

«له پاش ریز و سلاو»

ئیمه وهك كۆمپانیای (بههمهن غهفور سهعيد لاوه) ئهزمونی زیاتر له سی و چوار (٣٤) سالی کارکردنمان ههیه له جیبهجیکردن و دابین کردنی بایهتی دیکۆرات و عهزل، کۆمپانیاکهمان بریکار و دابهشکاری سههرهکی سهرجم بابهتهکانی مارکهی (KNAUF) له کوردستان و عێراق، کۆمپانیاکهمان ههلهدهستی به جیبهجیکردن (تهنفید)، دابینکردنی سهرجم بابهتهکانی دیکۆرات و عهزل به هینانی مهوادی تایبهتی له سهرخواستی تایبهتی خاوهن کار (تجهیز).

کارهکانمان به شیوازیکی ئهندازهی ، لهلایهن ستافی شارهزا ئهنجام دهدریت به کهترین کات و به باشترین کوالیتی. سهرجهه بابه تهکانمان لهلایهن کۆمپانیای سهرحاوهی متمانه پیکراو و خاوهن کوالیتی بهرز و بروانامهی نیودهوهلهتی هاوردده کهین.

بۆ چهندنین پرۆژهی گهشتی و تایبهتی کارمان کردووه له شاره سلێمانی، بهشیک لهو پرۆژانه:

ئیمه خاوهنی چهندهها براندی جیهانین

- ❖ رهین پرۆفیل
- ❖ تهبهقی کفاف
- ❖ تهبهقی کۆریکس
- ❖ براندی عزلی کفاف + رۆگول Rogul
- ❖ حهکیم بۆردی تورکی
- ❖ بۆیاخی BENEVENTO
- ❖ معدهلی ٣٠ * ٣٠
- ❖ تهختهی ئهززی
- ❖ لهبغی دهروهه - لهبغی ناوهوه
- ❖ کاشی پۆرسهلین
- ❖ تهبهقی بۆتیکس
- ❖ تهبهقی گاردیکس
- ❖ معالهجهی گهچکاری کفاف
- ❖ دهراگی صیانه

دابینکردنی مواد

- شاری جوان
- زانکۆی ئهمرکی
- فیلاکانی گوندی ئهلمانی
- بهشیک له بهرزایهکانی سلێمانی
- گاردن و سیتی
- بهشیک له نهخۆشخانهی شار
- هۆتیل راماده
- هۆتیل رۆتانا
- قهیوان تاوهر
- دادگای سلێمانی
- ماجیدی مۆل
- فاملی مۆل
- سیتی سهنتهر
- سیتی ستار

جیبهجیکردن و دابینکردن

- هۆتیل سلێمانی پالاس
- هۆتیل ئاشتی
- مۆنومیتی ههلهبهجه (پارێزگای ههلهبهجه)
- نهخۆشخانهی ههلهبهجه
- (پارێزگای ههلهبهجه)
- مهکتهبی سیاسی (ی.ن.ک)
- نهوڕۆز سیتی
- شاری دایک
- مزگهوتی گهورهی سلێمانی
- بینای نوێی سیرامیکی رهنگانه
- سیتی سینهما
- بهشیک له فرۆکهخانهی
- نیودهوهلهتی سلێمانی
- فیلاکانی ئهپریل

الرنيـن بروفيل عراق

AL-RANEEN Profile Iraq

معمل الرنين لانتاج المقاطع المعدنية

Drywall System Profile Producer

إنتاج جميع أنواع بروفائل الأسقف و الجدران المستعارة



الرئيس بروفيل عراق

AL-RANEEN Profile Iraq

معمل الرنين لإنتاج المقاطع المعدنية

AL-RANEEN Profile Iraq

نبذة عن الشركة

تأسست شركة "الرين بروفيل عراق" في العام ٢٠١٧ , وبدأت في العام ٢٠١٨ بممارسة أنشطتها الإنتاجية في إنتاج الأسقف والجدران المستعارة (Drywall System) في مدينة بغداد . هذه الشركة هي فرع لشركة هامون الإيرانية وتعمل بترخيص منها , إن تصميم وتصنيع آلات الشركة تم بإستخدام أحدث التقنيات العالمية , و تحت إشراف خبراء مختصين في هذا المجال في معمل الرنين . بغض النظر عن الاختبارات القياسية المتطورة , فإن هذه الشركة تفتخر بحصولها على شهادات OHSAS/800/ ISO 1400 / ISO 9001 / ISO 10002 و هو فخر تحقق بفضل الجهود المتواصلة لجميع موظفين معمل الرنين بروفيل عراق.

الوزن التقريبي سكيب	عدد الافرع في كل سكيب		السماكة	الطول	وصف المنتجات	المنتجات
	كبيرة	صغيرة				
430	256	8	0/6	3	U70	
353	256	8	0/5	3		
500	256	8	0/6	3	U70/S	
412	256	8	0/5	3		
250	120	10	0/6	3	U 100	
206	120	10	0/5	3		
1245	960	20	0/5	3	omega	
995	960	20	0/4	3		
323	432	24	0/5	3	UD 28	
255	432	24	0/4	3		
402	288	12	0/5	3	Cd 60	
314	288	12	0/4	3		
268	1000	20	0/35	3	Corner bead (20*20)	
340	1000	20	0/35	3	Corner bead (25*25)	
	20		0/35	3.6	T 3600 Click (25*25)	
	60		0/3	1.2	T 1200 Click (60*60)	
	60		0/3	0.6	T 600 Click (60*60)	
	40		0/4	3	L 24 Click (60*60)	

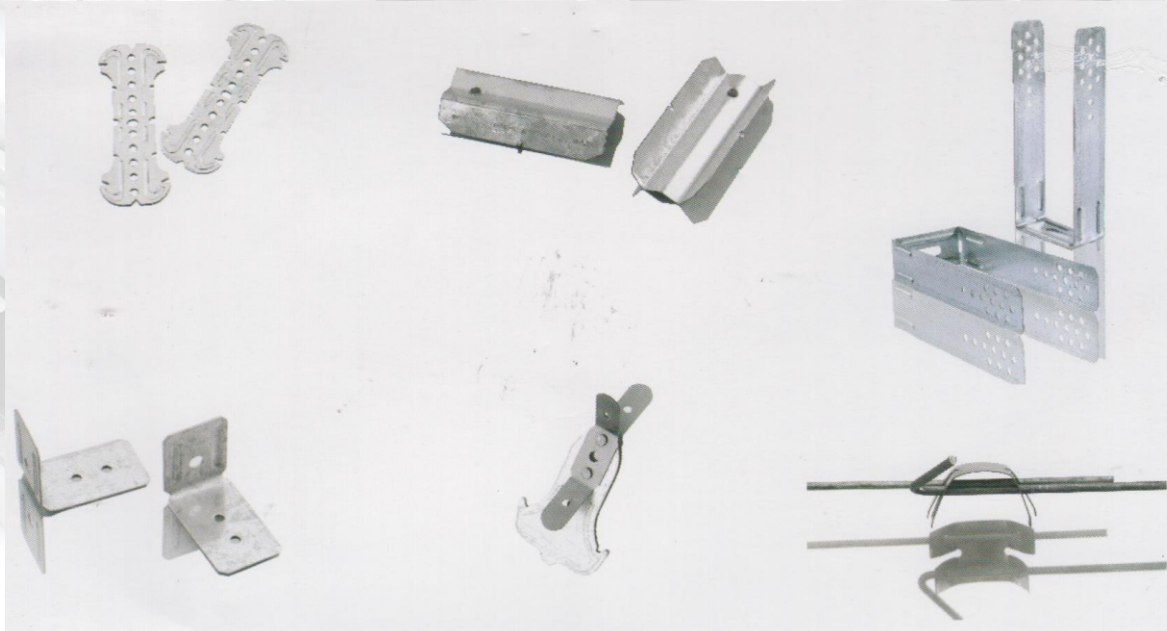
الوزن التقريبي سكيب	عدد الافرع في كل سكيب		السماكة	الطول	وصف المنتجات	المنتجات
	كبيرة	صغيرة				
686	400	20	0/6	3	F47	
568	400	20	0/5	3		
1240	2000	20	0/5	3	L28	
911	2000	20	0/4	3	L26	
402	400	20	0/5	4	Uh36	
480	400	20	0/6	4		
294	400	20	0/5	3	omega	
363	400	20	0/6	3		
372	600	20	0/5	3	UD 28	
441	600	20	0/6	3		
412	240	12	0/6	3	C50	
343	240	12	0/5	3		
412	193	12	0/6	3	C70	
343	192	12	0/5	3		
441	240	12	0/6	3	C70/S	
372	240	12	0/5	3		
363	144	6	0/6	3	C 100	
304	144	6	0/5	3		
412	180	6	0/6	3	C100/S	
383	180	6	0/5	3		
330	240	12	0/6	3	U50	
274	240	12	0/5	3		
460	360	12	0/6	3	U50/S	
382	360	12	0/5	3		

Profile Iraq

Drywall System Profile Producer

AL-RANEEN Profile Iraq

الرنيين
بروفيل عراق



AL-RANEEN

04



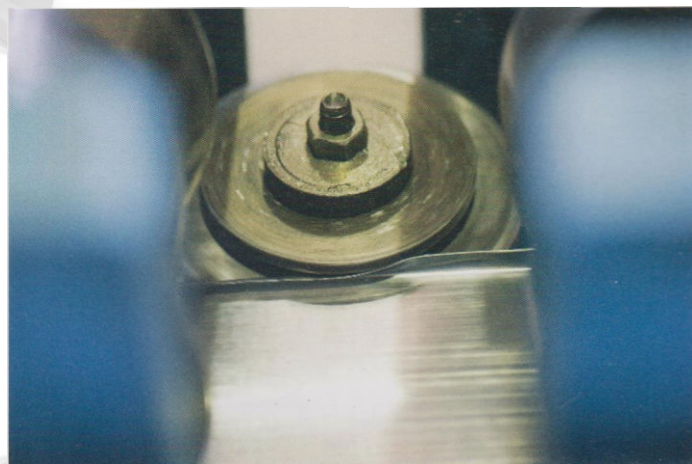
Code: UH36

UH36

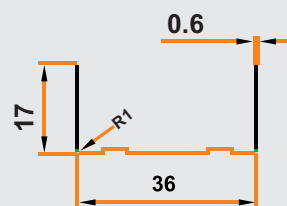
هي من جملة منتجات البروفيلات التطبيقية، و بحسب وصلات الاستقامة فإنها تستخدم أيضا في بعض المعلقات. بشكل عام تلعب هذه المنتجات دورا تكميليا في معظم المشاريع التنفيذية. إن شركة الرنين قد فتحت مجال الاختيار من خلال إنتاجها لهذا الهيكل بسمكتين هما ٠,٥ و ٠,٦ ميليمتر.

UH36

This profile is a member of runner profile range. Due to resistive notches its UH36 is a supplementary profile. This profile, is optional between 0.5 mm and 0.6 mm thick.



Product	Thickness/mm	Length/m	QTY		Weight of bundle
			Packet	Bundle	
F47	0/6	4	20	400	686
F47	0/5	4	20	400	568
UH36	0/6	4	20	400	480
UH36	0/5	4	20	400	402



UH36

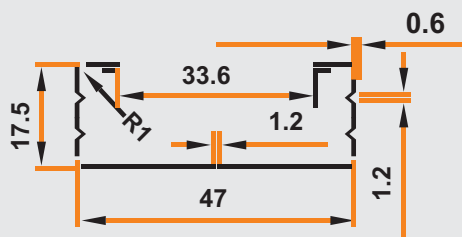
Code: F47

F47

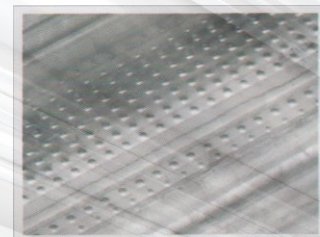
نظرا لطبيعة استخدام هذا المنتج الذي يستخدم غالبا في الاسقف المستعارة وكذلك نظرا لكثرة تنفيذ الاسقف المستعارة في مختلف البنايات و الأماكن , يعتبر بروفيل F47 أحد أكثر البروفيلات استعمالا في أنظمة البناء الجاف (Drywall System) . يتمتع هذا المنتج بجودة عالية جدا بسبب طبيعة تموضع الألواح والمقاطع . ونظرا للحساسية العالية لهذه الهياكل . فإن خبر انا كان لهم نظرة خاصة لهذا المنتج . ومن خلال تأمين اختبارات الضبط , استطعنا طرح منتجاتنا في الأسواق بأعلى مستويات الجودة .

F47

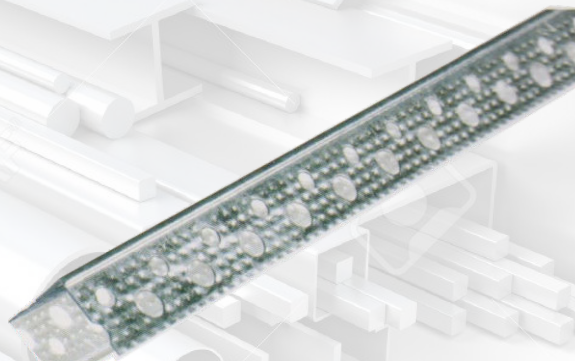
Since profile is often employed for false ceiling and regarding the frequency of false ceiling implementation, F47 is one of the most widely used profile in drywall system. Due to panel placing and clip alignment, Quality is of great importance in the above product and considering the high sensitivity of these structure, our experts have a special look to this product and following control tests, we are now offering a top-quality product to market.



F47



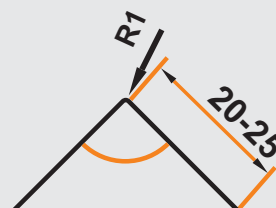
Corner bead



تستخدم بروفيلات الزاوية في معظم الحالات في الجدران الجصية لتعزيزها و تزيد الثقوب الموجودة على البروفيل لصوقته عند التوصيل حيث يمكن حشو وإخفاء الثقوب بالمعجون.

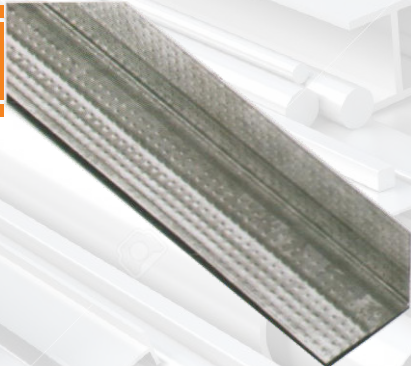
Corner bead profile is used at corners for more strength of the plaster wall. The holes on the profile are for more adhesion of the profile at the time of connection that is filled and hided by primer.

Product	Thickness/mm	Length/m	QTY		Weight of bundle
			Packet	Bundle	
L28	0/5	3	20	2000	1240
L26	0/4	3	20	2000	911
L26	0/35	3	20	2000	804
Corner bead (20x20)	0/35	3	20	1000	268
Corner bead (25x25)	0/35	3	20	1000	340



Corner bead

Code
L28

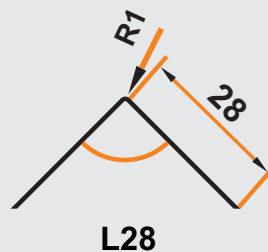


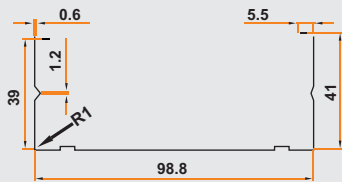
L28

من خلال تركيب هذا المنتج في سقف ما . فإنه يحدد إحداثيات الهياكل الأخرى التي ستركب. نظرا لوجود رفوف الاستقامة والأسنان الإبرية على سطح هذا البروفيل. مما يجعل هذا البروفيل متميزا من عدة نواحي، وفي الدول المجاورة يستخدم عوضا عن البروفيل.

L28

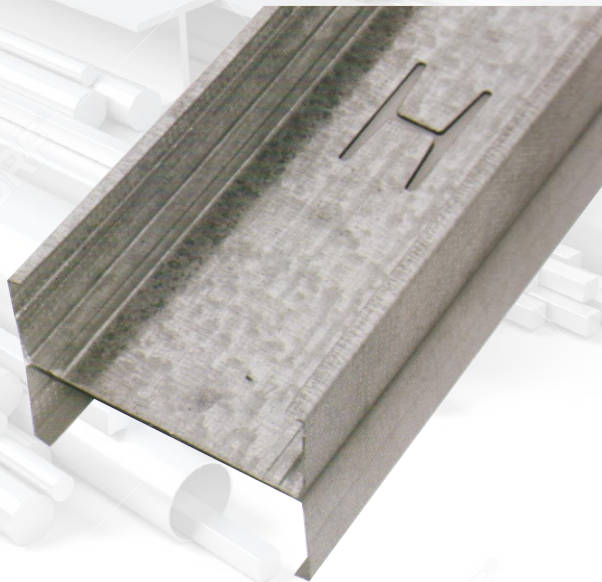
This profile, according to its type of structure, coordinates other profiles, alignment. Hence it has undergone a very sensitive production process. Special sensors guarantee the products full automatic quality tests. Then profiles are counted by machine and sent 20-piece packs to packing unit where they are prepared for loading.





C100

Code
C100



Stud (C Channel)

This RANEEN profile's product ,consists of three seprate section with a thickness of 0.6mm and depending on the type of walls , an H-Shaped passage is embedded on the profile by default which can be relocated by software of the respective machine

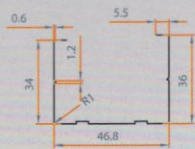
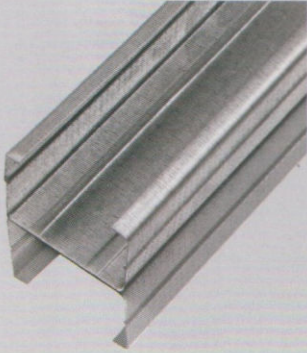
RANEENprofile provides its customers with the oppor tunity to configure and customize the location H-Shaped punch and the profile length as they desire.

Stud (C Channel)

هذا المنتج يشمل ثلاثة أجزاء منفصلة بسماكة ٠,٦ ميليمتر , و نظرا لنوع الجدار المصمم من قبل المصمم , سيتم استخدام واحد من ثلاث خيارات C70,C50,C100 , بما أنه داخل الجدران تمر مجموعة من المرافق و بعض مستلزمات البناء , فقد تم تزويد هذه البروفيلات بمعايير على شكل حرف H بشكل مشبق , و يقوم برنامج الآلة بإعطاء المشغل إمكانية تغيير لإحداثيات تلك المعايير. إن شركة الرنين بروفيل تقدم للعملاء إمكانية تعيين إحداثيات المعايير H و طول البروفيل بحسب الرغبة.

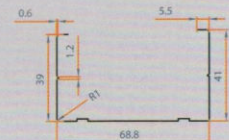
Product	Thickness/mm	Length/m	QTY		Weight of bundle
			Packet	Bundle	
C50	0/6	3	12	240	412
C70	0/6	3	12	192	412
C100	0/6	3	6	144	363

Code: C50

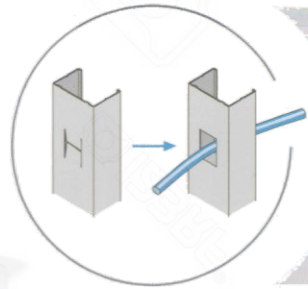
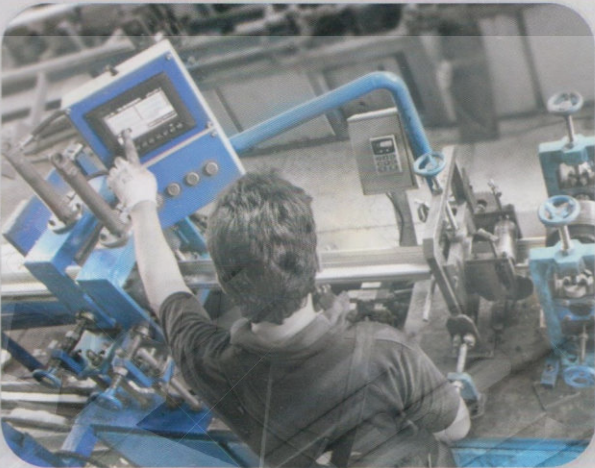


C50

Code: C70



C70



تستخدم البروفيلات لفصل الغرف وللأداء
الأفضل يمكن استخدام الصوف الصخري بين
جدرانها حيث يسبب العمل نفسه إيجاد عازل
للصوت و الحرارة في المباني.

These profiles are used for separating the
rooms; for better performance the rock wool
is used between the ledges that causes the
sound and thermal insulation in the building.

AL-RANEEN Profile Iraq

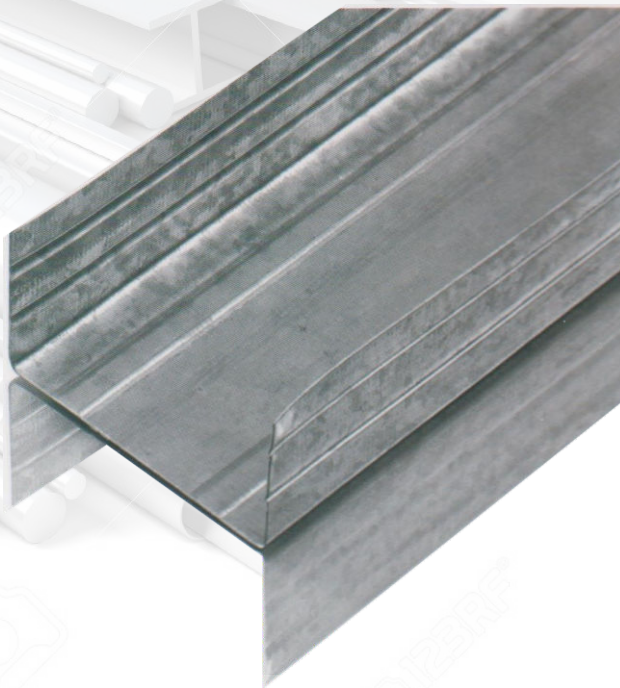


AL-RANEEN Profile Iraq



U100

Code
U100



Runner (U Channel)

Runner profile work as a supplement for stud profile, which are available in 3 models including U50 , U70 and U100.

Selecting the appropriate model depends on wall thickness and project design.

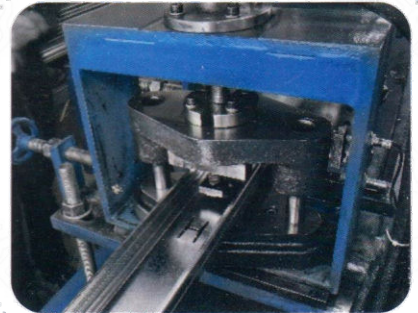
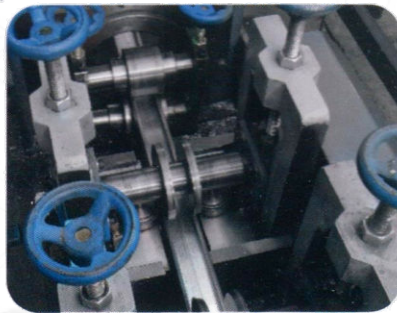
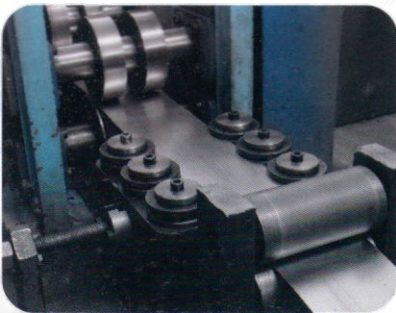
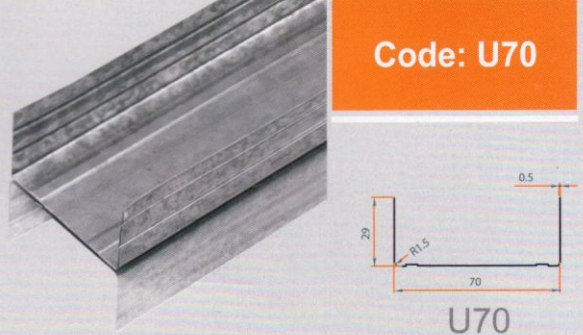
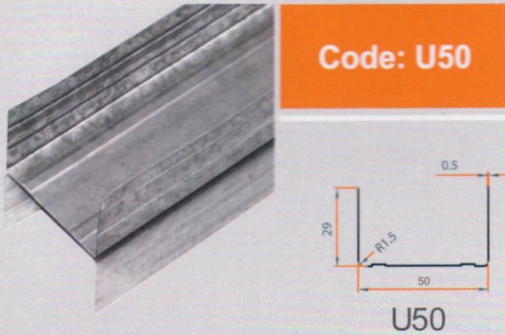
Runners are mostly used horizontally within which stud profiles are applied vertically.

ALRANEEN profiles has designed notches on the wings of this structure for more rigidity.

Runner (U Channel)

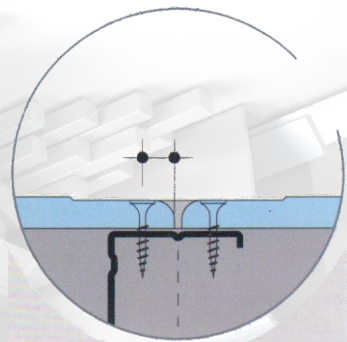
البروفيلات التطبيقية هي مكملة للبروفيلات الأساسية , ولها ثلاث أنماط U50,U70,U100 و بحسب سماكة الجدار و تصميم المصمم , يستخدم أحد أنواع هذه الهياكل في الجدران. استخدام البروفيلات التطبيقية يكون غالبا بالشكل الأفقي , و تتوضع بروفيلات C Channel بداخلها بشكل عمودي . و من أجل زيادة قوة و متانة هذه المجموعة من البروفيلات , قامت شركة الرزين بروفيل بتصميم و تركيب الرأس على أجنحة هذا الهيكل.

Product	Thickness/mm	Length/m	QTY		Weight of bundle
			Packet	Bundle	
U50	0/5	4	12	240	274
U70	0/5	4	8	256	353
U100	0/5	4	10	120	206



توفر منتجات “ الرنين بروفيل ” إمكانية للمهندسين المشرفين أن ينتخبوا سماكة و طول البروفيلات وفق ما يرونه صالحا.

Raneen profile made this choice for the supervisor engineers possible that optionally choose the thickness and the length of the profile.



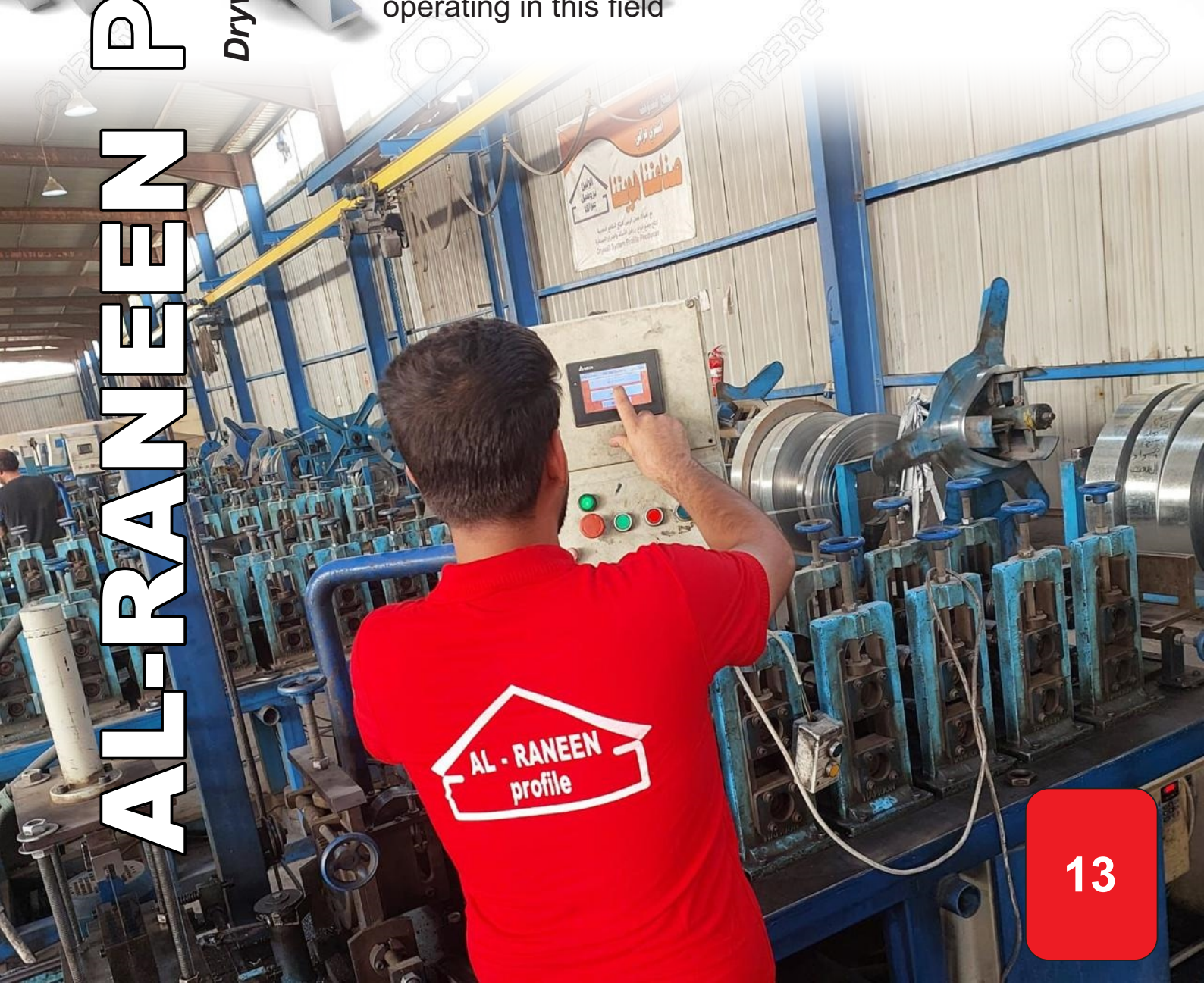
AL-RANEEN Profile Iraq

Drywall System Profile Producer

إن شركة الرنين بروفيل , و من خلال استخدام أفضل المواد الأولية , تسعى للحفاظ على جودة منتجاتها في المستويات القياسية دوماً . و نظراً لحاجة هذه الشركة لألواح الجبسية المختلفة السمكات , فإن هذه الشركة تتعاون مع العديد من الشركات العاملة في هذا المجال .

Raneen profile company with use of best materials, keeps at standard level the quality of their products always.

Our company due to use of the galvanized sheets in different thicknesses, works with many companies operating in this field



إن شركة الرنين بروفيل , و من خلال استخدامها لأحدث السيور الناقلية المصنوعة من الصفائح, استطاعت تقديم مساعدة فعالة من ناحية سرعة إنتاج المنتجات. و على هذا الاساس , تمكنت من تقليل الفترة الزمنية الفاصلة بين طلب العميل و تحميل البضاعة الى الحد الزمني الأدنى.

Raneen profile company utilizes the most advanced line of cutting sheet, has been able to increase the production speed.

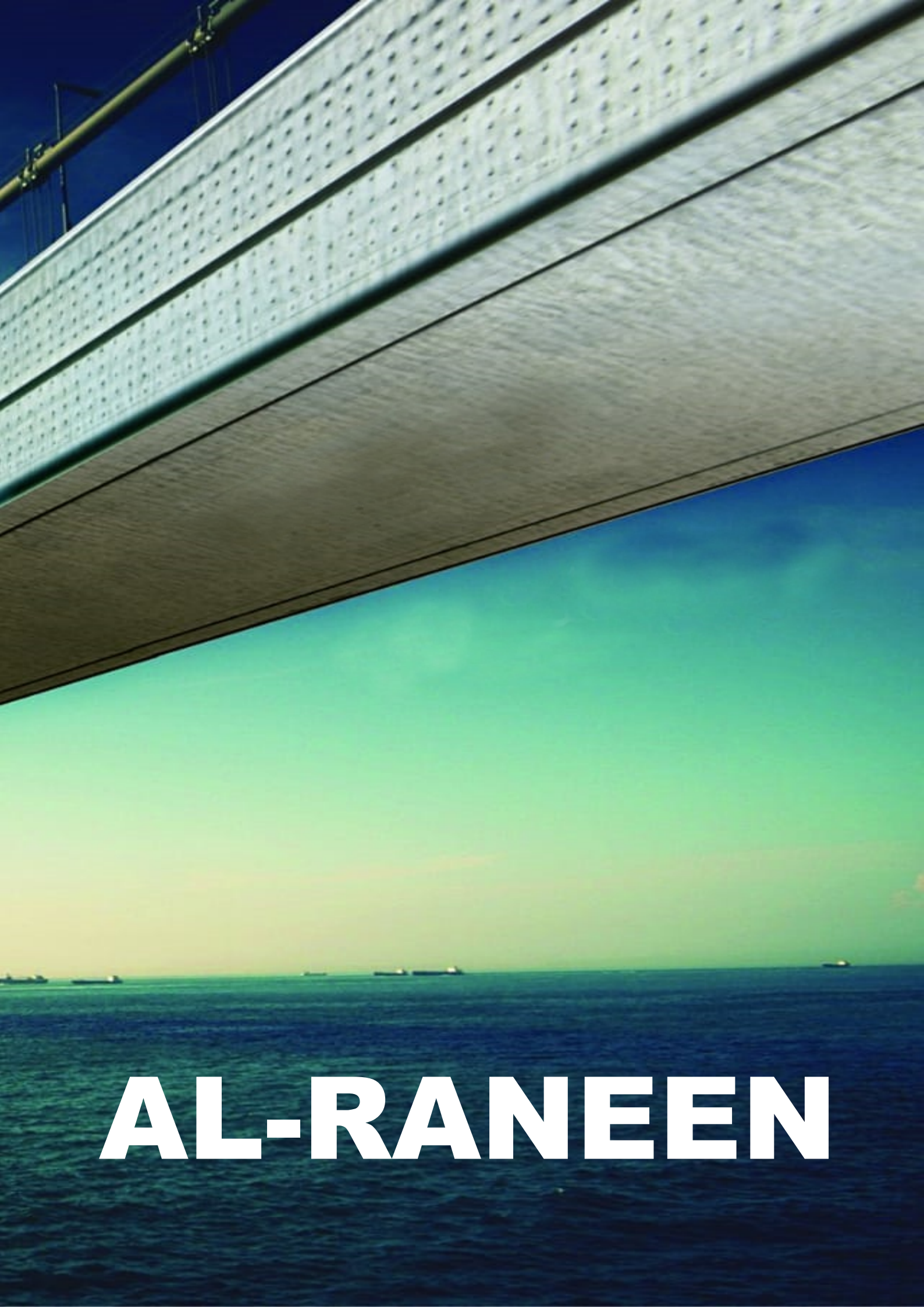
Accordingly, we minimized the interval between ordering customer to the production loading.



الرئيس
بروفيل عراق

Profile Iraq

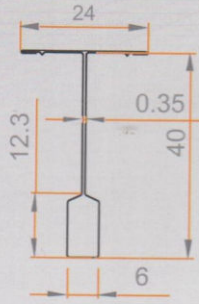
Drywall System Profile Producer



AL-RANEEN

AL-RANEEN Profile Iraq

الرنين
بروفيل عراق



CLICK(T3600)

Code:CLICK

CLICK (T Channel)

This profile has a wide range of application including commercial and administration, is easy to install and very handy in terms of equipment access. This profile offered in 4 types that complement each other.

CLICK T3600 (Main T)

The main phase of ceiling implementation in this system and components are coordinated based on the order of the punches in the structure , therefor the punches in this profile are vert accurate.

Alraneen profiles designed a rollforming machine which is able to perform punching operation consecutively and with tolerance precision of ± 0.01

CLICK (T Channel)

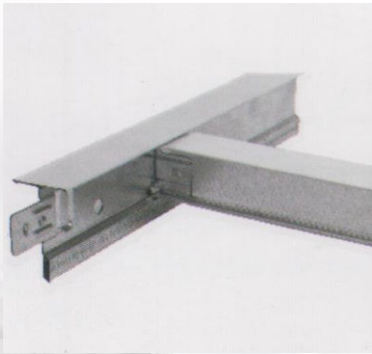
أحد أكثر أنظمة البناء الجاف استخداما (Drywall building) هناك سهولة كبيرة في التركيب بسبب سهولة الوصول الى المرافق , مما جعله أكثر الأنظمة شعبية. أكثر استخدامات هذا النظام هو في التطبيقات التجارية و الإدارية. يتكون من أربعة أجزاء مختلفة و كل منها يكمل الآخر.

CLICK T3600 (Main T)

المكان الرئيسي لتطبيق هذا النوع من الأنظمة هو الأسقف , حيث تحصل الأجزاء الأخرى على إحداثيات تموضعها بواسطة ترتيب الثقوب في هذا البروفيل , و لذلك تكون دقة ثقوب هذا الهيكل مرتفعة جدا. لقد قامت شركة الرنين بروفيل بتصميم جهاز ثقب يقوم بإجراء ثقوب متتالية أثناء إنتاج البروفيل , و بمعامل دقة يبلغ ٠,٠١ ملم , يبلغ طول هذا البروفيل ٣٦٠٠ ميليمتر و عدد ثقوبه ٢٤ ثقب , سماكة الألواح المجلفنة المستخدمة في إنتاجه هي ٠,٣ ميليمتر و مغلف بغلاف صفيح مطلي سماكته ٠,٢٥ ميليمتر



Product	Thickness/mm	Length/m	QTY
CLICK T3600	0/35	3/6	20



و أما في بروفيلات "كليك" فقد تتغير السماكة من ٠/٣ الى ٠/٢٥ حيث يخفض هذا الموضوع تكاليف الانشاء و البناء.

In click profiles, the thickness can change from 0/3 to 0/25 that causes the less cost of construction.

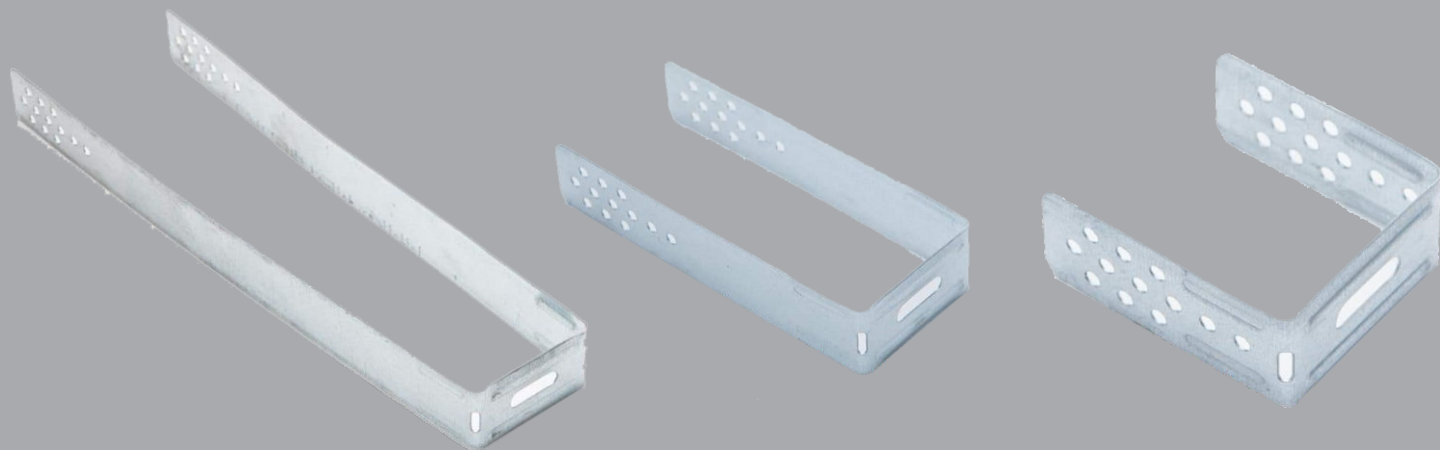
AL-RANEEN Profile Iraq

الرينين
بروفيل عراق

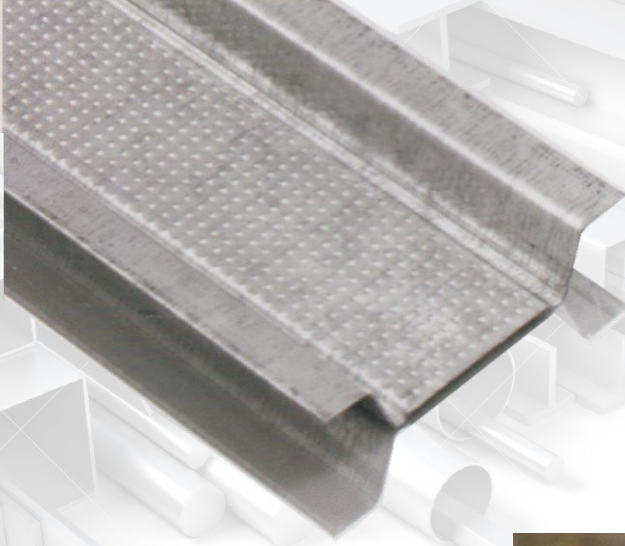


AL-RANEEN Profile Iraq

الرنين
بروفيل عراق



Code:Omega

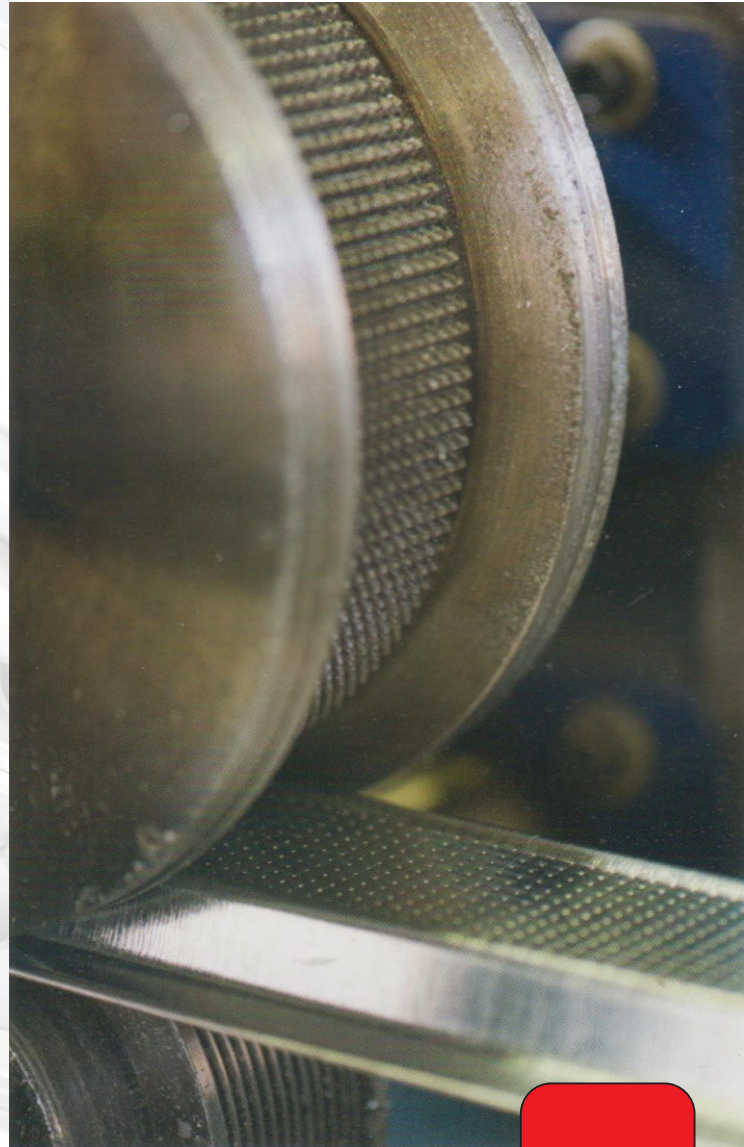


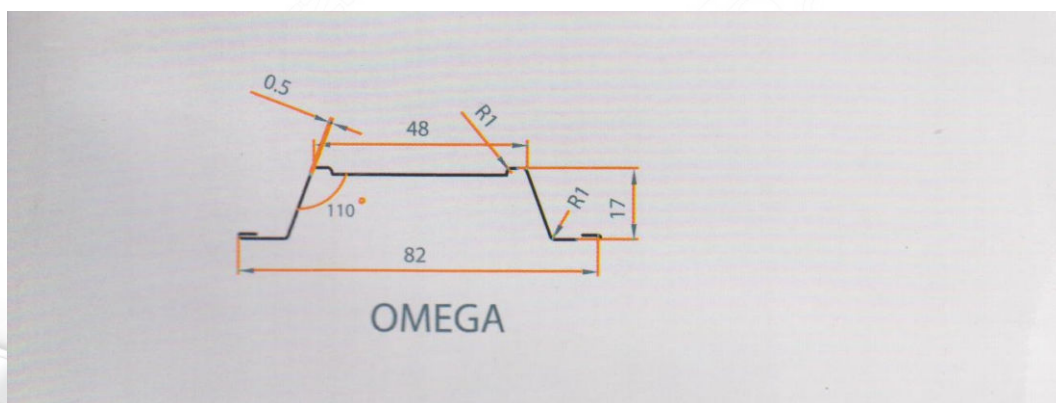
OMEGA

له الكثير من الاستخدامات في البنى التحتية للأسقف و الجدران المستعارة . نوع تصميم هذا الهيكل خاص بشركة الرنين بروفيل و خلال تصميمه تمت مراعاة جميع الجوانب الفنية بشكل تام من ناحية البنية , إن وجود أسنان إبرية على سطحه و على الحواف المقلوبة , يسمح للمنفذ بتحقيق الاستقامة المطلوبة خلال تنفيذ سقف ما او جدار ما

OMEGA

This profile is highly-functional for drywall and false ceiling infrastructure and it is exclusively designed by Raneen profile assuring that the design complies with all technical aspects and frameworks. Structurally due to elongated treads on the surface and return lips, the product holds adequate resistance in order to give a safe performance as a wall or ceiling.

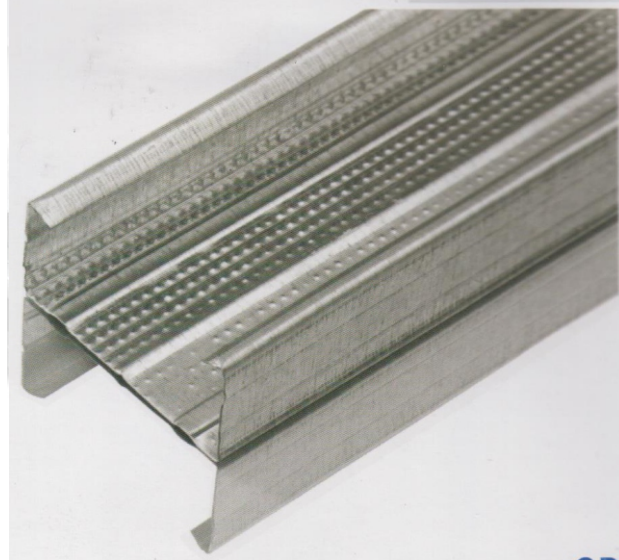
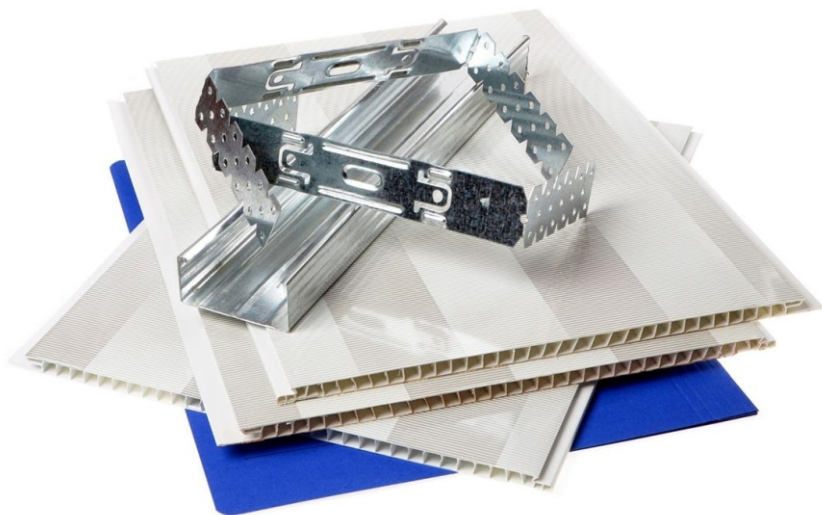




Product	Thickness/mm	Length/m	QTY		Weight of bundle
			Packet	Bundle	
OMEGA	0/5	3	20	960	1245
OMEGA	0/4	3	20	960	995

AL-RANEEN Profile Iraq

الرنين
بروفيل عراق



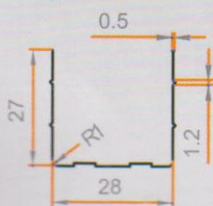
Code:U28

U28

تسمى أيضا **UD28** هذا البروفيل مكمل البروفيل **CD60** و يستخدم بمثابة أحد مفصلاته في السقف المستعار . قياس فتحة الداخلية يعد هاما جدا من اجل تموضع **CD60**

U28

U28 or U D25 works Cd60supplement and fastener. Since Cd60 is aligned in U D25 , the internal span dimension is of great importance here.



U28

Product	Thickness/mm	Length/m	QTY		Weight of bundle
			Packet	Bundle	
U28	0/5	3	24	432	323
U28	0/4	3	24	432	255

AL-RANEEN Profile Iraq

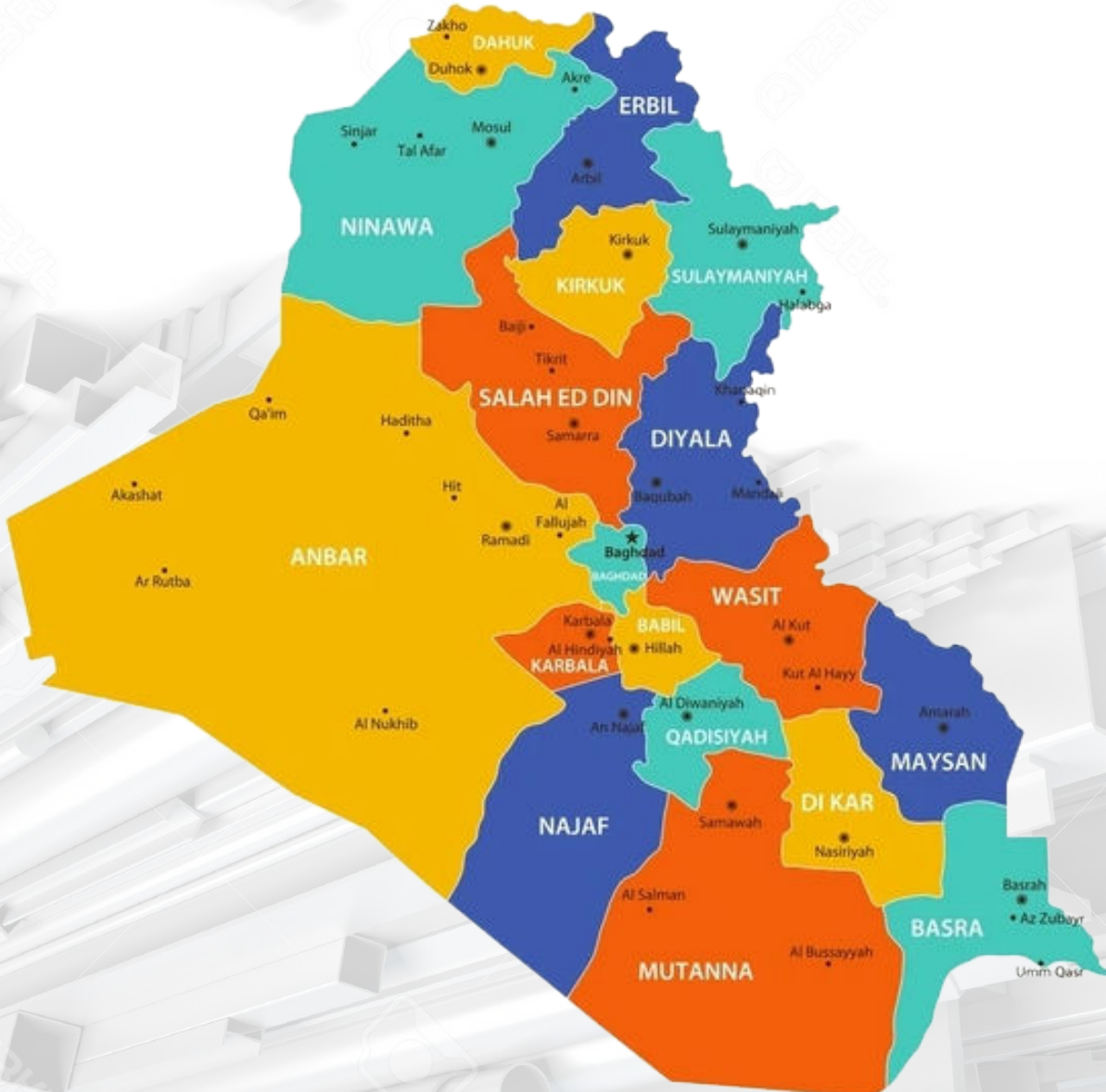
الرنين
بروفيل عراق

SALES :

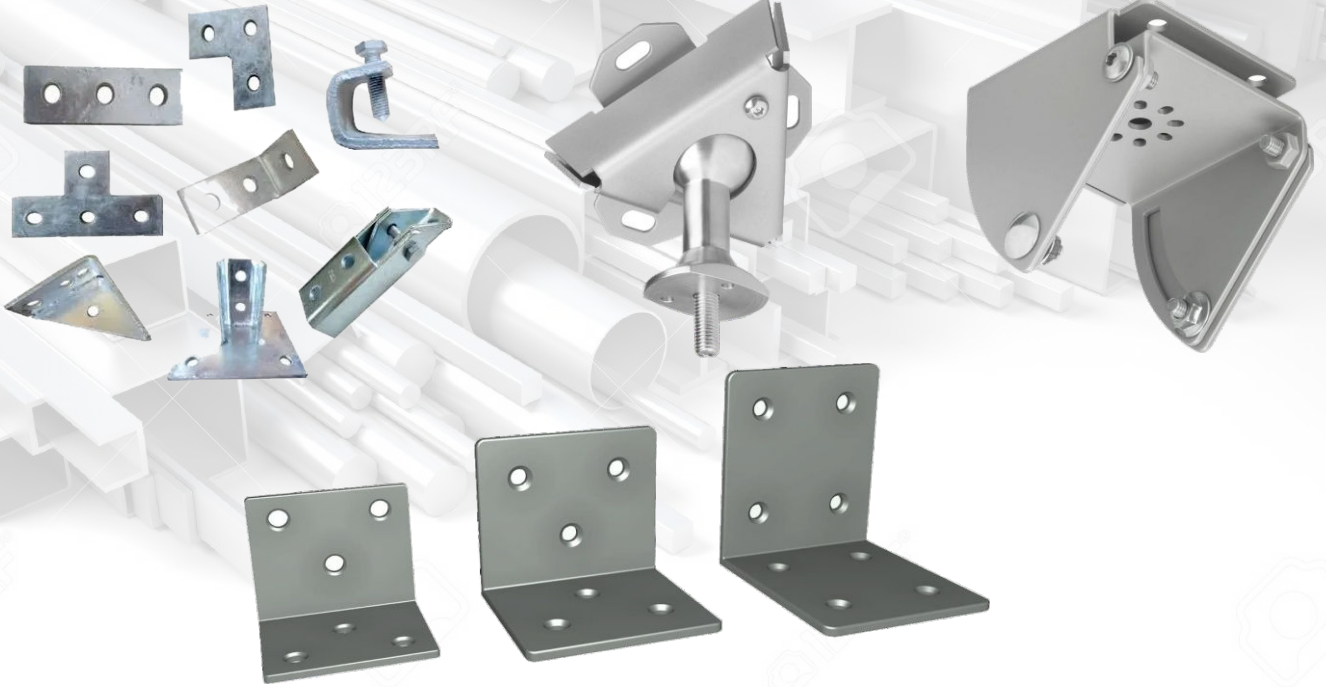
One of the most important units in Alraneen profiles is the sales and marketing unit. Respect and satisfaction for customers is our ultimate goal which has enabled us to practice the international standards of administration in order to preserve our strength in the field of customer service. To meet this goal Raneen profile has received an international certificate (ISO 10002) resulting in an administration system of customers complaints as well as observation and evaluation of customer satisfaction.

وحدة المبيعات

تعد من أهم أقسام الشركة, حيث انها من خلال إبداء الاحترام للعملاء خلال جميع المراحل, فقد حققنا خطوة في مسار تحقيق رضا العميل قدر الإمكان. و في سبيل تحقق الأهداف السامية للشركة, فإن هذا القسم يفتخر بتطبيق المعايير الدولية في هذا المجال لقياس رضا العملاء . و في هذا السياق فإن شركة الرنين بروفيل من خلال حصولها على شهادة آيزو استطاعت إيجاد إدارة عملية لشكاوي ISO 10002 الدولية العملاء و كذلك رصد و قياس مدى رضا العملاء.







Bracket connector as one of the high-applied connectors in dry construction that is used in ceiling at different highness also is used in wall for making distance between main wall and false wall.

يعتبر وصل القوس احد الوصلات الكثيرة الاستخدام في
المباني الجافة حيث يستخدم في الارتفاع المختلفة كما
يستخدم في الجدران المستعارة

مراقبة الجودة:

إن مراقبة جودة المنتجات تعد ركن هام خلال جميع مراحل الإنتاج الحالي. إن برنامج الرقابة المتبع, يقوم برصد و مراقبة جميع مواصفات المنتج منذ لحظة دخول المواد الأولية و حتى لحظة خروج المنتج من المصنع, و ذلك يتم باستخدام أفضل التقنيات الحديثة , و في النهاية يتم تقديم منتج عالي الجودة للعملاء.

QC :

Quality product control as the most important, is current in all steps the production. This monitoring program with the use of modern technology, all the specifications gets controlled, from the moment of entry of raw materials until the moment of exit the product. Finally the good product, to be offered the customer.





AL-Raneen Co.

For The Production Of Metal Sections

الرزين
بروفيل عراق

معمل الرزين
لإنتاج المقاطع المعدنية

العدد	360	التاريخ	11 / 5 / 2024	اسم المادة	سمك	طول	عدد	ملاحظات
1				126	0.4	3m	2000	
2				cd60	0.4	3m		
3				braket	0.8			
4				20cm	0.8			
5				36cm				
6				46cm				
7				56cm				
8								
9								

هاتف الادارة : 11211215
هاتف المعمل : 3817404

مصنعة الكارتن

ham

القسم الفني:

إن بروفايلات الأسقف و الجدران المستعارة من إنتاج معمل الرزين بروفيل ... يتم أنتاجها بطريقة الدحرجة الباردة. و بواسطة آلات رولفورمينغ. هذه الآلات تعمل بشكل مرحلي, و في كل مرحلة تقوم بأجراء العمليات المطلوبة على ألواح الصلب بشكل دقيق و وفق المخطط المصمم لذلك (Floor Pattern) و هذه الألواح قد تم فحصها من جميع النواحي. في النهاية , بحسن عدد المحطات التي تؤخذ بعين الاعتبار للمقاطع المختلفة, يتم إنتاج البروفايلات المعدنية , و بعد عبور تلك البروفايلات لمراحل اختبارات التحكم , تدخل إلى قسم التغليف , و في النهاية تذهب الى مستودع التحميل.

Technical:

Dry wall and false ceiling profile in Raneen profile system are manufactured by using cold-forming method.

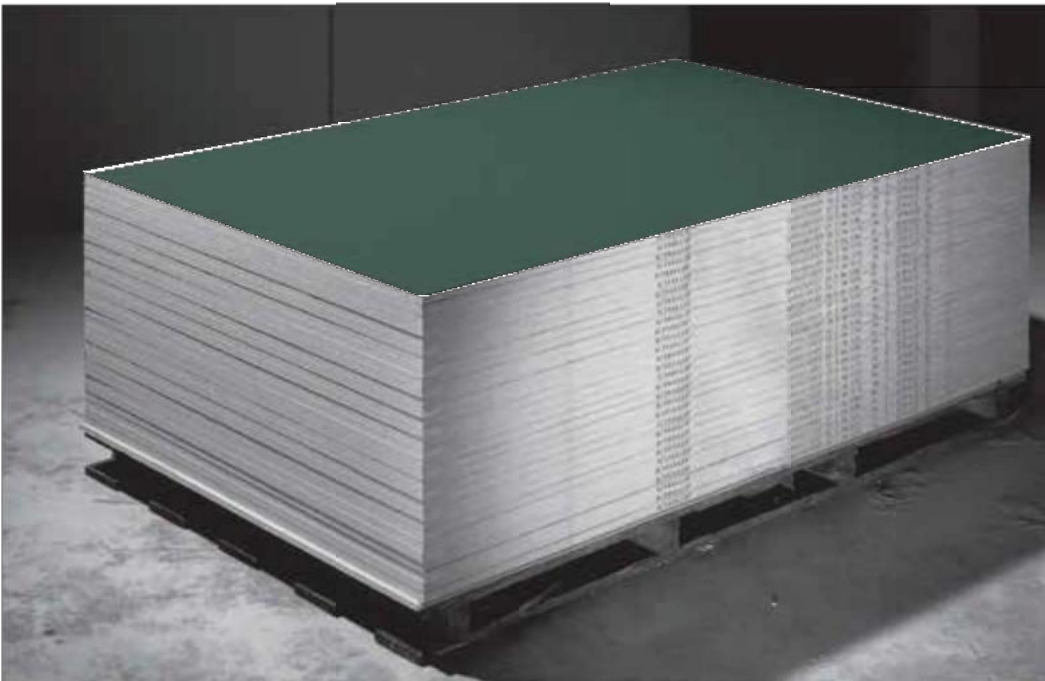
The process of rollforming machinery employs a series of matching profile rolls based on drawing (flower pattern), driven in multiple stands. it involves passing flat metal sheets, pre_quality controlled, progressively forming the metal to achieve section and after passing control tests, sent to packaging unit and finally send to warehouse outlet.

AL-RANEEN

Profile Iraq

الرئيس
بروفيل عراق





Knauf Moisture Resistant Gypsum Boards (MR - H2)

Knauf Moisture Resistant Gypsum Boards (MR - H2) are gypsum wallboards manufactured specifically for use in areas exposed to moisture .

Knauf Moisture Resistant Gypsum Boards (MR - H2) EN-BS



Product Description

Knauf Moisture Resistant Gypsum Boards (MR - H2) are gypsum wallboards manufactured specifically for use in areas exposed to moisture and humidity.

Fields of Application

Knauf Moisture Resistant Gypsum Boards (MR - H2) are standard performance gypsum boards used as the cladding component of drywall constructions in humid areas such as:

- Partition or Ceilings of Kitchens/Bathrooms
- Wall Linings/Furrings in Kitchens/Bathrooms
- Partitions with tiled finish requirements
- Any internal area which is exposed to humidity

Properties

- Lightweight constructions
- Easy, fast and dry application
- Good sound insulation performance
- Hydrophobic boards impregnated against absorption of moisture
- A material that breathes and balances room climate and humidity levels
- Environmental friendly
- Limitless design options

Technical Data

Board Dimensions:

Thickness : 12.5 mm
Width : 1200 mm
Length : 2400 or 3000 mm*

* Special sizes are available upon request.

(Boards Weights (Average values):

12.5 mm approx. 9.2 kg / m²

Minimum density (0.1 x 10³ kg/m): 0.6

Density: ≤ 800 kg /m²

Surface Water Absorption: EN520

≤ 180 g/m

Total Water Absorption: EN520

≤ 10 %

Edge Detail:

Square Edge (SE)



Taper Edge (TE)



Asbestos content: None

Appearance:

Green Paper Liner

Board Type:

EN520 - Type H2

Reaction to Fire.

A2-s1,d0 (B) According to DIN EN 13501-1

Note:

Please contact our sales department for inquiries about storage and packing.

Knauf Head Office



Knauf Qatar Branch

Knauf Manufacturing Plant

P.O.Box 50006
Ras Al Khaimah



The information provided in this leaflet is only intended to give guidance in selecting and using Knauf products. While we make every effort to ensure its accuracy, neither Knauf LLC and its branches nor any of its employees or affiliates warrant or assume any legal liability or responsibility for the completeness or usefulness of any failure in installation or constructing any structure installation or building or caused by using this leaflet. Readers are advised to independently verify this information prior to rely on it. In particular, readers must obtain appropriate independent advice on the use of products in specific structures, installations or buildings to ensure compliance with all regulations, including health and safety regulations. Knauf reserves the right to amend technical specification without notice.

The constructional and structural properties, and characteristic building physics Knauf system can solely be ensured with the exclusive use Knauf system components, or other product expressly recommended by Knauf.



Guardex®

Sheathing board for ETICS and ventilated facade systems

Product Description

Guardex® is a non-combustible, lightweight, environment-friendly, mold-water-humidity and weather resistant sheathing board by means of special gypsum core and fiber glass fleece on both sides.

Storage

Boards should be stored on pallets in a dry environment. If the boards are stored inside, max. 6 pallets on each other; outside max. 5 pallets on each other. Gypsum boards should be stored so as to prevent damage to the front faces of each boards during packaging. If the boards are stored outside, they must be covered with nylon and etc.

Standard

TS EN 15283 - 1 + A1 GM-FH1R

Fields of Application

Used in drywall systems as a sheathing board with thermal insulation boards on top of it and as a windshield for ventilated facades.

- Exterior thermal walls as a sheathing board
- Exterior walls as a windshield for ventilated facades

Properties

- Non-combustible A1
- Light weight
- Dimensional stability during climate condition change
- Humidity resistance
- Mold resistance
- Breathable (water vapour permeability)
- Easy installation
- Time saving

Sheating board for ETICS and ventilated facade systems

Technical Data

Description	Unit	12,5 mm	15 mm	Standard
Board type	-	GM-FH1R	GM-FH1R	TS EN 15283-1+A1
Reaction to fire	class	A1	A1	TS EN 13501-1
Weight	kg/m ²	11 - 12	13,5 - 14	-
Long edges	-	Tapered edges 		-
Front edges	-	Cut edges 		-
Mould resistance	score	10*	10*	ASTM D 3273
Width dimensional tolerance	mm	+0 / -4	+0 / -4	TS EN 15283-1+A1
Length dimensional tolerance	mm	+0 / -5	+0 / -5	TS EN 15283-1+A1
Thickness dimensional tolerance	mm	+0,7 / -0,7	+0,7 / -0,7	TS EN 15283-1+A1
Angularity dimensional tolerance (for 1m board width)	mm	≤ 2,5	≤ 2,5	TS EN 15283-1+A1
Bending radius (dry bending)	mm	r ≥ 4000	r ≥ 4000	-
Shrinkage and expansion per 1 Kelvin change of temperature	mm / m	0,013 - 0,02	0,013 - 0,02	TS EN 520+A1
Shrinkage and expansion per 1% change of relative air humidity	mm / m	0,005 - 0,008	0,005 - 0,008	-
Thermal conductivity λ	W/(m·K)	0,25	0,25	TS EN 12664
Water vapour resistance factor (dry)	μ	10	10	EN 12524
Water vapour resistance factor (wet)	μ	4	4	EN 12524
Total water absorption (Type H1)	%	≤ 3	≤ 3	TS EN 15283-1+A1
Flexural breaking load longitudinal direction	N	≥ 725	≥ 870	TS EN 15283-1+A1
Flexural breaking load transverse direction	N	≥ 300	≥ 360	TS EN 15283-1+A1

* Highest score, no mold growth.

Product Range

Description	Width (mm)	Length (mm)	Weight (kg/m ²)	Packaging Unit (pcs./pallet)	Material Number
Guardex® 12,5 mm	1200	2400	11,5	50	448753
	1200	2500	11,5	50	431550
Guardex® 15 mm	1200	2400	13,5 - 14	30	458572
	1200	2500	13,5 - 14	30	458571

Sheating board for ETICS and ventilated facade systems

Safety Instructions

- Wash hands with plenty of water after handling.
- Use protective gloves / protective clothing / eye protection / face protection.
- In case of contact with eyes: Rinse your eyes cautiously with water for several minutes. If there is a lens remove it and continue to rinse.
- If eye irritation persists: Get medical advice / attention.

System Performance Values

Performance values as sound insulation, fire resistance etc. may differ acc. to the drywall system to be applied. Please check the performance values of the drywall systems;

[Knauf Technical Website](#)
[Document Center](#)

Guardex® Facade Systems

Guardex® Exterior Drywall System with ETICS

Guardex® Exterior Drywall with ETICS is constructed with substructure fixed on the load bearing construction and mineral wool between the studs for providing the thermal and sound insulation requirements. The substructure is cladded with gypsum board from inside and with Guardex® from outside. Polystyrene (EPS etc) or mineral wool are applied on the Guardex® in order to improve thermal insulation requirements of the system.

Guardex® Exterior Drywall Lining System with ETICS

Guardex® Exterior Drywall Lining with ETICS is constructed by fixing the C Studs or UA Profiles on the existing load bearing structure and if required on existing walls by means of L Angles; mineral wool between the studs for providing the thermal and sound insulation requirements. Polystyrene (EPS etc.) or mineral wool are applied on the Guardex® in order to improve thermal insulation requirements of the system.

Guardex® Ventilated Facade System

Guardex® Ventilated Facade System is constructed with metal substructure fixed on the load bearing construction of the building and mineral wool between the studs for providing the thermal and sound insulation requirements. The substructure is cladded with gypsum board from inside and with Guardex® from outside which stays behind the exterior cladding. This system is very popular for rehabilitation of the buildings because of fast, easy and effective application.

Application

Application should be done acc. to the applicable standards and acc. to the Knauf Technical Brochures of the respective drywall system.

You may also download;

[Guardex® System](#)
[Brochure Guardex®](#)
[Ventilated System Guardex®](#)
[Application Phases](#)



Cleaneo® Akustik Alçıpan®

Ürün Teknik Föyü

12/2023

Cleaneo® Akustik Alçıpan®

Perforasyonlu akustik Alçıpan®

Ürün Tanımı

Yüksek değerlerde ses yutumu özelliğinin yanı sıra, zeolit katkısı sayesinde ortamdaki kötü kokuları temizleyen tam plaka akustik Alçıpan® çeşididir. Arka yüzü siyah veya beyaz akustik şilte kaplıdır, talebe göre şiltesiz olarak üretilir.

Depolama

Paletler üzerinde ve su ile temas etmeyecek şekilde kuru bir ortamda, düz bir yüz üzerinde yatay şekilde stoklanmalıdır. İç mekanda en fazla 6, dış mekanda ise 5 palet üst üste stoklanmalıdır. Paletlemede her iki Alçıpan®, ön yüzleri korunacak şekilde yerleştirilmelidir. Alçıpan® çeşitleri açık havada stoklanacak ise, paletlerin üzeri naylon vb. ile kapatılmalıdır.

Referans Standart

TS EN 14190

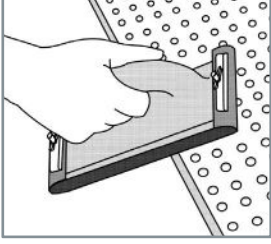
Özellikleri

- Yüksek değerlerde ses yutumu
- Koku giderme özelliği
- Estetik tasarım
- Eğrisel uygulama
- Temiz ve kolay montaj

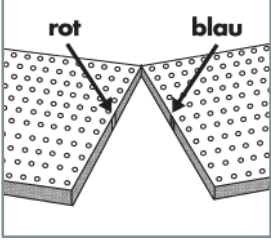
Kullanım Alanları

- Asma tavan
- Duvar giydirme

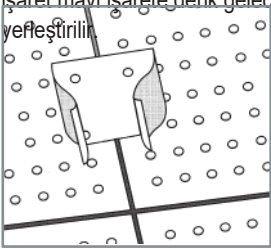
Uygulama



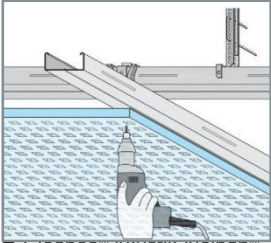
■ Kenarlar gerekli görülürse zımpara yardımı ile düzeltilir. Tercihen plakanın kenarları tozdan arındırılır ve Knauf Tiefengrund ile astarlanır.



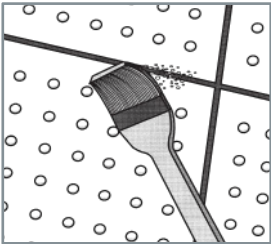
■ Dağınık Delikli Cleaneo® Akustik Alçıpan® için kesişen kenarlarda kırmızı ve mavi işaretler vardır. Uygulama sırasında plakalar, kırmızı işaret mavi işarete denk gelecek şekilde (alın tarafında ve uzunlamasına) yerleştirilir.



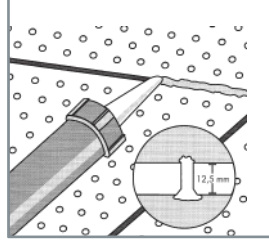
■ Cleaneo® Akustik Alçıpan® uygulanırken sürekli perfore plakaların bazılarında delik hizalama aleti kullanılır. Delikler her iki yönde aynı hizaya getirilip delik düzeni göz veya lazer ile kontrol edilir.



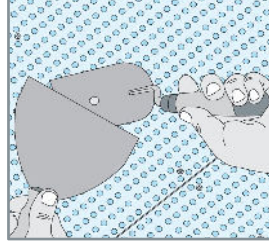
■ Cleaneo® Akustik Alçıpan®, tali taşıyıcı Tavan C Profillerinin dikine, uzun ve kısa kenarlarda şaşırtma yapılmadan döşenir. Vidalamaya Alçıpan®'ın ortasından ve köşesinden başlanır. Cleaneo® Akustik Alçıpan®'ın montajında akustik SN vidalar kullanılmalıdır.



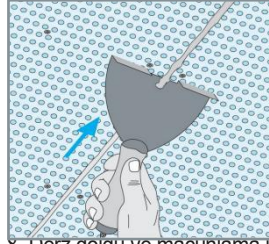
■ Plakaları yerleştirdikten sonra derzlerde oluşan toz, kuru bir fırça ile temizlenir. Eğer gerekli ise Knauf Tiefengrund ile yüzey tekrar astarlanır. (Kurulum sırasında oluşan tozlanmayı önlemeye karşı)
Not: Plakaların su ile temas ettirilmesi tozu yok etmekten çok, pahların çatlama riskini artırır.



6. Plaka ek yerleri derz dolgu tabancası kullanılarak Knauf Uniflott® derz dolgusu ile doldurulur. Knauf Uniflott®, sürekli perforasyona sahip küt kenarlı plakaların ek yerlerine, plastik başlı el tabancası yardımıyla, derzlerden hafifçe taşacak şekilde uygulanır. Uygulama sonrasında derzlerde boşluk kalıp kalmadığı kontrol edilir.

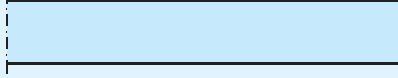
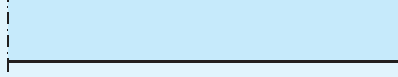


7. Vida başlarının macunlanması sırasında kapanan delikler, deliğe uyan kontrol aleti yardımı ile macun sertleşmeden yeniden açılır. Knauf Uniflott® donduktan sonra fazlalıklar mala ile kazınarak temizlenir.

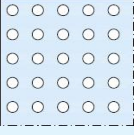
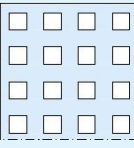
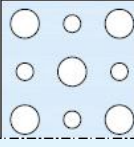
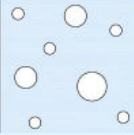
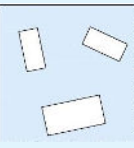


8. Derz dolgu ve macunlama işlemi sırasında delikler yanlışlıkla kapatılmışsa, plakanın delik tipine göre özel olarak hazırlanmış (8/18 D, 8/12/50 D, 12/20/66 D) perforasyon temizleyicileri ile yeniden açılır. Son aşamada, macunlanmış ve kurumuş yüzeyler zımparalanarak pürüzsüz hale getirilir. Boya uygulamalarından önce, gerekli görülürse yüzeye Tiefengrund astar uygulanır. Astar ve boya uygulamasında kısa tüylü rulo veya fırça kullanılır.
Not: Astar, uygulanacak boya/kaplama maddesi ile uyumlu olmalıdır.

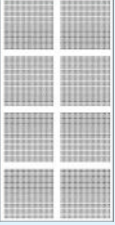
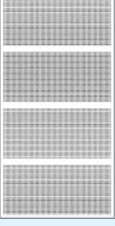
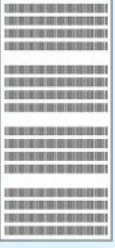
Teknik Özellikler

Tanım	Birim	12,5 mm	Standart
Yangına tepki	sınıf	A2-s1,d0	TS EN 14190
Ağırlık	kg/m ²	Bkz. S.4	-
Uzun kenar tipi	-	Küt kenar (KK) 	-
Kısa kenar tipi	-	Küt kenar (KK) 	-
Genişlik toleransı	mm	+0 / -4	TS EN 14190
Uzunluk toleransı	mm	+0 / -5	TS EN 14190
Kalınlık toleransı	mm	+0,5 / -0,5	TS EN 14190
Kısa kenarın diklikten sapması (1 m plaka genişliği için)	mm	≤ 2,5	TS EN 14190
Kuru eğilme yarı çapı	mm	$r \geq 3000$ / $r \geq 3500$ (Dağınlık Dairesel Delikli)	-
Islak eğilme yarı çapı	mm	$r \geq 2000$ / $r \geq 2500$ (Dağınlık Dairesel Delikli)	-
Isı iletkenlik λ	W/(m·K)	0,23	EN 12524
Eğilmede kırılma yükü (uzun kenar doğrultusunda)	N	≥ 550	TS EN 14190
Eğilmede kırılma yükü (kısa kenar doğrultusunda)	N	≥ 210	TS EN 14190
Ses yutum değeri	(α)	Bkz. S.4-5	TS EN ISO 11654

Teknik Özellikler

Plaka Tipi	Perforasyon	Kalınlık (mm)	Ağırlık (kg/m²)	Genişlik (mm)	Uzunluk (mm)	Perforasyon Oranı (%)	Ses Yutum Değeri (α)	Ürün Kodu (siyah şilte)	Ürün Kodu (beyaz şilte)
Dairesel Delikli 	6 / 18 D	12,5	~ 9,4	1134	2394	8,7	0,45 - 0,5	264796	264795
	8 / 18 D		~ 8,8	1134	2394	15,5	0,6 - 0,7	264776	264773
	10 / 23 D		~ 8,8	1127	2392	14,8	0,6 - 0,7	264792	264791
	12 / 25 D		~ 8,5	1150	2400	18,1	0,6 - 0,75	264799	264798
	15 / 30 D		~ 8,4	1140	2400	19,6	0,6 - 0,75	264801	264800
Kare Delikli 	8 / 18 K	12,5	~ 8,8	1188	1998	19,8	0,6 - 0,75	71257	71258
	12 / 25 K		~ 8,8	1150	2400	23	0,6 - 0,8	264785	264784
Şaşırtmalı Dairesel Delikli 	8 / 12 / 50 D	12,5	~ 9,0	1100	2400	13,1	0,6 - 0,65	264790	264789
	12 / 20 / 66 D		~ 8,4	1124	2376	19,6	0,6 - 0,7	264772	264764
Dağınık Dairesel Delikli Plus R 	8 / 15 / 20 D	12,5	~ 9,3	1200	1998	9,9	0,5	539241	539242
Konfeti Dikdörtgen Delikli 	-	12,5	~ 9,3	1199	1999	16,6	0,5	550248	550249

Teknik Özellikler

Plaka Tipi	Perforasyon	Kalınlık (mm)	Ağırlık (kg/m ²)	Genişlik (mm)	Uzunluk (mm)	Perforasyon Oranı (%)	Ses Yutum Değeri (α)	Ürün Kodu (siyah şilte)	Ürün Kodu (beyaz şilte)
Blok Halinde B4 	6 / 18 D	12,5	~ 8,5	1188	2376	7,2	0,35 - 0,65	280509	280508
	8 / 18 D		~ 8,5	1188	2376	12,1	0,35 - 0,65	280488	240487
	10 / 23 D		~ 8,5	1196	2392	12,7	0,35 - 0,65	280528	280527
	12 / 25 D		~ 8,5	1200	2400	13,8	0,35 - 0,65	280703	280702
	15 / 30 D		~ 8,5	1200	2400	15,9	0,35 - 0,65	280709	280708
	12 / 25 K		~ 8,5	1200	2400	17,7	0,35 - 0,65	94889	280533
Blok Halinde B5 	6 / 18 D	12,5	~ 8,5	1188	2376	5,8	0,35 - 0,65	280512	280511
	8 / 18 D		~ 8,5	1188	2376	9,1	0,35 - 0,65	280503	280501
	10 / 23 D		~ 8,5	1196	2392	10,6	0,35 - 0,65	280530	280529
	12 / 25 D		~ 8,5	1200	2400	10,2	0,35 - 0,65	280705	280704
	15 / 30 D		~ 8,5	1200	2400	12,6	0,35 - 0,65	280711	280710
	12 / 25 K		~ 8,5	1200	2400	13	0,35 - 0,65	94942	280698
Blok Halinde B6 	6 / 18 D	12,5	~ 8,5	1188	2376	7,7	0,35 - 0,65	280525	280523
	8 / 18 D		~ 8,5	1188	2376	12,9	0,35 - 0,65	280507	280504
	10 / 23 D		~ 8,5	1196	2392	13,2	0,35 - 0,65	280532	280531
	12 / 25 D		~ 8,5	1200	2400	14,8	0,35 - 0,65	280707	280706
	15 / 30 D		~ 8,5	1200	2400	16,8	0,35 - 0,65	280713	280712
	12 / 25 K		~ 8,5	1200	2400	18,9	0,35 - 0,65	280701	280700
Slotline B6 	-	12,5	~ 8	1200	2400	15,7	0,5 - 0,65	76180	94831

Sistem Performans Özellikleri

Ses yalıtımı, yangın dayanımı ve benzeri performans değerleri, Alçıpan®'ın kullanıldığı sistem ve bileşenlerine göre farklılık göstermektedir.

Detaylı bilgi için bakınız;

[Knauf Teknik](#)

[Doküman Merkezi](#)

[Mekansal Akustik Simülasyonu](#)

Uygulama

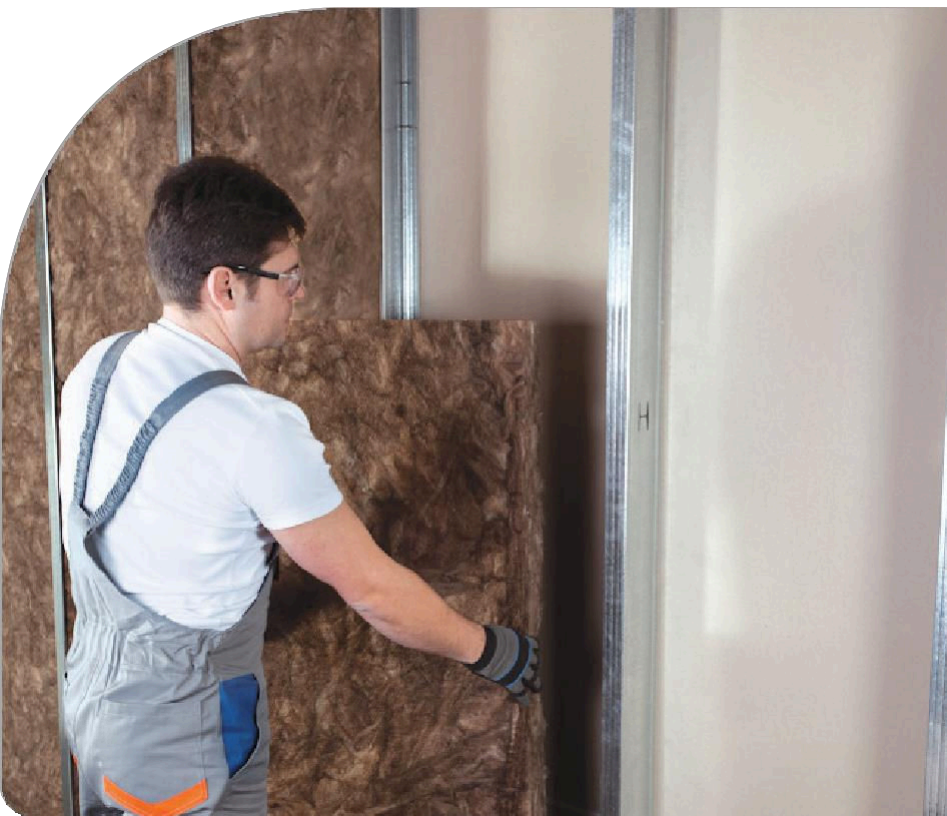
Uygulama için Knauf sistem broşürlerinde belirtilen teknik detaylara ve uygulama yöntemlerine uyulması önerilir. Detaylı bilgi için bakınız;

[D11 Asma Tavan Kataloğu](#)

[W61 Duvar Giydirme Kataloğu](#)

[Cleaneo® Broşür](#)





PRODUCT INFO

MineralPlus IPB 037 is a mineral wool based, flexible partition wall insulation slab with minimum dusting and easy application properties. MineralPlus IPB 037 is specially designed for partition wall systems and offers high level of thermal and sound insulation, as well as providing A1 reaction to fire class. MineralPlus is the only insulation slab in Turkish Market to provide Turkey's first and only "Eurofins Indoor Air Comfort Gold Certificate" and always ensures clean indoor air. MineralPlus' binder context does not contain phenol, formaldehyde and similar types of components. With its flexible nature, MineralPlus enables easier applications and saves labor and time on insulation applications. MineralPlus can be easily installed to plasterboard systems and ensures maximum performance by enabling continuous insulation.

Thickness (mm)	Width (mm)	Length (mm)	Thermal Conductivity Coefficient λ_D (W/mK)	Thermal Resistance R (m ² k/W)
40	600	1200	0,037	1,10
50	600	1200	0,037	1,35
60	600	1200	0,037	1,60
80	600	1200	0,037	2,15
100	600	1200	0,037	2,70

MineralPlus IPB 037 Partition Wall Insulation Slab



MAIN PROPERTIES

Thermal Conductivity Coefficient:

$\lambda_D=0,037$ W/m.K

Reaction to Fire Class:

A1

Provides high sound insulation performance

Tested in authorized laboratories.

PRODUCT PROPERTIES

- Low thermal conductivity coefficient, resistant to heat transmission.

$\lambda_D=0,037$ W/m.K

- Absorbs air-borne sounds.
- Reaction to fire class; A1
- Does not itch thanks to its minimum dusting advantage.
- Flexible, easy to use, saves time and labor.
- Provides lower inventory cost thanks to compressed packages.

KNAUFINSULATION



with **ECOSE** TECHNOLOGY

MineralPlus IPB 037

Partition Wall Insulation Slab

Technical Properties	Unit	Value
Thermal Conductivity Coefficient	W/m.K	0,037
Reaction to Fire Class	-	A1
Water Vapor Diffusion Resistance	-	1
Short-term Water Absorption Value	Kg/m ²	≤ 1
Long-term Water Absorption Value	Kg/m ²	≤ 3
Compressive Strength (at 10% deformation)	kPa	Not Needed
Certificate	-	CE
Package	-	PE film

Application:

MineralPlus IPB 037 is a specially designed insulation slab for partition walls and can be easily installed to plasterboard systems. 1 — 1,5 cm air gap between plasterboard and MineralPlus IPB 037 can create a better insulation performance. MineralPlus IPB 037's flexible nature allows a continuous insulation application and provides maximum insulation performance.

Packaging and Storage:

PE film covered and compressed MineralPlus packages contain different quantities of slabs depending on the thickness of slabs. When the compressed packages opened, the slabs extend to their original size and this allows more m² product per package. Pictograms showing application details are located on the package. MineralPlus packages should be contained in sheltered areas and should not directly contact with the ground.



Thermal
Insulation



Sound
Insulation



Fire
Resistance



PRODUCT INFO

MineralPlus FCB 034, has developed for providing superior performance on Ventilated façade insulation applications. It offers high thermal and sound insulation performance and ranked as A1 on reaction to fire classification, highest level of performance, according to EN 13501-1. It has minimum dusting behavior and easy application with its flexible structure; which enables saving labor cost and time during application. It does not contain harmful chemicals in its binder content, like phenol and formaldehyde. It has the minimum VOC ratio. Knauf Insulation has become the world's first company to receive the Eurofins Indoor Air Comfort Gold standard which as an outstanding material according to the VOC (Volatile Organic Compounds) Indoor Air Quality emissions regulations. Thus, helps to the keeping air clean and healthy.

Thickness (mm)	Width (mm)	Length (mm)	Thermal Conductivity Coefficient λ_D (W/mK)	Thermal Resistance R (m ² k/W)
30	600	1200	0,034	0,85
50	600	1200	0,034	1,45
60	600	1200	0,034	1,75
80	600	1200	0,034	2,35
100	600	1200	0,034	2,90

MineralPlus FCB 034 Ventilated Facade Insulation Slab



MAIN PROPERTIES

Thermal Conductivity Coefficient:

$\lambda_D = 0,034$ W/m.K

Reaction to Fire Class:

A1

Provides high sound insulation performance
Tested in authorized laboratories.

PRODUCT PROPERTIES

- Low thermal conductivity coefficient, resistant to heat transmission.
 $\lambda_D = 0,034$ W/m.K
- Absorbs air-borne sounds
- Reaction to fire class; A1
- Minimum itchiness and minimum dust.
- Does not itch thanks to its minimum dusting advantage
- Flexible, easy to use, saves time and labor.
- Provides lower inventory cost thanks to compressed packages.

KNAUFINSULATION



with **ECOSE** TECHNOLOGY

MineralPlus FCB 034

Ventilated Facade Insulation Slab

Technical Properties	Unit	Value
Thermal Conductivity Coefficient	W/m.K	0,034
Reaction to Fire Class	-	A1
Water Vapor Diffusion Resistance	-	1
Short-term Water Absorption Value	Kg/m ²	≤ 1
Long-term Water Absorption Value	Kg/m ²	≤ 3
Compressive Strength (at 10% deformation)	kPa	Not Needed
Certificate	-	CE
Package	-	PE film

Application:

MineralPlus FCB 034 is a specially designed insulation slab for ventilated facades and can be easily installed in the ventilated façade system. MineralPlus FCB 034's water repellent and flexible nature allows a continuous insulation application and provides maximum insulation performance.

Packaging and Storage:

PE film covered and compressed MineralPlus packages contain different quantities of slabs depending on the thickness of slabs. When the compressed packages opened, the slabs extend to their original size and this allows more m² product per package. Pictograms showing application details are located on the package. MineralPlus packages should be contained in sheltered areas and should not directly contact with the ground.



Thermal
Insulation



Sound
Insulation



Fire
Resistance



EARTHWOOL 040 ALU

New Generation Mineral Wool Based Insulation Roll

PRODUCT DESCRIPTION:

Earthwool 040 Alu, produced with revolutionary ECOSE Technology, is new generation light, long-lasting, environmentally friendly, aluminium folio faced mineral wool based loft roll. **Earthwool 040 Alu**, can be produced with one side ECOSE veil faced according to purpose of use or required performance.

MAIN PROPERTIES:

Thermal Conductivity Coefficient:

$\lambda_D = 0,040 \text{ W/m.K}$

Reaction to Fire Class:

Euroclass C TS EN 13501-1)

Environmentally Friendly ECOSE® Technology

Binder content does not contain phenol, formaldehyde, etc. type volatile compounds.

Thickness	Width	Length	Thermal Conductivity Coefficient	Thermal Resistance
(mm)	(mm)	(mm)	$\lambda_D \text{ (W/mK)}$	R (m ² k/W)
50	1200	10000	0,040	1,25
80	1200	10000	0,040	2,00
100	1200	8000	0,040	2,50

Earthwool 040 ALU

New Generation Mineral Wool Based Insulation Roll



PRODUCT ADVANTAGES

- Provides lightweight and cost effective insulation solution.
- Provides perfect thermal insulation with lower thermal conductivity coefficient while providing high sound insulation performance with its unique fiber structure.
- **Earthwool 040 ALU**, providing maximum safety against fire in buildings, is Class C in reaction to fire classification. (Euroclass C: Non-combustible, does not spread fire, does not contribute to fire).
- **Earthwool 040 ALU** has very low volatile organic compound level thanks to innovative ECOSE® Technology which does not contain phenol, formaldehyde type



harmful chemicals, acrylics and dye in its binder content.

With its eco-friendly structure, helps to create more healthy and habitable living areas.

- Thanks to its unique fiber structure, dusts less than alternative rolls and has minimum itchiness. Enables easy and comfortable applications.

- With its never-before-seen flexible and resilient fiber structure, **Earthwool 040 ALU** can easily be cut and shaped without having any breaks or ruptures in the product.

- **Earthwool 040 ALU** prevents thermal and sound leaks and provides continuous insulation by its easy and perfect adaptation on every kind of surface.

Technical Properties	Unit	Value
Thermal Conductivity Coefficient	W/m.K	0,040
Reaction to Fire Class	-	C
Water Vapor Diffusion Resistance	-	≤ 1
Short-Term Water Absorption Value	Kg/m2	≤ 3
Long-Term Water Absorption Value	Kg/m2	CE
Certificate	-	CE
Package	-	PE Film

APPLICATION:

Earthwool 040 ALU Loft Roll should be unpacked and fully opened. The opened roll should be lightly shaken sideways and gently agitated by 'bouncing' it on its side until it uniformly recovers to thickness stated on the label. Application should begin by laying **Earthwool 040 ALU** from the furthest point and work back towards the access hatch of the loft area.

During application, rolls should be tightly joined by fully contacting roll sides to each other and leaving no air gaps between two rolls.

Earthwool 040 ALU Loft Roll may be trimmed to appropriate sizes if required. During installation, potential corner, side voids must be filled with any Earthwool 040 ALU off-cuts.

PACKAGING AND STORAGE:

Earthwool 040 ALU Loft Roll, comes palletized in compressed packages with double layer PE protective film and a final shrink layer. When opened, Earthwool 040 ALU Loft Roll extends to its original size. Please refer to APPLICATION section for size retrieval. Pictograms showing application details are located on the package. Earthwool 040 ALU packages should be contained in sheltered, dry, damp-free and indoor areas and should not directly contact with the ground.

Physical and Chemical Properties

Surface Appearance : Smooth or Textured

Physical State : Solid

Odor : None

Color : Natural

pH : N/A

Boiling Point (°F) : N/A

Flash Point (°F) : N/A

Vapor Density (Air=1) : N/A

Melting Point (°F) : N/A

Yield Point (°F) : N/A

Relative Density (gr/cm³) : 1,35 gr/cm³

Softening Point (°F) : N/A

Evaporative Rate (ethyl ether=1) : N/A

Freezing Point (°F) : N/A

Vapor Pressure (mmHg@20°C) : N/A

% Volatile by Volume : N/A

% Solubility in Water : N/A

Viscosity : N/A



HEKİM YAPI

ENDÜSTRİSİ SAN. VE TİC. A.Ş.

Technical Data Sheet

Technical Specifications

TECHNICAL SPECIFICATION	DESCRIPTION	TECHNICAL SPECIFICATION	DESCRIPTION
Standard Sizes	Smooth and Textured: 1 250 x 2 500 mm, 1 250 x 3 000 mm	Freezing Strength	Resistant to freezing according to TS EN 12467
Thickness	Smooth: 6 ~ 20 mm – Textured: 8 ~ 12 mm	Waterproofing	Waterproof according to TS EN 12467
Length / Width Tolerance	± 5 mm / ± 3.75 mm	Fire Reaction Class	Non-combustible, A1 class construction material according to EN 13501-1
Thickness Tolerance (e: board thickness)	Smooth: ± 10% e, Textured: - 10% e / + 15% e	Asbestos Content	Non-Asbestos (NT type product)
Squareness of Edges	± 2 mm/m	Other Hazardous Material Emission	Has no hazardous material or gas emission
Straightness of Edges (a: side length)	± 0.1% a	Thermal Expansion Coefficient	$\alpha_t = 0.005 \text{ mm/mK}$
Surface View	Smooth or textured	Thermal Conductivity	$\lambda = 0.20 \text{ W/mK}$
Density	$\sim 1\,350 \pm 50 \text{ kg/m}^3$	Modulus of Elasticity	8 000 N/mm ² (length), 6 000 N/mm ² (width)
Vapor Diffusion Resistance	$\mu \leq 30$	Water Absorption	<30%
Porosity	~ 30%	Stock Sheet Moisture	<10% (depending on the atmospheric humidity)
Bending Strength (Minimum)	~ 14.0 N/mm ² (length); ~ 9.0 N/mm ² (width)	Bending Radius (By Thickness)	8 mm.. 8 000 mm; 10 mm.. 12 000 mm; 12 mm.. 24 000 mm; 16 mm.. 50 000 mm
Hygrical Movement	0.5 mm/m (full saturation)		

Usage Areas

Fibercement Boards can be used on the interior and exterior facade cladding applications of all kinds of buildings. Boards with 1250 mm standard width are produced in two different lengths of 2500 mm and 3000 mm. Non-standard dimensions special sizes can be produced. Areas of use of boards are facade cladding, decorative cladding, exterior cladding, interior facades.

Transportation, Storage and Protecting

The products are manufactured in accordance with TS EN 12467 + A2 standard, TS ISO 10002 Customer Satisfaction Management System. the materials are loaded into the vehicles with the utmost care at the factory. It is necessary to pay attention to the discharge, of products on the construction site after transportation, to ensure that the boards are not damaged by rain, mud, etc. until installation. it is necessary to protect it in accordance with natural conditions.





COREX tapes

Product Data and Submittal Sheet

DESCRIPTION

- **Joint tape** is a self-adhesive fibreglass tape used on plasterboard joints and in the construction of plasterboard partition walls, dry- lining and suspended ceiling systems.
- Joint tape prevents cracks at the joined edges of the plasterboard and creates a surface that works uniformly.
- **Resilient tape** is fixed under the galvanized steel tracks and studs in the construction of plasterboard partition walls and dry-linings.
- **Resilient tape** improves the acoustic insulation performance of walls by eliminating noise bridges.
- **Corner tape** ensures the perpendicularity of corners in plasterboard partition walls, dry-lining and suspended ceiling systems, and increases resistance to impact.

USAGE

Jointing tape and corner tape are used:

- In the construction of plasterboard partition walls, dry-lining and suspended ceiling systems.

Resilient tape is used:

- In the construction of plasterboard partition wall and dry-lining systems.

PROPERTIES

Jointing tape:

- Is self-adhesive.
- Is resistant to alkali.

Resilient tape:

- Is a closed-cell, low-density polyethylene sponge.
- Has one side coated with acrylic-based adhesive, so that it is self-adhesive.
- Prevents creation of noise bridges and manages surface distortions between tracks and substrate
- Is used for filling in joints where it is desirable to keep out both sound and dust.

Corner tape:

- Is a paper plaster supported with galvanized metal bands.
- Is resistant to corrosion, as the metal bands are electrolytically coated with zinc.
- Is easy to transport as it is available as a 30 mroll in one box.

APPLICATION

Joint tape, paper tape:

- On **COREX** joints, apply **DERZTEK** jointing compound over the plasterboard joints

Resilient tape:

- Is fixed under wall U tracks before these are attached in the construction of partition walls, and under wall C studs that are to be attached to the side walls.
- Is fixed under ceiling U tracks before these are attached in the construction of dry-linings.

Corner tape:

- Corner tape is fixed on plasterboard corners using **DERZTEK** joining compound, with the metal bands orientated to the inside of the corner.

COREX tapes



TECHNICAL SPECIFICATIONS

	Joint tape		Paper tape	Resilient tape			Corner tape
				50	75	100	
Length	90 m		150 m	25 m			30 m
Width	50 mm	100 mm	50 mm	50-75-100 mm			51 mm
Thickness	~0,13 mm		~0,28 mm	~3 mm			~0,28 mm
Colour	White		Dark grey	-			-
Average weight	~0,30 kg/rolls	~0,60 kg/rolls	1,2 kg/rolls	-			-
Compressive Strength	-		-	40 kPa (%25)			-
Water absorption	-		-	<%1 (7 days)			-
Thermal conductivity (λ)	-		-	0,039 W / mk			-
Working temperature	-		-	-40 / +100 °C			-

PACKAGING

	Joint tape		Paper tape	Resilient tape			Corner tape
				50	75	100	
Package weight (kg/unit)	~3	~6	~1,2	~3,9	~6,6	~7,8	~18
Package	10 rolls/box	6 rolls/box	10 rolls/box	10 rolls/box			10 rolls/box



falcon corex

Green

Product Data and Submittal Sheet

DESCRIPTION

- **Falcon COREX Green** is 17% lighter than standard **COREX Green**. With **Falcon COREX Green**, the weight of the suspended ceiling can be reduced by 17% and in the double layer partition wall by up to 5.4 kg per square meter.
- The **Falcon COREX Green**, which weighs 6.66 kg/m² is manufactured with advanced **COREX** technology.
- For water and moisture resistance, the core of **Falcon COREX Green** is strengthened with water repellent agents.
- **Falcon COREX Green**, is a plasterboard that is used in the construction of partition walls, drywall linings and suspended ceilings where water and moisture resistance are required.
- Both faces of **Falcon COREX Green** are covered with special paper that gives flexibility and high strength to the plasterboard.
- **Falcon COREX Green** can be covered with tile, ceramic tile and similar materials.
- **Falcon COREX Green** is plasterboard that can be subjected to water and moisture for extended periods and is suitable for bathrooms, toilets, kitchens, dining areas and loft spaces.

PROPERTIES

- **Falcon COREX Green** can be used for:
 - Non-load-bearing partition walls, by screwing it to both faces of a metal frame.
 - Dry-lining, by screwing it to one face of a metal frame or by bonding it to the existing wall.
 - Suspended ceilings, by screwing it to the metal frame that has been fastened to the existing floor with a hanger system.

USAGE

- **Falcon COREX Green** is light and flexible. It can be transported horizontally and vertically without problem.
- Because of its high flexural strength, its breakage rate during loading and unloading is lower than that of equivalent boards.
- Cutting and installing **Falcon COREX Green** is easy, so it increases productivity and installations can be completed more rapidly.
- **Falcon COREX Green** is suitable for all kinds of finishes. It can be undercoated and painted. SATEN TEK and wallpaper can be applied to it.
- **Falcon COREX Green** can easily be mounted and dismantled, so it is easy to make changes to layouts.
- All kinds of piping and wiring can be placed between or behind **Falcon COREX Green** applications, making installation work easier.

PERFORMANCE

- Because of its low weight, **Green COREX** bends less than equivalent boards in suspended ceiling applications.
- As it is possible to construct narrow cross-sectional partition walls using **Falcon COREX Green**, the usable area of the building is increased.
- When used with insulation materials, **Falcon COREX Green** creates an effective increase in acoustic and thermal insulation.
- As it is a breathable material, by stabilizing humidity **Falcon COREX Green** leads to a healthier environment.

RECOMMENDATIONS

- Do not allow **Falcon COREX Green** to remain in direct contact with water for long periods.
- Use **ADERTEK** bonding plaster to bond green COREX to existing walls.
- Use **DERZTEK** jointing compound on **Falcon COREX Green** joints.



LIMITATIONS

- **Falcon COREX Green** plasterboard is for internal applications only.
- **Falcon COREX Green** plasterboard is nonstructural product and should never be used as a nailing base or to support heavy wall mounted objects. It is not for load-bearing design.
- **Falcon COREX Green** plasterboard must not be installed where the temperature may exceed 52°C, for an excessive amount of time and must be installed while the ambient temperature at the time of installation is between 4°C and 35°C.

STORAGE and HANDLING

- Boards should be stacked flat. Gypsum board must be stored in dry areas
- Handle with care to prevent sagging and/or damaging the surfaces, edges and ends.
- Gypsum board must be stored under protective cover and off the ground.
- Sufficient risers must be used to assure support for the entire length of the gypsum board to prevent sagging.

STANDARD

TS EN 520 +A1	Plasterboards-Descriptions-Requirements and Experiment Methods
---------------	--

TECHNICAL SPECIFICATIONS

Length	2000 mm-3600 mm
Width	1200 mm
Thickness	12,5 mm
Average weight	-6,66 kg/m ²
Flexural strength (Perp. to paper fibres)	≥ 550N
Flexural Strength (Parallel to paper fibres)	≥210 N
Edge type	İK (Tapered Edge)
Water absorption (by weight)*	≤ % 10
Thermal conductivity (λ)	0,25 W/mK
Water vapour permeability resistance factor	10
Reaction to fire	A2 - s1, d0 (TS EN 520 +A1'e göre)

*Water absorption based on weight of plasterboards with reduced water absorption rate according to TS EN 520 +A1 is maximum 5% for H1 class and maximum 10% for H2 class after 2 hours.

PACKAGING

Thickness	12,5 mm
Number of boards in one pallet	60 pcs/pallet



Improved Core Adhesion at High Temperature

corex

Product Data and Submittal Sheet

DESCRIPTION

- **Red COREX** is a plasterboard that is used for construction of partition walls, drywall linings and suspended ceilings where resistance to fire is required.
- To increase fire resistance, the core of **Red COREX** is enhanced by special fibres and additives.
- Both faces of **Red COREX** are covered with special paper that gives flexibility and high strength to the plasterboard.
- **Red COREX** can be used in public buildings such as schools, hospitals, hotels, and commercial and business centres to improve fire safety.

USAGE

Red COREX can be used for:

- Non-load-bearing partition walls, by screwing it to both faces of a metal frame.
- Dry- lining, by screwing it to one face of a metal frame or by bonding it to the existing wall.
- Suspended ceilings, by screwing it to the metal frame that has been fastened to the existing floor with a hanger system.

PROPERTIES

- **Red COREX** is light and flexible, and can easily be carried horizontally and vertically.
- Because of its high flexural strength, 'it has a lower breakage rate during loading and unloading than equivalent boards
- Because cutting and installing **Red COREX** plasterboard is easy, productivity increases and installations are completed more rapidly.
- It is suitable for all kinds of finishing. It can be undercoated and painted. **SATENTEK** and wallpaper can be applied to it.
- **COREX** can easily be mounted and dismantled, so it is possible to make changes in layouts.
- All types of pipework and wiring can be placed between or behind **COREX** applications, making installation work easy.

PERFORMANCE

- As it is possible to construct narrow cross-sectional partition walls using **COREX**, the available floor area of the building is increased
- When used with insulation materials, **COREX** causes an effective increase in acoustic and thermal insulation.
- It significantly increases the fire resistance of structural elements such as reinforced concrete, steel and wood.
- **Red COREX** installations have higher fire resistance in terms of minutes compared to other plasterboard and conventional building material installations

! Fire resistance in terms of minutes is specific to structural elements (structural systems); as it is a construction material, plasterboard does not have fire resistance on its own.



Greenguard certification is a certificate that shows the effects of our products on indoor air quality



RECOMMENDATIONS

- Use **ADERTEK** bonding plaster to bond **Red COREX** to the existing walls.
- Use **DERZTEK** jointing compound on **COREX** joints.

LIMITATIONS

- **Red COREX** plasterboard is for internal applications only.
- **Red COREX** plasterboard is nonstructural product and should never be used as a nailing base or to support heavy wall mounted objects. It is not for load-bearing design.
- **Red COREX** plasterboard is unsuitable for use in areas subject to continuously damp or humid conditions. The designers should take care to eliminate all possibility of problems caused by humidity and condensation.
- **Red COREX** plasterboard must not be installed where the temperature may exceed 52°C, for an excessive amount of time and must be installed while the ambient temperature at the time of installation is between 4°C and 35°C.

STORAGE and HANDLING

- Boards should be stacked flat. Gypsum board must be stored in dry areas
- Handle with care to prevent sagging and/or damaging the surfaces, edges and ends.
- Gypsum board must be stored under protective cover and off the ground.
- Sufficient risers must be used to assure support for the entire length of the gypsum board to prevent sagging.

STANDARD

Standard	TS EN 520 +A1	Plasterboards-Descriptions-Requirements and Experiment Methods
Type	Plasterboard with Improved Density and Core Adhesion at High Temperature Fire Resistance (DF)	

TECHNICAL SPECIFICATION

	General Type	All Types		
Length*	2500 mm	2000 mm - 3600 mm		
Width	1200 mm	1200 mm		
Thickness	12,5 mm	12,5 mm	15 mm	18 mm
Average weight	~10,30 kg/m²	~10,3 kg/m²	~13,30 kg/m²	~16,30 kg/m²
Flexural strength (Parallel to paper fibres)	≥ 550 N	≥ 550 N	≥ 650 N	≥770 N
Flexural Strength (Parallel to paper fibres)	≥ 210N	≥210 N	≥250N	≥300 N
Edge type	IK	IK (Tapered Edge) – KK (Square Edge)		
Thermal conductiviity (λ)	0,25 W/mK			
Water vapour permeability resistance factor	10			
Reaction to fire	A2 - s1, d0 (Acc. to TS EN 520 +A1)			

PACKAGING

	General Type	All Types		
Thickness	12,5 mm	12,5 mm	15 mm	18 mm
Number of boards in one pallet	50 pcs/pallet	50 pcs/pallet	40 pcs/pallet	30 pcs/pallet

* Lengths other than 2500 mm are produced to special order.

Dış Cephe Kaplama Levhası

- **BoardeX**, özellikle saçak altlarında karşılaşılan sarkma ve sehımlerin önüne geçer.
- Kesim için jet taşı ve benzeri, yüksek hızlı toz çıkaran el aleti gerektirmez; standart el aletleri kullanılarak kesim yapılır.

- **BoardeX** yüzeyinde aşınma, bozulma, eğilme veya stoklanma aşamasında yüzeye gelebilecek darbelerle karşı dayanıklıdır.

UYARILAR

- **BoardeX** derzleri, alkali dayanımlı cam elyaf derz bandı ile çimento esaslı polimer dolgular içeren **PROBASE RENDER** derz ve sıva astarı uygulanmalıdır.

- **BoardeX** korozyona dayanıklı, özel üretilmiş borazan veya matkap uçlu **BoardeX** vidaları ile profillere sabitlenmelidir.

- **BoardeX**'in sabitleneceği vida aralığı en fazla 20 cm olmalıdır.

- Konstrüksiyonu oluşturan profil aks aralıkları ve profil tipi kullanılacak olan sisteme göre seçilmelidir.

- **BoardeX** yüzeyine uygulanan 160 gr/m² ağırlığındaki alkali dayanımlı sıva filesi, sıva içerisine gömülmeli, dış yüzeye yakın olmalıdır.

- **BoardeX** yüzey üzerine yerleştirilecek yalıtım malzemesi matkap uçlu mantolama dübeli kullanılarak profillere sabitlenmelidir.

- Dış duvar uygulamasında **BoardeX** derzleri şaşırtılarak uygulanmalıdır.

- Montolama dübel başlarına yüzey sıvamadan önce **PROBASE RENDER** ile ön dolgu yapılmalıdır.

- Köşelerin düzgünlüğünü sağlamak amacıyla PVC esaslı fileli köşe profili kullanılmalıdır.

- **BoardeX** su yalıtım malzemesi olarak kullanılmamalıdır.

- Sauna, hamam, ve termal havuz gibi yoğun ve sürekli nem barındıran ıslak hacimlerin tavanlarında **BoardeX** kullanılması durumunda, asma tavan arasında kalan hacimlerde su buharının düzenli tahliye edilmesini sağlayan kuvvetli havalandırma gibi tedbirlerin alınması gerekir.

- **BoardeX** ile yapılan dış cephe duvarlarında, yapının bulunduğu iklim bölgesine göre yoğunlaşma analizi yapılmalıdır.

- Gece-gündüz sıcaklık farkının fazla olduğu yerlerde, dışa bakan **BoardeX** yüzeyinin altındaki profile polietilen bant yapıştırılarak ısı köprüsü azaltılmalıdır.



- **BoardeX**, su ve neme karşı güçlendirilmiş çekirdeği ve özel turuncu renkli cam elyaf şilte kaplaması ile dış duvar imalatında kullanılan dış cephe kaplama levhasıdır.

- Dış cephe imalatlarında, her türlü kaplama malzemesi altında (metal kaplama, yalı baskı, ahşap kaplama, dekoratif tuğla kaplama, vb) “backerboard” olarak kullanılır.

- **BoardeX**, tüm saçak altı uygulamalarında kullanılır.

- **BoardeX**, iç mekanlarda ıslak alanların vazgeçilemez levhasıdır.

- **BoardeX**'in sahip olduğu boyutlar ile **COREX** sistem boyutları %100 uyumlu olup, 40 cm ve 60 cm akslarda çalışmaya olanak sağlar.

- Yürürlükte olan yangın yönetmeliğinin ilgili maddesinde yer alan, binaların dış cephelerinin yanmaz malzemeler ile kaplanması zorunluluğunun gerekli olduğu alanlarda tasarım kolaylığı sağlar.

- Ülkemizde yürürlüğe giren “Binalarda Enerji Performansı” yasası gereği, alınması zorunlu olan ve her binanın enerji sınıfını belirleyen, “Enerji Kimlik Belgesi”nde, enerji performans sınıfı A’dan G’ye kadar sınıflandırılmıştır.

- Dış duvarların, **BoardeX** dış cephe sistemleri ile yapılması durumunda, seçilen sisteme göre enerji performans sınıfında istenilen üst değerler sağlanmaktadır.

- **BoardeX**, Amerika’dan sonra Avrupa’nın ve Türkiye’nin alçı ihtiva eden ilk dış cephe kaplama levhasıdır.

(*) Bağımsız bir laboratuvar tarafından ASTM D 3273’e göre test edildiğinde, **BoardeX** panel skoru olarak en yüksek not olan 10 puanı almıştır ki; bu laboratuvar koşullarında küf üremediği anlamına gelmektedir.

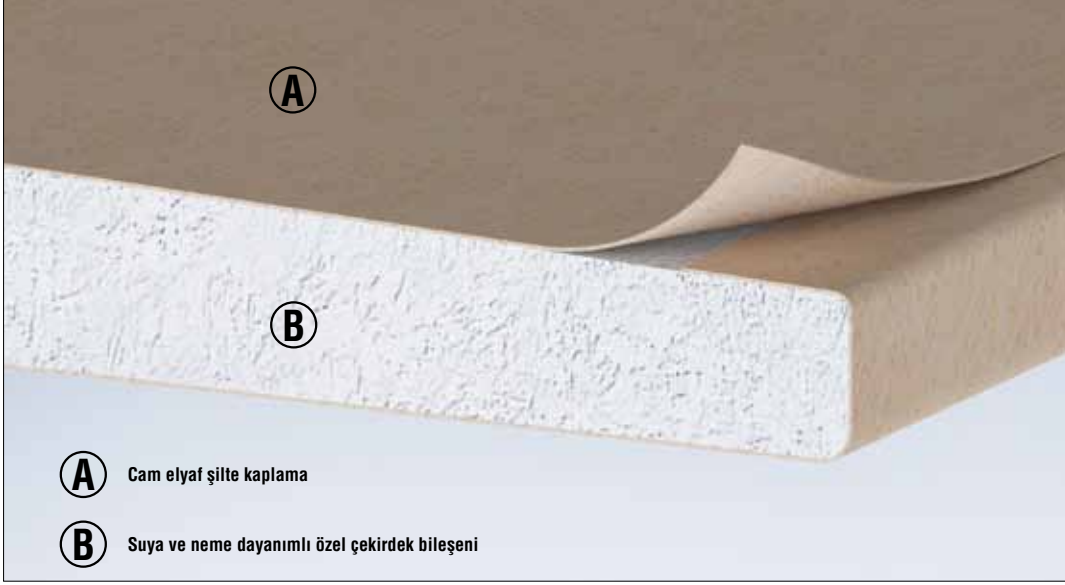
Dış Cephe Kaplama Levhası

KULLANIMI

- Dış cephe duvar sistemlerinde,
- Her türlü kaplama altında(Metal kaplama, yalı baskı, ahşap kaplama, dekoratif tuğla kaplama gibi)
- Havalandırmalı cephe sistemlerinde,
- Islak hacimlerde,
- Tüm saçak altı uygulamalarında,

ÖZELLİKLER

- **Boardex**, üzerindeki cam elyaf şilte kaplamanın, levha çekirdeğine iyice işleyip bütünleşmesi sayesinde, yüksek dayanıma sahip mükemmel bir levhadır.
- **Boardex**, geliştirilmiş özel çekirdeği sayesinde küf veya bakteri oluşumuna engel olur. Sıcaklık değişiminin duvarlarında yoğunlaşma ve nemden ötürü oluşabilecek küf ve mantar oluşumunu engeller.
- **Boardex**, A1 sınıfı yanmaz yapı malzemesidir. Üzerindeki cam elyaf şilte kaplaması ve özel çekirdek bileşenleri sayesinde yangın güvenliği açısından uygulandığı duvarların yangın dayanımını artırır.
- **Boardex** yüzeyine **PROBASE RENDER** derz dolgu ve sıva astarı uygulanarak, ilk astar katı tamamlanır. Daha sonra üzerine **PROBASE MINERAL** uygulanıp boyaya hazır hale getirilir.(*)
- Eğilmede kırılma yükü her iki yönde de birbirine çok yakın değerler sağlamaktadır. Bu **Boardex** 'i sadece yatay veya sadece dikey vidalanma zorunluluğundan kurtarır.
- **Boardex**, havalandırmalı cephe sistemlerinin vazgeçilmeyecek hem cephe düzelticisi, hem de sistemin taşıyıcısı olarak cephelere estetik kazandıran levhadır.
- Dış duvarları **Boardex** ile kaplanmış şantiyeler, iç mekanlarında her türlü uygulamanın yapılabilmesine şantiye ve katlardaki malzemeler dış hava koşullarından korunurken, içeride çalışanlar için daha konforlu bir çalışma ortamı sağlar.
- **Boardex** ile sıcaklığın çok fazla veya çok az olduğu her türlü hava koşullarında uygulama yapılabilir.
- **Boardex** sabitlendiği taşıyıcı sistemini korur ve dayanımına katkıda bulunur.
- **Boardex**, hafif ve taşınması kolay bir levhadır.



- Ahşap esaslı levhalar, çimento esaslı levhalar veya ahşap yonga/selüloz takviyeli çimento esaslı levhalara göre çok daha konforlu işlenme özelliğine sahiptir.

- **Boardex**, dış cephelerde kullanılan diğer levhalara oranla (çimento esaslı levhalar veya ahşap yonga/selüloz takviyeli çimento levhalar gibi) yüzeyden su emme ve neme karşı gösterdiği boyutsal kararlılık değerleri ile daha güçlü performans sağlar, yüzeyinden su emmez.

- **Boardex** benzersiz işlenebilirliği sayesinde maket bıçağı ile kolay kesilir, düzgün kesim yüzeyi çıkarır ve gerektiğinde kolaylıkla buat deliği açılarak uygulamaları zahmetsiz hale getirir.

- **Boardex** dış cephe sistemleri, ısı geçirgenlik katsayısı (U) düşük, ısı yalıtımı sağlayan daha performanslı duvarların yapımına olanak sağlar.

- **Boardex** dış cephe sistemleri, en yüksek enerji performansı olan “A ” enerji sınıfına sahip binalarda, dış cephe duvarlarının da en yüksek enerji performansına sahip olacak biçimde tasarlanmasını sağlar.

- **Boardex** dış cephe sistemleri ile yapılan duvarlar, yüksek performanslı ısı yalıtımı sağlarken aynı zamanda dar kesitli duvar imalatlarına olanak sağladığından binanın kullanım alanını artırır. Böylelikle daha fazla m² kullanım alanı yaratan binalar yapılabilir.

- Cam elyaf şilte kaplama sayesinde yüzeye uygulanacak mineral sıvanın, ve/veya ısı yalıtım malzemelerinin (EPS/XPS, Taşyünü gibi) yapışması için uygun zemini sağlar.

DIŞ CEPHE LEVHALARI İLE KARŞILAŞTIRMA

ÖZELLİKLER / FAYDALAR	boardex exterior sheathing	Çimento Esaslı Levhalar	Çimentolu Yonga Levhalar
Yüksek Nemli Alan Kullanımı	✓	✓	✓
Nem Bariyeri Özelliği	✓	X	X
Üstün Yangın Dayanımı	✓	X	X
Hafiflik	✓	X	X
Boyutsal Kararlılık	✓	✓	X
Kolay Kesilebilme Özelliği	✓	X	X
Düzgün Kesim Yüzeyi	✓	X	X
Maket Bıçağı ile Kesim Özelliği	✓	X	X

- Dış cephede, taş yünü ile mantolama yapılan binalarda, yüksek yoğunluklu malzeme kullanılır. **Boardex** dış cephe sistemleri ile düşük yoğunlukta taşıyünü kullanarak istenilen ısı yalıtım değerlerinde duvarlar elde edilebilir. Böylelikle binanın yalıtım malzemesi yükü azalır ve ısı yalıtımında etkili bir artış sağlanmış olur.

- Uygulandığı yüzeyde, dış hava koşullarında uzun süre (12 aya kadar) üzerine herhangi bir kaplama yapmaya gerek kalmadan, yüzeyi açıkta bırakılarak kullanılabilir. Böylelikle **Boardex** ile yapılan binalarda şantiye belli bir süre dış etkenlerden korunmuş olur.

- Özellikle, enerji verimliliği açısından, en üst seviyede pasif ev oluşturmaya olanak sağlayan dış cephe duvar çözümlerimiz ile ilgili Teknik Destek Bölüm'ümüzü danişiniz.

- **Boardex** sahip olduğu **Ulusal Teknik Onayı** ile bep-tr yazılım modülünde kütüphaneler / opak bileşenler / bileşen malzemeleri içinde 615 ve 616. numaralar ile yer almaktadır.



(*) Boardex yüzeyi üzerine alkali dayanımlı derz bandı ve 160gr/m² ağırlığında alkali dayanımlı sıva filesi kullanılarak Probase Render ile derz dolgu ve ilk kat astar uygulaması yapılır. Bu astar katı üzerine mineral sıva (PROBASE mineral) uygulanır. Mineral sıva üzerine yapılacak boya uygulamaları için, boya üreticilerinin önerilerine uyulmalı, uygulama koşulları hakkında bilgi alınmalıdır.

COLOR YOUR WORLD

Professional Solutions • Lasting Protection

Endüstriyel yüzeyler için üstün koruma,
uzun ömürlü performans ve
profesyonel çözümler.



HIGH
QUALITY



LONG
LASTING



STRONG
PROTECTION



ECO
FRIENDLY





کوالیتی باش



مقاوم به ناو



دیزاینی سروشتی



دوامدار



Natural Look

bahman.dicor



جوری تر و پهنگه کانی تر دا به رده سته



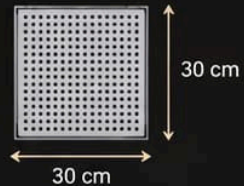


Aluminum Perforated Panel

30 × 30 cm

bahman.decor

-  High Quality Aluminum
-  Modern & Durable
-  Fire Resistant
-  Easy Installation
-  Sound Absorption



*Better Design
Better Space*