة لتعل اعل وتر	الله مع التوم حدوا مواد المقدمة والترديب في ما للعربة مع ذيت م في في قوم ف	التوصية بالمو لا حاضع حسر اعتم علم أن وعم المو ربد مطر شد مر) (طسم ف) ح
المهندس المختص كار مركب مدير المشروع للما المؤتم المهندس المختص كار مركب مدير المشروع المقرق من التوقيع محيي التوقيع محيي التاريخ المتاريخ المارية الإسكان التاريخ حار لا ع مرك محلت موافق مع ملحطات مع مدير مشاريخ المتطولة الجنوبية الختم وقر محيي التوقيع مدير مشاريخ المتطولة الجنوبية الختم وقر محيي التوقيع مدير مشاريخ المتطولة الجنوبية الختم وقر محيي التوقيع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير المشروع المقرف التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي مدين التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير التشروغ المقرفي التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير مشاريخ التنظيفية المؤوض محيي التوقيع مع مدير التوقيع مع مدير مناريخ التنظيفية التوقيع مع مدين التوقيع مع مدين التوقيع مع مدين التوقيع مع مدين مع مدير مع مدير التوقيع مع مدين التوقيع مع مدين التوقيع مع مدين مع التوقي مع مدين التوقيع مع مدير التوقي مع مدين التوقيع مع مدين التوقي مع مدين التوقيع مع مدين التوقي مع مدين التوقيع مع مدين التوقيع مع مدين التوقي مع مدين التوق مع مدين	التوصية بالرفض مع إعادة التقديم C إ لا عمال الأدسقا المسمع ع وجد اول اللعنائ و تدليت ب اللا ، عم لدية ريران ع) المي	ملطات وتوصيك الاستشاري مية بالموافقة مع ملاحظات B المدجب ب والدك مسبول في المدجب ب المعتمدة وحو اجت كلمسرو م) لاحواد الموردة لتعل اعل وت	الله مع التوم حدد المواد المعتدمة والترديب في قاللعينة مع ديمتر مع في قوم	التوصية بالمو ومعاضع حسر اعتم على أن فيم المكوريد مارش كالمسرف
المهندس المغتص كا مرمم من مدير المشروع من مدير المشروع التوقيع مرابع الإسكان من التوقيع مرابع التوقيع مرابع الإسكان من التوقيع مرابع الإسكان من التوقيع مرابع الإسكان من التوقيع مرافق مع ملاحظات من مرفوض مع المور مع المطور المطور مع المطور المطور مع المطور المطول المطول المطور المطول المطو	التوصية بالرفض مع إعادة التقديم C و لا عمال الأسقال المسمة ع وجد اول الكمنا و و دلست ب اللا ، مم لديق رران عام العد	ملحظات وتوصيك الاستشاري بية بالموافقة مع ملاحظات B المدجب ب والدك مسبول ان المدجب ب المعتمدة وحواجت كالمسرو م) للعواد الموردة لتعل المله و	الله مع التوم حدد المواد المعدمة والترديب لم يعاً للعربة مع ذبت مع في فري قوم به ح (2)	التوصية بالمو لامائع حسر اعتم على أن فيم الموريد ما بند ما المسرف ح الم يتمدة . (لو
المهندس المفتص كا المرحد من مدير المشروع من التوقيع من مدير المشروع التوقيع من من من التوقيع من من من من من التوقيع من من من التوقيع من من من من من التوقيع من من من التوقيع من من من التوقيع من من من التوقيع من	التوصية بالرفض مع إعادة التقديم C إ لا عمال الأنسق المسمع ع وجد اول اللمعال و و دلست ب اللا , عم لديق رير ال عام المعنى	ملحظات وتوصيك الاستشاري بية بالموافقة مع ملاحظات المستشاري والا كامسيو (ان المدجب مر المعتمدة وحو اجت كالمكسرو م) لاحواد الموروة المتعل ا علم وت	الله مع التوم حدد المواد المعتدمة والترديب في ماللة قدمه مع ديمتر مع في من قدمه مع (13)	التوصية بالمع لامائع حسر اعتم على أن فيم المكوريد مارش كالمسرف ح الم يتمنية . (يو
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ملاحظات وتوصيات المطور مرافق مع ملاحظات المطور مرفوض مرفو مرفوض مرفوض مرفوض مرفون مرفوض مرفوض مرفون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمون مرمو مرمون مرمون مرمون مرمون مرمو مرم مرمون مرمون مرمون مرمون	التوصية بالرفض مع إعادة التقديم C و لا عمد لا لا مسقى المسمع ع وجد اول الكمنا و تحليت - اللا ، عم لليو ريران عام العدم المرابي المنابي المعنى المعدم المرابي المعنى ما العدم المرابي المعنى ما العدم المرابي المعنى ما العدم المرابي المعنى ما العدم المنابي المعنى ما المعنى المعنى المعنى المنابي المعنى ما العدم المنابي المعنى ما المعنى المعنى المعنى المعنى المنابي المعنى ما المعنى ال	ملحظات وتوصيك الاستشاري بية بالموافقة مع ملاحظات B و الدك مسبو (ان الحدجة) المعتمدة و مو جه عن ك الكسرو م) لايعو او الموردة لحمل الحل وية بير المشروع	الله مع التوم حدد المواد المعدمة والتي دمي في ما للعربة مع دجت مي في من قوم ب م 23) مع ما مروم من مع	التوصية بالمو لامائع حسر اعتم على أن وعم المو رب الم يتما المسمون - الم يتمادة - (لا المهندس المفتص
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مدير المشروع المشرف الختم مدير مشاريع المثطقة الجنوبية الختم الختم و المهندس/ احمد الجاسي وقتيح الترقيع المهندس/ ولتي تشخط الترقيع وقتيح الترقيع الترقيع الترتيع الترقيع الترتيع الت	التوصية بالرفض مع إعادة التقديم ٢ و لا عماد الأسقى المسمع و لا عماد الأسقى المسمع ع و لا اول الكمنا و و دلست ب اللا ، مم ددية ريدان ع) المعد التموي بيازان التنموي بعازان مرفوض	ملاحظات وتوصيك الاستشاري مية بالموافقة مع ملاحظات B السني و الد دسسو الم المدجب ، م المعتمدة و حو اجت كمكسرو م التوقيع التوقيع التوقيع التاريخ المحررة لتعمل ا عل و م التاريخ المحرر التاريخ المحرر التواريخ المحرر التاريخ المحرر التواريخ المحرر التواريخ المحرر التواريخ المحرر التواريخ المحرر التواريخ المحرر التاريخ المحرر التاريخ المحرر	الله مع التوم حدد المواد المعدمة والتردب فريقاً للعربة مع ديمة مع فرليك قوم مركز)	التوصية بالمو لا ها مح حسر اعتم على أن في المو ربير ما ربيد مح المسر ف ح ما ربيد مح المسر ف ح الم يت مدة . (يو التوقيع التاريخ موافق
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10.00



Sample attached : YES

Compliance sheet attached :

We certify that the above submitted materials have been reviewed in detail by us and are correct and in strict conformity with the Contract Documents and they do not entail any variation under the contract. We hereby request approval of these materials.

Anticipated period of delivery

Anticipated date for use of materials Technical data sheet attached : YES AUG 2024

Contractor's Representative: Engr. ELSHAZLEY ABDULRASOUI Date: 01-08-2024

Consultant's Representative Response:		
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Progr	am Title:	National Housing Pr	ogram (NHC)					10.000	
Proje	ct'Title:	Developmental House	sing Program	- Wad	i Jaleel.	Contr	act Number	22000369	
The E	mployer:	NHC							
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دار المتحصلة شامىر ومشركوه

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السادة / مجموعة الخياط

المعترمين

السلام عليكم ورجة الد وبركاته ...

بالإشارة إلى السيرة الذائية الخاصة عصانع الخياط للجبس والمسلمة لتا للإطلاع عليها .

لفيدكم بأننا قد إطلعنا على سابق خوراتكم ولا ماتع لدينا من تقديمها للدراسة والإعتماد في المساريح

المستقبلية التي نادوم بالإشراف عليها .

وتتضلوا بتيرك والرتماكا ...

عرادار المندسة للتعبيم والاستشارات الغدية (شاعر ومشاركوه)

المعددس / إسلام الريماوي







إدارة الدراسات

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السادة / مصانع الخياط للجيس

السلام عليكم ورحمة الله وبركاته ...

ثم الإطلاع على النشرة الفنية القدمة من طرفكم الخاصة بمصنع ألواح الجبس بورد (Gypsum Factories) ، أفيدكـم بـإعتمـادنـا لـمصنعكم لأعمال ألواح الجبس بورد وسيتم تصنيفها بإذن الله في الشاريع المستقبلية التي تقوم بها الجموعة .

ولكم خَياتى ...

مساعد المدير العام مدير إدارة الدراسات م. محمد جمال الشاعر

المترمين



شركة ذكرة مسيولية معدودة وأسبالية (٢٠٠ - ٢٠٠ ٢٠٠ ٩٠) منظرع بالكامل. من ٢٢٠ ٢٠٢ ٢٠ من حياء ١٩٩٨ مسينة ١٩٩٩/١٦ الفلكة المربية السيوية = تيليني ١٩٤٩٠٢٢ ولكس ١٩٠ - ١٩٢٢- تسيية ١٩٠٨ و

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CONTRACTING 25T.



حد السرايا البيضاع. س

April 13, 2013

To whom it may concern,

This is to certify that EL KHAYYAT GYPSUM FACTORY gypsum boards are being used in our projects because they comply with the standard codes and requirements.

Below are the products we are using:

1. Regular type 12.5 mm thick x 1.20m x 2.40/3 m long

2. Moisture resistant type - for wet areas: 12.5 mm thick x 1.20 m x 2.40/3 m long

These products are highly recommended by our company.

Hamed M. Paghmenur White Mansion Contracting Est. CED



اليهة بلائل = مكتب رقم ٢٠٢ = مانتان : ٦١٩٨٨٦١ = لمكتن: ٦١٩٨٨٨ = عربة تجارية : ٢٠٢٠١٨٦١ = ٢٠٢٠٩٢ جنة ٢١٣٩٢ = المربية السعردية Madina Plaza - Office No. 603 - Reb 698 8610 - Fac 6918285 - CR 4030181645 P.O.Bost 126535 - Jeddah 21352 Kingdom of Saudi Arabi



REP NO: CR/294-12/RSM

DATE: 07-04-2012

TO WHOME IT MAY CONCERN

WE CERTIFY & ACCEDE IT THE PRODUCT GYPSUM BOARD TYPE REGULAR AND MOISTURE RESISTANT FROM EL-KHAYYAT GYPSUM FACTORY WITH THE POLLOWING SPECIFICATIONS.

THICKNESS: 12.5 MM WIDTH : 1.2 M LENGTH: 2.4 M & 3 M

CERTIFIED BY

AZZAH TRADING & CONTRACTING CO. LTD.

freed

RIAZ SHARIF MORAMMED COMMERCIAL MANAGER



Abdulla Al Baloushi Group Limited



Tec

M/S. EL KHAYYAY RED BRICKS MANUFACTURING

El Khayat Commercial Center, P.O. Box 3300, Jeddab 21471, Saedi Arabia

Teh (02) 6633337; Fax: (02) 6651039

To Whom it May Concern

We certify and accredit the product Gypsuin Beard Type Regular and moisture resistant from B-Khoyyat Gypsum Factory with the following Specification:

Thickness 12.5mm

Width 1.2m

Length 2.4m / 3m

Engr. Mohommud Alamgir

General Manager



محصد أبوالتعمير Mohammad Abu Talib For Construction & Builiding السادة / مصنع الخياط

بعد السلام عليكم ورحمة الله وبركاته

نفينكم علما بأننا اعتمدنا مصنعكم الخاص بألواح الجبسمبورد الرطوبة والحريق والعادى لدى مشروعنا بالحرس الوطنى (عيادات الخزامى) من وكالة موسسة درة الهدى بجدة حيث ان اجمالى المشروع حوالي ٤٠٠٠٠ متر مربع أسقف وجدران .

ولكم جزيل الشكر



المملكة العربية السعودية – المدينة المتورة – اشتراك الغرطة ٧١٩٥ س.ت ١٤٠٧٤ ت ١٤٠٠٦٤ (لا خط) هاكس ٨٢٢٥٤٩٩ ص.ب Kingdom Of Saudi Arabia Al Madina Al Munawwara -M.C.C. No, 7195 C.R. 14074 - Tel : 8230064 (4 Lines) Fax : 8225499 - P.O.Box : 896





April 3, 2012

TO WHOM IT MAY CONCERN

This is to certify that the GYPSUM BOARDS manufactured by EL KHAYYAT GYPSUM FACTORY which comply with standard codes and requirements are being used in our projects.

The factory produces two (2) types of gypsum boards with the following specifications:

- 1. Regular type: 12.5 mm thick x 1.20 m x 2. 40/3.00 m long.
- Moisture resistant type (for wet areas) : 12.5mm thick X 1.20 m x 2.40/3.00m long.

The use of these gypsum boards is highly recommended by our company mainly of its quality as accredited by our consultants and its availability,

First Advanced Contracting Co.

Sobhi Jisri, MSCE

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DRAFT WARRANTY

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10 YEAR EL-KHAYYAT PRODUCT WARRANTY

PROJECT CLIENT CONTRACTOR

This warranty is given by EL-KHAYYAT GYPSUM COMPANY and is made in reference to the above project.

EL-KHAYYAT warrants that:

The products listed below, supplied in relation to the above project will be of 'satisfactory quality' and manufactured to the following relevant standards

0	EL-KHAYYAT Plasterboards • BS EN 520 • ASTM C 1396	0	 EL-KHAYYAT Screws ASTM C 1002 – 18 ASTM C 954 – 18 ASTM C 1513 – 18 	0	EL-KHAYYAT Jointing Compound & EL-KHAYYAT Paper Tape • ASTM C 475
0	EL-KHAYYAT X Board • ASTM C 1177 • ASTM C 1658	0	Insulation • ASTM C 553 • ASTM C 665	0	Cement Board • ASTM C 1186: Type A Grade II
0	EL-KHAYYAT Screws • ASTM C 1002 – 18 • ASTM C 954 – 18 • ASTM C 1513 – 18	0	EL-KHAYYATMetals • EN 14195:2005 • EN 10162:2003 • ASTM C 645	0	Sealant • ASTM C 834

EL-KHAYYAT will accept liability under this warranty for the cost of replacing products as listed above which are manufactured outside the tolerances set by the standards listed for a period of 10 (ten) years from the date of purchase.

In addition, whilst minor dents and scratches in plasterboard, particularly around the edges, are taken care of by standard jointing techniques; we would also take liability for any other manufacturing defects. Furthermore, where fade acoustic plaster is used, any product defects such as poor bonding, discoloration and product delamination will also be covered under this warranty for the period mentioned.

Ensure any failure of materials is reported in writing to the Gyproc Technical Team through email or by registered courier within four weeks of the defect occurrence.

Regards,

Eng. Hithem El-Khayyat

General Manager El-Khayyat Gypsum Company KSA

METHOD STATEMENT DRYWALL PARTITION



1. GENERAL REQUIREMENTS

1.1 The installer shall supply and install the gypsum board in accordance with specification as shown on the drawings.

2. SUBMISSION DOCUMENTS

2.1 Technical Data: technical data, test certificates, installation instructions and valid certificates for fire rated assemblies for approval prior to commencement of work will be provided by manufacturer.

3. DELIVERY, STORAGE AND HANDLING

3.1 Coordinate deliveries to comply with Construction Schedule and arrange for off-the ground storage. Do not load any area beyond the safe design load limits.3.2 Do not store product outside. Stack gypsum/calcium silicate boards flat on a smooth, even, dry surface.

4. SITE CONDITIONS

4.1 Install work only in areas closed and protected against weather. Provide adequate ventilation and dehumidification to eliminate excessive moisture in the areas of work to ensure proper drying, setting or curing of the compounds.

4.2 Do not install work in any area unless satisfied that work in place has dried out, and that no further installation of damp materials is contemplated.

5. PRODUCTS

5.1 Gypsum Board of selected thickness (12.5mm, 15mm, 16mm or 19mm) to be used. 5.2 Stud of selected width (50mm, 64mm, 70mm, 92mm, 100mm or 150mm) to be used which is determined by architect in the specification.

5.3 Jointing Compound

5.4 Joint Tape

Single Stud Partition System

SingleStud Partition Systems

Single Stud Partitions are economical friction-fit systems used for the assembly of frames for non-load- bearing partitions. The unique design of the components ensures high strength with easy installation. Boral partitions are suitable for both residential, commercial and industrial use. They are strong high performance systems which are:

I.

- cost effective
- lightweight (up to 10 times lighter than brick)
- •versatile (accommodates building design)
- able to achieve high levels of fire resistance
- able to achieve high acoustic insulation
- able to resist impact and abrasions
- able to achieve high quality surface finishes

Performance Board Partitions

Performance board partitions comprise of a C Stud framing and El-Khayyat plasterboards provide a stronger partition which is more resistant to knocks and scratches.

In addition, El_Khayyat partitions also provide superior sound insulation and fire resistance when compared with partitions using Standard Core plasterboards.

Performance

The selection of C Stud size, and the type, number and thickness of plasterboard layers will depend on the partition height and the performance required for fire resistance and sound insulation.

Components



U Track



Deflection U Track





C Stud

Flat Strap



Fire Acoustic Sealant



Screws

Fixing Channel



U Track fixed to floor at 600mm max centres

Jointing

All plasterboard joints should be taped and jointed as specified in this manual, refer to Finishing Solutions for details.





Single Stud Partition System

Head and Bottom Detail

T Junction Detail



Internal and External Detail



C Studs fixed together at 600mm centres, and to floor

End Detail





Partition to Masonry Detail



Splayed Corner Detail



Single Stud Partition System

Door Frame Detail





Door Opening Detail 50kg to 75kg



Door Opening Detail 76kg to 100kg



Door Base Detail



Section AA

Twin Stud Partition System

Twin Stud Partition Systems

Twin Stud Partition Systems are non-load bearing partitions designed for installations requiring enhanced fire, sound and impact resistance and for use in creating exceptionally wide or high partitions in excess of 10m.

As well as the benefits mentioned above the Boral Twin Stud Partition Systems are also ideal for easier installation of mechanical and electrical services which run through the twin frame system.

This has made these partitions popular for buildings ranging from manufacturing facilities, multiplex cinemas, hotels and multi-occupancy buildings to hospitals.

Twin Stud Partition Systems are constructed using two separate metal stud frames set a minimum of 30mm apart and braced together as specified using either Acoustic V Brace, plasterboard, C Stud or U Track. Once frame is erected plasterboard is then faced onto each side of the twin frame.

Performance

The selection of C-Stud size, and the type, number and thickness of plasterboard layers will depend on the partition height and the performance required for fire resistance and sound

insulation, refer to performance tables in this section.

Jointing

All plasterboard joints should be taped and jointed as specified in this manual, refer to the section on Finishing Solutions for details.

Components



U Track





Screws



k Flat Strap





Fire Acoustic Sealant





V Braced



Stud bracing using Acoustic V Brace



• Twin Stud Partition System



High Performance T Junction Detail

Metal Frame Installation Detail

Installation of UTracks

Fix U Tracks to floor and ceiling with appropriate fixings at 600mm maximum centres, the first and last fixing point must be no greater than 50mm in from the UTrack ends.

For 150mm U Tracks two lines of screws are required as shown opposite.

If applying the U Tracks directly to new concrete which has not completely dried out, a damp proofing membrane should be used.

For floors that are uneven or being screeded after the installation of the partition, a timber sole plate may be required.

Note: For partitions 4.2m and above U Track Deep Flange should be used.

Installation of CStuds

Unless otherwise specified, cut C Studs 5mm shorter than the floor to ceiling height to allow for floor variations and minimal deflection. Insert C Studs into the U Tracks and twist to lock.

Perimeter C Studs should be fixed at 600mm maximum centres with the webs flat against abutting walls or partitions.

The intermediate C Studs should all face the same way and be positioned at 600mm maximum centres or as specified. Arrange the framing so that plasterboard widths of less than 300mm are avoided. Intermediate studs should not be fixed to

U Track unless specified to allow for slight stud adjustment when fixing boards.

Splicing C Studs

C Studs are asymmetrical (33mm and 36mm) to allow C Studs to be spliced together to extend for height.

C Studs should be overlapped by 600mm and secured fixed at 150 mm centres on both flanges with two Wafer Head Screws.

When partition height exceeds 4 metres, the overlap should be increased to 1000mm.

Boxing C Studs

C Studs may be boxed together to give partitions greater rigidity and height and to provide support at doorways.

To avoid bulging the U Tracks leave 50mm both ends as single stud.

Note: Studs greater than 0.7mm guage should not be boxed.

50mm 600mm 600mm

Fixing U Tracks

Screw Sequence

Single line of screws for 52, 64, 74 and 94mm **U** Tracks

Double line of screws for 150mm

U Tracks



Spliced Studs

Boxed Studs





with 600mm overlap

Installation of Gypsemna Plasterboards

Installation of plasterboards

Plasterboards should be installed leaving a 5 to 10mm gap at floor level, this ensures any moisture/damp in the floor will not pass into the plasterboard.

Install full sheets of plasterboard onto one side of the partition by screw fixing the edges of the board onto the C Studs and U Tracks using the correct length of Plasterboard Screw, no screws should be fixed in the middle of the board at this stage.

Once completed start boarding the opposite side of the partition starting with half a board to ensure plasterboard vertical joints will be staggered from side to side which provides strength to the partition. For partitions with 2 layers of board each 2nd layer must also be staggered with the first layer, see details opposite.

Screw fixing of plasterboard

Pplasterboards are fixed using Plasterboard Screws at 300mm centres in field of board. Perimeter of board, partition, door and window openings should be screw fixed at 200mm centres.

Installing screws

Drive screws squarely through plasterboard and into the framing until screw head is just recessed below the plasterboard surface, screws should not break through the plasterboard paper.

Position screws:

- At least 10mm in from paperbound edges of plasterboard.
- At least 12mm in from cut edges of plasterboard.
- · At least 3mm in from the edges of metal framing.

Recommended screw lengths

To select the correct length of plasterboard screw see table opposite.

Number of board layers	Plasterboard thickness mm	Minimum Screw length mm
Single layer	12.5	25
	15	30
Daubla lavas	12.5 + 12.5	38
Double layer	15 + 15	44

Partition Boarding

Single boarding



Double boarding



Plasterboard Screw Fixing



Installation of Door and Window

Door and Window Openings

Doors and windows can be built into the partitioning by positioning and fixing full-length studs on each side of the openings. U Track is used and cut to form the head of the opening, and lined with timber for fixing of door frame.



Plasterboard Around Door Openings

Cut plasterboard for door openings as show to avoid joints running parallel to framing studs at side of door. Stud position shown dotted.



Note: To avoid risk of cracks, plasterboard joint above door opening should not be on the door opening studs. Position plasterboard joints between the door studs as shown

Over- Height Partitions



Double Layer Boarding



Flat Strap can be fixed horizontally between two metal studs to provide extra support and maintain fire integrity of the partition system and when board heights are exceeded, see below.

Installation of Service Outlets

Service Outlets

If electrical services are to be installed in high performance partitions it is essential to maintain the fire and acoustic performance of the partition system.

Service outlets should be offset so that they do not lie back-to-back. Use Fixing Channel as cross noggins to support outlets as necessary, and seal around them with Fire Acoustic Sealant. To maintain fire performance, form a baffle with 15mm Fire Rated board extending at least 300mm above and below the outlets and secured to Metal Angle in the centre of the cavity.

A baffle box is required even where there is a service box on one side only.



Example: Service Baffle In Partition With 60 Minutes Fire Rating



Installation of Service Outlets

Pipes and Cable Tray Penetrations.

If pipes and cable trays are to run through Boral partitions it is essential to maintain the fire and acoustic performance of the partition system. Details on this page give some examples on how to maintain these performances.

With regards to protecting the pipes and cables trays themselves then advice should be gained from appropriate fire protection suppliers.

For further information contact: Boral Technical Support Centre.

Multiple Pipe Penetration Through Fire Rated Partition (Elevation And Plan)



Noggins top and bottom formed from **U Track**



Single Pipe (<50mm Penetration Through Fire Rated Partition)



Cable Tray Penetration Through Fire Rated Partition (Elevation And Plan)

Outer extent of 15mm Fire Rated pattress – pattress formed Centre joint of pattress and junctions between pattress and pipes are sealed with **Fire Acoustic** Sealant



Cable tray supported from structure both sides of partition Noggins top and bottom formed from **U Track**



Index	Item	Description of Fixing	Safe Load Kg
A	()	Self Tapping Drywall Screw High Thread Drywall Screw Fixing into Plasterboard	3 4
В		Metal Self-Drive - into single layer plasterboard 6 Metal Self-Drive - into double layer plasterboard Fixing into Plasterboard	6 10
С		M5 x 40 Cavity Fixing into plasterboard (board thickness up to 12.5mm) Fixing into Plasterboard M5 x 65 Cavity Fixing into plasterboard (board thickness from 15mm to 28mm) Fixing into Plasterboard	15 20
D	4	M6 Spring Toggle into plasterboard Fixing into Plasterboard	21
Е		Drywall Screw - fixed through plasterboard into metal C stud of flat strap Fixing through Plasterboard into 0.5mm C Stud	20
F		M5 x 40 Cavity Fixing into metal C stud or Flat strap (board thickness up to 12.5mm) Fixing through Plasterboard into 0.5mm C Stud M5 x 65 Cavity Fixing through plasterboard into metal C stud or Flat strap (board thickness from 15mm to 30mm) Fixing through Plasterboard into 0.5mm C Stud	45 50
G		Self drilling Screw - fixed through plasterboard into minimum 0.9mm metal stud / fixing channel Fixing through Plasterboard into 0.9mm Fixing Channel	50
н		No. 12 self tapping Screw - fixed through plasterboard into 0.6mm metal stud / fixing channel Fixing through Plasterboard into 0.9mm Fixing Channel	d 30
I		Heavy duty Plastic Plug - fixed through plasterboard into masonry with 40mm minimum penetration Fixing through Plasterboard into Masonry	20
J		8mm Frame Fixing - fixed through plasterboard 60 into masonry with 40mm minimum penetration Fixing through Plasterboard into Masonry	60
к		M8 metal Loose Bolt - fixed through plasterboard 130 into masonry with 40mm minimum penetration Fixing through Plasterboard into Masonry	130
L		No. 12 High thread screw - fixed through plasterboard into 40mm timber or 18mm / plywood nogging Fixing through Plasterboard into timber or plywoo	d 120

Installation of Service Outlets

Typical Plasterboard Fixings For Light Weight Fixtures



LOAD	EXAMPLE	NOTE
VERY	Small picture	-
LIGHT		
LIGHT	Mirrors Floor Cupboards Light fittings Coat hooks	See manufacturer's literature for Maximum loadings
MEDIUM	Radiators Wall cupboards Water heaters Sanitary ware	See diagrams below See manufacturer's literature for Maximum loadings
HEAVY	Wall mounted sanitary ware Large wall cupboards Heavy shelving	See diagrams below See manufacturer's literature for Maximum loadings

Typical Plasterboard Fixings For Medium Weight Fixtures



Plywood Support Pre-Installed For Heavy Weight Fixtures



METHOD STATEMENT CEILING SYSTEM



1.0 Objective To outline the work instruction by which ceiling works is carried out.

2.0 Scope This work instruction shall apply to all ceiling work on building.

3.0 References Inspection and Test Plan Inspection Form Specification Construction Drawing Material Submission – Approved sample and Technical Data

4.0 Responsibilities Engineer, Project and/or Site Supervisor

5.0 Material 9mm or 12.5mm Plasterboard Ceiling board, EL35 or EL 45 galvanized iron ceiling batten, jointing compound, paper tape.

6.0 Handling and Storage of Materials Handling

Ensure ceiling board is not bent and deformed.

Storage: Deliver the product to protected area and stack the board flat and dry surface.

7.0 Plant, Machinery and Equipment Ramset Concrete Nailer, Ramset Ceiling gun, Bench, Basic hand tools, laser.

8.0 Work Methodology

8.1 Levelling: Level the ceiling height by use of water level or laser beam position of perimeter profiles is to be marked on walls, column etc.,

8.2 Hanger will be installed at maximum distance of 1200mm from center to center.

8.3 Primary Channel EL35/45 ceiling channel is spaced at 800mm center to center.

8.4 Secondary Channel 8.4.1 EL35/45 ceiling channel is spaced at 1000mm center to center.

8.5 Board are screw fixed onto EL35/45secondary channel that are spaced at 400mm center and secured onto EL35/45 primary channel spaced at 800mm center to center and screw fixed onto ceiling hanger that is spaced at 800mm center.

Ceiling Details

Concealed Ceiling Systems

Concealed Ceiling Systems are typically used for commercial and industrial applications but can also be used in residential buildings that allow big enough ceiling voids to accommodate the ceiling system. Concealed Ceiling Systems not only provide beautiful flush flat ceilings but can also provide fire protection and sound insulation.

Recommended maximum ceiling loadings

Suspension Centres(mm)	Primary Channel Centres (mm)	Max. Loading including plaster -board (kg/m2)
1200	600	74
1200	900	50
1200	1200	35

Maximum framing centres

Ceiling Safety

Ceiling Systems are classed as nontrafficable ceilings and should not be walked upon by installers or other trades people.



Board Thickness (mm)	BoardLength (mm)	Ceiling Channel Centres (mm)
12.5	2400 3000	400 600
15	2400 3000	400 600



Ceiling Details



Cove Light Bulkhead





Curtain Box Bulkhead



Ceiling under stairs



Boarding

Single Layer Of Plasterboard

Detail shown are for boarding ceilings with one layer of plasterboard only, boards should at fixed at right angles to ceiling runners.



Double Layer Of Plasterboard

Detail shown is for boarding ceilings with two layers of plasterboard, boards should at fixed at right angles to ceiling runners. The second outer layer of plasterboard should be fixed so all joints are staggered from the inner layer.



Screw Fixing

Screw Fixing Of Plasterboard

Plasterboards are screw fixed using Plasterboard Self Tapping Screws at 230mm centres in field of board and at 150mm centres around perimeter of ceiling and at cut ends of boards.

Installing screws

Drive screws squarely through plasterboard and into the framing until screw head is just recessed below the plasterboard surface, screws should not break through the plasterboard paper.

Position screws:

- At least 10mm in from paperbound edges of plasterboard
- At least 12mm in from cut edges of plasterboard
- At least 3mm in from the edges of metal framing.

For recommended screw length see table opposite.

		5
Number of board layers	Plasterboard thickness mm	Minimum Screw lengthmm
Single Lavor	12.5	25
Single Layer	15	32
Double Layers	12.5+12.5	38
	15+15	44
TripleLayers	15+15+15	64

Recommended screw lengths





METHOD STATEMENT DRYWALL LINER

Drywall Lining



1 GENERAL REQUIREMENTS

1.1 The installer shall supply and install the gypsum board in accordance with specification as shown on the drawings.

2. SUBMISSION DOCUMENTS

2.1 Technical Data: technical data, test certificates, installation instructions and valid Bomba's certificates for fire rated assemblies for approval prior to commencement of work will be provided by manufacturer.

3. DELIVERY, STORAGE AND HANDLING

3.1 Coordinate deliveries to comply with Construction Schedule and arrange for off-the ground storage. Do not load any area beyond the safe design load limits.3.2 Do not store product outside. Stack gypsum/calcium silicate boards flat on a smooth, even, dry surface.

4. SITE CONDITIONS

4.1 Install work only in areas closed and protected against weather. Provide adequate ventilation and dehumidification to eliminate excessive moisture in the areas of work to ensure proper drying setting or curing of the compounds.

4.2 Do not install work in any area unless satisfied that work in place has dried out, and that no further installation of damp materials is contemplated.

5.0 PRODUCTS

5.1 Gypsum Board of selected thickness (12.5mm, 15mm, 16mm or 19mm) to be used. 5.2 Stud of selected width (50mm, 64mm, 70mm or 90mm) to be used which is determined by architect in the specification.

5.3 Ceiling batten of 16mm x 36mm x 0.55mm to be used

- 5.4 Jointing Compound
- 5.5 Paper Tape



Drywall Lining

6.0 INSTALLATION GUIDE

6.1 Install metal wall framing in strict accordance with manufacturer's instructions.

Determine and mark the wall position and make allowance for openings.

6.2 Adjust the flatness with a laser before fixing the stud/ceiling batten onto the brick wall. Fix channel along center line of floor at 600mm centers with suitable fixings.

6.3 Gypsum/calcium silicate board are screw fixed at 300mm to the framing system with spacing of 300mm. Wall anchor of 600mm distance to hold bracket which connected to the framing system.

6.4 Adjust the metal framing by laser guide to ensure flatness of the wall lining.

7.0 JOINTING

Reinforce all interior and exterior corner/angle and panel joints for wall surface with paper tape embedded in and finished with jointing compound.

7.1 First Coat

- 1) Using a trowel, apply compound to the plasterboard recessed joint formed by the recessed edge of the board. The compound should be applied 3mm-5mm thick to help with tape bonding.
- 2) Centre the paper tape along the joint
- 3) Leave sufficient compound under the tape to achieve a good bond.
- 4) Immediately apply a thin coat of compound over the tape. This reduces the possibility of the tape edge curling or wrinkling which could lead to cracking.
- 5) Cover all fastener heads and allow first coat to set/dry. Leave all joint and fastener heads with a smooth finish and feathered edges.
- 7.2 Second Coat
- When the first coat has set/dried scrape back any build up of compound. Apply a second coat of compound using a trowel. The second coat should be finished as flush as possible to the board face.
- 2) Using a trowel, cover fastener heads with a second coat approximately 25mm wider then the first coat. 3) Allow to set/dry.

7.3 Third Coat

- 1) When the second coat has set/dried, scrape back any build up of compound along the joint, to give a smooth and level surface.
- 2) Apply a finishing coat with a trowel to a width of approximately 275mm. A wet sponge may be used on the joint edges to help achieve a smooth finish.
- 3) Apply a finishing coat to fastener heads approximately 25mm wider then the second coat.
- 4) Allow to set/dry completely.
Close-Fit Wall Lining System

Close-Fit Wall Lining System is an ideal solution for lining more severe irregular dry masonry walls with plasterboard. The system is simple, fast to install and cost effective making it suitable for many internal applications.

Typically used in commercial projects it also offers particular benefits in reducing sound flanking transmission through the path of masonry walls which partitions abut.

Close-Fit Wall Lining System is fixed directly to the existing background, allowing a cavity between wall and back of plasterboard ranging from 20mm to 70mm.

This system can therefore be used for all common lining applications:

- To level out uneven masonry surfaces
- To allow for hidden mechanical and electrical services
- To increase levels of acoustic performance
- To increase levels of thermal performance

This system is also ideal for screw fixing of plasterboards which can not be direct bonded: Regular, Moisture Resistance, Fire Rated, Fire Rated Moisture Resistanceand

Performance

The selection of lining systems, insulation and boarding will depend on the wall height and the performance required for fire resistance, thermal and sound insulation: refer to performance tables in this section.



Bracket



Main Components



J Channel



Smart Connector



Universal channel



Expansion Bolt



Close-Fit Bracket



Screws (as appropriate)



Framing Centres							
Board Thickness (mm)	Board width (mm)	Horizontar Framing Centres (mm)	Vertical Bracket Centres (mm)				
12, 13 and 16	1200	600	800				

Floor And Head Detail





Internal Corner Detail Junction



External Corner Detail



Junction With Partition Detail



Introduction

Independent Wall Lining System

Independent Wall Lining system is especially suited for lining reinforced concrete walls and steel framed walls, walls which have severe irregular surfaces, and external walls that have suffered damp ingress, but then treated with appropriate damp proofing systems.

Fixed clear of the external wall, this system allows space for both mechanical and electrical services, or for high levels of thermal and acoustic insulation. This system is commonly specified for applications ranging from factories and warehouses to hotels and multiplex cinemas.

The system uses C Studs and U Tracks as used in the Partition systems. Glass mineral wool batts can be inserted into the framing to improve the thermal and acoustic performance of the system.



Performance

The selection of lining systems, insulation and boarding will depend on the wall height and the performance required for fire resistance, thermal and sound insulation: refer to performance tables in this section.

Main Components





C Stud



Deep Flange U Track









Head Detail



Leave a 5~10mm gap above board and fill with Fire Acoustic Sealant

FloorDetail

Minimum 10 mm cavity



Minimum 10mm cavity

External Corner Detail



back-to-back C Studs

Junction With Partition Detail



Door Or Window Detail



10mm Deflection HeadDetail

back-to-back C Studs



Movement Control Joint Detail



Internal Corner Detail

GUIDELINES

DW-S1-G1 CONNECTIONS ANDJOINTS



Maximum structural heights are calculated for a static wind loadof 240 Pa (5 psf) at deflection criteria L/240.



DW-S1-G1 Wall Connection





PLAN



DW-S1-G1 Joint

ELEVATION

PLAN



DW-S1-G1 Head detail



DW-S1-G1 Corner detail



Trim if necessary





DW-S1-G2 Wall Connection

PLAN



Maximum structural heights are calculated for a static wind loadof 240 Pa (5 psf) at deflection criteria L/240.





DW-S1-G2 Joint

DW-S1-G2 Based detail

ELEVATION



DW-S1-G2 Head detail



- Gypsum Board - U Track

Drywall Screw

Corner Tape

C Stud

Insulation Material

DW-S1-G2 Corner detail



Corner Bead or Corner

DW-S2-G2 CONNECTIONS ANDJOINTS



Maximum structural heights are calculated for a static wind loadof 240 Pa (5 psf) at deflection criteria L/240.



DW-S2-G2 Wall Connection

PLAN







PLAN





DW-S2-G2 Based Detail

ELEVATION



DW-S2-G2 Joint & Bracing

ELEVATION



SH-G2 (Shaftwall Double Layer) CONNECTIONS AND JOINTS



Structural Heights for 610 mm stud spacing

Maximum structural heights are calculated for a static wind load of 240 Pa (5 psf) at deflection criteria L/240.



"CT" Stud spacing

PLAN

Shaftwall Wall Connection

PLAN





Shaftwall Wall Based

ELEVATION

PLAN



Shaftwall Joint connection

Shaftwall T-Junction

PLAN



Shaftwall Corner Detail

PLAN



Shaftwall Head Connection, up to 10mm deflection

ELEVATION







GENERAL REQUIREMENTS

JOINTING

- Jointing should be done with joint compound Knauf Readygips and Knauf Joint Tape.
- On double layer partitions, jointing can be done only for the outer layer.

CONNECTIONS SEALING

- For acoustic requirements, seal the perimeter connections with acoustical sealant. Prior to fixing the perimeter tracks and studs, apply acoustical sealant on the backside.
- For fire requirements, seal the perimeter connections with fire sealant tested according to required standard.

FIRE PENETRATION

- Use approved fire penetration details and sealants.
- M&E cabling can be inserted through C studs.
- Insulation materials such as rock wool, glass wool, should be installed within the C studs. The insulation can be fixed either friction fit or fixed securely by other means.
- Once the insulation + cabling work is finished, the board on the other side of partition should be cladded
- Power sockets, switch sockets, splitter sockets etc. are allowed to be installed at any position.
- In systems with sound requirements, do not install power sockets opposite to each other.
- Electrical socket boxes can be formed by using punching tools.
- For fire rated systems, the socket must be fire rated with minimum the same fire rating as the partition.

General requirements

Control joints

- At maximum 10m.
- At all control / expansion joints present in the structure.
- At any change in the substrate material.

Connections sealing

- For acoustic requirements, seal the perimeter connections with acoustical sealant
- M&E cabling can be inserted through C studs
- Insulationmaterials such as stone wool, glass wool, EPS should be planted within the C studs.
- The insulation can be fixed either friction fit or fixed securely by othermeans.
- Once the insulation + cabling work is finished, the board on the other side of partition should be cladded

Power sockets, switch sockets, splitter sockets etc. are allowed to be installed at any position. In systems with sound requirements, do not install power sockets opposite to each other Electrical socket boxes can be formed by using punchingtools

- For fire rated systems, the socket must be fire rated with minimum the same fire rating as the partition.
- Use tested and certificated putty pads for sockets in fire rated systems. .

Processing gypsum boards

Cut the paper face with a sharp knife

Score the board by pushing along the cut side, then cut the other paper side





Smooth the cut edge with a beveler





Cut the board 45 degrees

- Gypsum Boards shall be cut by scoring and breaking or by sawing
- When cutting by scoring, the face paper shall be cut with a utility knife
- Gypsum boards shall be broken by snapping boards in the reverse direction, then cutting the back paper with a utility
- knife Cut edges should be smoothed with Knauf Beveler / Rasp Combo to obtain neat joints when installed
- Short edges should be chamfered with Knauf Beveler / Rasp Combo
- Holes for pipes or other small openings shall be scored on the back and the face outlined before removal / cut out with a purposely designed tool.





Jointing

upper layer.

Fire penetration

Jointing should be done with joint compound

On double layer partitions, jointing can be done only for the

Use approved fire penetration details and sealants.

Readygips and Joint Tape.

Studs positioning



Positioning the tracks and perimeter studs

Mark location of partitions accurately on concrete structure with stringline / laser

- Bottom and top track shall be aligned accurately at the floor and ceiling
- (at 500 mm center for fire rated partitions) and maximum 50 mm from end of track

Studs positioning - splicing of studs



Vertical extension of studs (splicing)

Stud size	Overlap u	
CW 41	≥ 41 cm	
CW 64	≥ 64 cm	
CW 89	≥ 89 cm	
CW 102	≥ 102 cm	
CW 152	≥ 152 cm	

Calculation example:
Option 1 C Stud 64 – overlap 64cm
Option 2 C Stud 64 – additional piece CW 64, 128cm
Option 3 C Stud 64 - additional piece of UW 64, 128cm

- Displace stud joints vertically
- In the overlap area, rivet, screw attach or crimp the studs

Cladding of boards



Fixing

- Gypsum Board should be fixed vertically on the metal stud framework
- Boards should never touch the floor .Approximately 10 mm of gap should be left at the floor connection when fixing boards
- The gap should be filled with sealant or mastic
- Vertical edges should be staggered by 600mm. Horizontal edges should be staggered by at least 305 mm.
 - Both joints (horizontal and vertical) on opposite side of partition should be staggered
- For multi-layer cladding, second layer should be staggered both horizontally and vertically

Connections sealing

- For acoustic requirements in non fire rated partitions, seal the perimeter connections with acoustical sealant
- For acoustic and / or fire requirements in fire rated partitions, seal the perimeter connections with fire and acoustical sealant

Joint treatment

- Board surface should be cleaned of materials such as dust, oil etc.
- Filling and covering of joints should only take place after the boards have been allowed to rest in the given humidity and temperature zones, and no more longitudinal changes can be expected, i.e. expansion or contraction.
- In case of mastic asphalt screed, fill in joints after screed has been applied.
- First coat of Knauf Joint filler should be applied with tools of sufficient width to extend a minimum 50 mm beyond both sides of the centre of the joint (100 mm width).
- Knauf Joint Tape should be embedded into the joint filler to reinforce the joint between two gypsum boards
- Once the first coat has dried, a second coat of Knauf Joint filler should be applied with 100 mm width on both sides of the centre of the joint tape (200 mm width).
- A very thin third coat of Knauf Joint filler should be applied with a minimum width no less than 150 mm beyond both sides of the centre of the joint tape (300 mm width).
- Once third coat has dried, surface should be sanded and smoothed
- Corner Bead should be used for exterior cornerreinforcements
- Corner Tape can be used to reinforce interior or exteriorcorners







Pre-Treatment

Before further linings (wallpaper) are applied, the surface must be free of dust and pretreated according to lining manufacturer.

Suitable coatings and linings

Wallpaper (paper, nonwoven, textile and synthetic wallpapers) Ceramic tiles*, plasters (full surface thin plaster coatings) Coatings (emulsion-based paints, emulsion-based silicate paints)

Unsuitable coatings

Jointing Compound coats such as lime-based paints, silicate-based paint and pure silicate paints are not suitable to be applied on gypsum boards.Gypsum board paper surfaces that have constantly been exposed to light without any protection can develop yellowing agents that show

up despite a coat of paint. Therefore, a trial coat is recommended that will extend across several boards including all joints. Yellowing can, however, be successfully avoided only by using a special shielding primer.

PROFILES

C studs, ASTM C 645

Galvanized lightweight steel sections, to be used with non load bearing partition systems, zinc coating Z140. Galvanization Z180 available on request.

Standard length 3.00 m. Customized lengths upon request, subject to terms and conditions.

Stud size	Flange		
CW 15/8" (CW 41mm)	CW 15/8" (CW 41mm) CW 21/2" (CW 64mm) CW 31/2" (CW 89mm) CW 41/32" (CW 102mm) CW 563/64" (CW 152mm)	25 GA 0.5 mm thick	20 GA 0.9 mm thick
CW 21/2" (CW 64mm)			
CW 31/2" (CW 89mm)			
CW 41/32" (CW 102mm)			
CW 563/64" (CW 152mm)			
07.0.4/01			

(CT 64 mm)	38 mm	
CT 4 1/32" (CT 102 mm)		20 GA 0.9 mm thick
CT 562/64" (CT 152mm)		

Components and accessories

Drywall Screws

Black phosphated self drilling and self tapping screw with countersunk Philips heads for fixing gypsum board to metal framing. Ideal for use with light gauge metal up to 0.7 mm thick.



TB Self-Tapping Screw

Self drilling screws with countersunk Philips heads for fixing gypsum board on metal grids up to steel thickness 0.7 mm and 2.0 mm.



Plastic Plug and Screw

Plastic Screw is to be used together with Plastic Plug for fixing perimeter tracks and studs on solid walls.



Hammer Fixing

Hammer Fixings are light duty fixings which have a special thread lock design that prevents preexpansion during transit installation and provides an option for faster fixing without screwdriver work. Both sizes are suitable for perimeter fixings for both partitions and ceilings. In addition to that, 8 x 45 mm is perfectly suitable with universal bracket in wall claddings. Hammer fixings are faster alternatives to the Plastic plug and Plastic plug screw.



JT 2 1/2" (JT 64 mm) 25 mm JT 4 1/32" 20 GA & (JT 102 mm) 0.9 mm thick 51 mm JT 562/64" (JT 152mm)

Cavity Fixings

Cavity fixing is used for superior loads on partitions and its design enables that the fixtures can be removed and refitted.



(Size 5 x 65mm)

Wedge Anchor

Wedge Anchor is a very easy-toapply accessory which can be used as a alternative solution to Plastic Plug & Screw in terms of fire rated partitions.



(Size 6 x 40mm)

Hartmut

The most advanced cavity dowel for drywall systems with a load capacity of up to 65kg.

(Size 5 x 60mm)

Concrete Screwbolt

Concrete Screwbolt is a non-expansion bolt with undercut technology for fixing into wood, brick, cracked or non-cracked concrete and it is a high-performance bolt that cuts its own thread. It suits perimeter fixings, to some details of Fire-Resistant partition and is specific for Head of Wall connections.

(Size 7.5 x 100mm)