







DRYWALL PARTITIONS EN-BS

04 - 2015

KNAUF Group

Knauf was founded as a family-owned company by the brothers Karl and Dr. Alfons Knauf in 1932 in Germany.

The Knauf Group is present in its native country with numerous companies that manufacture innovative products geared to the applications and various requirements of the modern building materials market.

In their capacity as specialists for problem solutions, these firms, which operate mainly in the dry construction and plastering sectors, market their products worldwide.

Operating more than 150 production sites worldwide, today, Knauf is one of the world's leading manufacturers of building materials.

Knauf has a workforce of 23,000 in 40 countries and in 2012 the company generated sales was approximately 7 billion Euros.

Knauf LLC is the regional subsidiary for the Knauf Group in the Middle East, providing technical and commercial support, specification, design and training services.

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To our Valued Customers,

Greetings!

Knauf is a family name and a corporate group of global dimensions at the same time synonymous with a type of corporate culture which has become rare. Knauf is a typical Family firm in spite of its size and this is precisely the reason for its amazing success. It is short and direct decision-making paths, the courage to tackle new ideas, innovations, investments and the wealth of ideas contributed by all Knauf employees that characterize the company.

From its beginnings in gypsum processing, Knauf has expanded and diversified to become a corporation with worldwide activities, Knauf UAE has been active in the Middle East for more than a decade.

Knauf shows its commitment not only in the GCC, headquarters in Dubai UAE, but also in the Indian region.

We have offices based in Saudi and Qatar to support the market and dealers.

Knauf provides value-added products and services in the following fields:

- · Building materials and systems based on gypsum and gypsum-related products
- ASTM certified products & systems
- Multi- Purpose Joint compounds
- Knauf Aquapanel interior and exterior wall systems
- · Knauf Insulations sustainable, high-performance, cost-effective insulation solutions
- · Knauf Heradesign's acoustic designs for Interior and Exterior in ceiling & partition systems
- · Knauf Integral's Knauf GIFA Floor, sheet-panelled access floors
- · Thermal and sound insulation materials
- Value engineering and technical consultancy for architects and consultants to meet specified design requirements
- · On site hands-on training and supervision for contractors when installing drywall systems

Sustainability is central to our vision of doing the right thing for our clients, our people and the communities in which we work. We maintain and provide certificates for individual products and designs to improve quality and performance. Knauf systems combine innovative products to realize speed of installation and warranted high performance-based systems as per ASTM, EN-BS and DIN Standards.

Amer Bin Ahmed Managing Director Knauf GCC & India



Introduction

WHAT IS GYPSUM BOARD?

Gypsum board is the generic name for a family of panel products that consist of a noncombustible core, composed primarily of gypsum, and a paper surfacing on the face, back and long edges. Gypsum board is one of several building materials covered by the umbrella term "gypsum panel products." All gypsum panel products contain gypsum cores; however, they can be faced with a variety of different materials, including paper and fiberglass mats.

Gypsum board is often called drywall, wallboard, or plasterboard. It differs from other panel-type building products, such as plywood, hardboard, and fiberboard, because of its noncombustible core and paper faces. When joints and fastener heads are covered with a joint compound system, gypsum wall board creates a continuous surface suitable for most types of interior decoration.

Ease of installation

Knauf Gypsum board building systems are easy to install for several reasons. Gypsum board panels are relatively large compared to other materials. They come in 48 Inch wide sheets and various lengths, so they quickly cover large wall and ceiling areas. Knauf Gypsum board assemblies require only a few tools for their construction. Gypsum board can be cut with either a utility knife or a variety of saws, and it can be attached using the Knauf drywall TN or TB screws, it can also be adhesively attached to many substrates. Gypsum board is a lightweight material. Two workers can easily handle most panels and cover large areas in very short time periods. Gypsum board is easily finished using either a few hand tools or relatively modest machines. Gypsum board installers can quickly learn most application techniques in a few hours.

Durability

Knauf Gypsum board is used to construct strong, high quality walls and ceilings that offer excellent dimensional stability and durability. Surfaces created using gypsum board are easily decorated and refinished.

Economy

Knauf Gypsum board is readily available and easy to apply. It is an inexpensive wall surfacing material that provides a fire resistant interior finish. Gypsum board building systems can generally be installed at significantly lower labor costs than most alternate systems.

Versatility

Knauf Gypsum board satisfies a wide range of architectural requirements for design. Ease of application, performance, ease of repair, availability, and its adaptability to all forms of decoration combine to make gypsum board unmatched by any other surfacing product.



KNAUF PARTITIONS

These pages highlight which Knauf Drywall systems are most suited to meet performance criteria and bring a variety construction and end user benefits to the sector you are designing for.

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Schools, Universities, Training Facilities, Colleges

Cinemas, Theatres, Auditoriums



PARTITIONS

Knauf offers a wide range of non-load bearing lightweight partition systems. These partition systems can be implemented in the design of many types of buildings including residential housing, flats and apartments, commercial and industrial properties. These lightweight partition systems are designed to offer high performance to meet the most demanding fire resistance, sound insulation and height requirements.

Offering quick and simple speed of installation constructed from high quality Knauf components, our partitions are guaranteed to perform. KNAUF PARTITIONS provide satisfaction and reassurance in knowing that these components have been comprehensively tested together to ensure their performance, and that our support extends from concept to site.



Systems Overview

SYSTEMS DESIGNED TO MEET BUILDING REQUIREMENTS

Knauf offers systems for a large variety of building requirements, all fully complying to EN-BS standards.

n Fire protection

n

Moisture Resistance

n Sound insulationn Heavy duty walls

- n High partitions
- n Aesthetics

These systems are composed of gypsum boards and metal framing, joint compounds and other materials such as joint tapes, sealants, screws and insulation.

The products alone do not provide performance, the performance is given by the complete assembled system. System performance is achieved on following the correct installation details such as stud spacing and fixing centers, as well as using the nominated components such as gypsum boards, compounds, studs and insulation. The smallest of details such as the sealing of penetrations can have a large effect on the overall system performance.

Variations in construction or materials may reduce a system's fire and acoustic rating, structural capacity or other aspects of performance.

Systems	Performance	Fire resistance	Sound Reduction (RW)	Partition Width	Height
KW B111	n Economical solution n Fast space division		40 - 51 dB	75 - 176 mm	Up to 8.05 m
KW B112	 Optimum solution Meets most design criteria Small footprint High fire resistance 	Up to 120 min.	50 - 56 dB	100 - 206 mm	Up to 9.70 m
KW B115	 n High acoustic performances n High fire resistance n Optimum for separation walls 	Up to 120 min.	58 - 63 dB	155 - 249 mm	Up to 6.75 m
KW B116	 Nery good acoustic performance Accommodates large service runs High fire resistance Adjustable footprint 	Up to 120 min.	≥ 58 - 64 dB	300 - 450 mm	Up to 6.95 m



Board Type	Cladding Thickness	Studs size ¹	Total Thickness	Max. Height ²	Approx. Weight	Sound ³ Insulation Rw	Insulation ⁴ Thickness	Fire Rating ⁵
Regular (RG)	1 x 12.5 mm	CW 50	75 mm	3.10 m	23 Ka/m ²	40 dB	50 mm	_
Regular (RG)	1 x 15 mm	CW 50	80 mm	3.35 m	30 Ka/m ²	42 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 50	75 mm	3.10 m	25.8 Ka/m ²	42 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 50	80 mm	3.35 m	30 Ka/m ²	42 dB	50 mm	-
Pro HD board	1 x 12.5 mm	CW 50	75 mm	3.10 m	29.8 Kg/m ²	44 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 50	80 mm	3.35 m	34 Kg/m ²	44 dB	50 mm	60 min.
Pogular (PC)	1 x 10 5 mm	CW 70	05 mm	1 20 m	25 Kalm ²	41 dD	E0 mm	
Regular (RG)	1 x 15 mm	CW 70	95 mm	4.30 m	20 Kg/m^2	41 UD	50 mm	-
Fire Decistent (FD)	1 x 10 F mm	CW 70	05 mm	4.55 m	30 Kg/III	44 UD	50 mm	-
	1 x 12.5 mm		95 mm	4.30 m	25.8 Kg/m	44 0B	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 70	100 mm	4.35 m	30 Kg/m²	44 dB	50 mm	-
Pro HD board	1 x 12.5 mm	CW 70	95 mm	4.30 m	29.8 Kg/m ²	45 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 70	100 mm	4.35 m	34 Kg/m ²	46 dB	50 mm	60 min.
Regular (RG)	1 x 12.5 mm	CW 92	117 mm	5.10 m	25 Kg/m ²	43 dB	50 mm	-
Regular (RG)	1 x 15 mm	CW 92	122 mm	5.50 m	30 Kg/m ²	46 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 92	117 mm	5.10 m	25.8 Kg/m ²	45 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 92	122 mm	5.50 m	30 Kg/m ²	46 dB	50 mm	-
Pro HD board	1 x 12.5 mm	CW 92	117 mm	5.10 m	29.8 Kg/m ²	47 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 92	122 mm	5.50 m	34 Kg/m ²	48 dB	50 mm	60 min.
Regular (RG)	1 x 12.5 mm	CW 146	171 mm	7.70 m	25 Kg/m ²	45 dB	50 mm	-
Regular (RG)	1 x 15 mm	CW 146	176 mm	8.05 m	30 Kg/m ²	49 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 146	171 mm	7.70 m	25.8 Kg/m ²	47 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 146	176 mm	8.05 m	30 Kg/m ²	49 dB	50 mm	-
Pro HD board	1 x 12.5 mm	CW 146	171 mm	7.70 m	29.8 Kg/m ²	50 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 146	176 mm	8.05 m	34 Kg/m ²	51 dB	50 mm	60 min.

- 1. Knauf CW profiles metal thickness 0.6 mm, flange 35 mm
- 2. Maximum heights calculated based on a limiting deflection I/240 on 200 Pa
- 3. Sound calculation based on ISO 140
- 4. Glass wool insulation, 16 Kg/m³
- 5. Fire rating according to BS-EN 476, part 4 & EN 1364-1

For wet areas, we recommend the use of Moisture Resistant Board. Replacing the Regular Board with Moisture Resistant Board, or replacing the Fire Resistant board with Fire and Moisture Resistant Board will have no influence on system's parameters. Other systems are also available. Should your requirements fall outside the above stated systems, please contact Knauf Technical Department at +971 4 3377170.



Board Type	Board Width	Stud Spacing
Regular (RG)	1200 mm	600 mm *
Moisture Resistant (MR)	1200 mm	600 mm *
Fire Resistant (FR)	1200 mm	600 mm *
Fire and Moisture Resistant (FM)	1200 mm	600 mm *
Pro HD Board	1200 mm	600 mm *



* Cladding tiles on a single layer partition, requires a stud spacing to 400 mm c/c.



KW B111 Connection to solid wall





KW B111 Joint





Board Type	Cladding Thickness	Studs size ¹	Total Thickness	Max. Height ²	Approx. Weight	Sound ³ Insulation Rw	Insulation ⁴ Thickness	Fire Rating ⁵
Regular (RG)	2 x 12.5 mm	CW 50	100 mm	4.80 m	42.6 Kg/m ²	50 dB	50 mm	60 min.
Regular (RG)	2 x 15 mm	CW 50	110 mm	5.15 m	55.1 Kg/m ²	51 dB	50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	CW 50	100 mm	4.80 m	46.7 Kg/m ²	51 dB	50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	CW 50	110 mm	5.15 m	55.1 Kg/m ²	51 dB	50 mm	120 min.
Pro HD board	2 x 12.5 mm	CW 50	100 mm	4.80 m	54.7 Kg/m ²	53 dB	50 mm	90 min.
Pro HD board	2 x 15 mm	CW 50	110 mm	5.15 m	63 Kg/m ²	53 dB	50 mm	120 min.
Regular (RG)	2 x 12.5 mm	CW 70	120 mm	5.95 m	42.6 Kg/m ²	51 dB	50 mm	60 min.
Regular (RG)	2 x 15 mm	CW 70	130 mm	6.35 m	55.1 Kg/m ²	52 dB	50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	CW 70	120 mm	5.95 m	46.7 Kg/m ²	52 dB	50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	CW 70	130 mm	6.35 m	55.1 Kg/m ²	52 dB	50 mm	120 min.
Pro HD board	2 x 12.5 mm	CW 70	120 mm	5.95 m	54.7 Kg/m ²	54 dB	50 mm	90 min.
Pro HD board	2 x 15 mm	CW 70	130 mm	6.35 m	63 Kg/m ²	54 dB	50 mm	120 min.
Regular (RG)	2 x 12.5 mm	CW 92	142 mm	7.20 m	42.6 Kg/m ²	52 dB	50 mm	60 min.
Regular (RG)	2 x 15 mm	CW 92	152 mm	7.55 m	55.1 Kg/m ²	53 dB	50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	CW 92	142 mm	7.20 m	46.7 Kg/m ²	53 dB	50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	CW 92	152 mm	7.55 m	55.1 Kg/m ²	53 dB	50 mm	120 min.
Pro HD board	2 x 12.5 mm	CW 92	142 mm	7.20 m	54.7 Kg/m ²	55 dB	50 mm	90 min.
Pro HD board	2 x 15 mm	CW 92	152 mm	7.55 m	63 Kg/m ²	55 dB	50 mm	120 min.
Regular (RG)	2 x 12.5 mm	CW 146	196 mm	9.60 m	42.6 Kg/m ²	53 dB	50 mm	60 min.
Regular (RG)	2 x 15 mm	CW 146	206 mm	9.70 m	55.1 Kg/m ²	54 dB	50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	CW 146	196 mm	9.60 m	46.7 Kg/m ²	54 dB	50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	CW 146	206 mm	9.70 m	55.1 Kg/m ²	54 dB	50 mm	120 min.
Pro HD board	2 x 12.5 mm	CW 146	196 mm	9.60 m	54.7 Kg/m ²	56 dB	50 mm	90 min.
Pro HD board	2 x 15 mm	CW 146	206 mm	9.70 m	63 Kg/m ²	56 dB	50 mm	120 min.

- 1. Knauf CW profiles metal thickness 0.6 mm, flange 35 mm
- 2. Maximum heights calculated based on a limiting deflection I/240 on 200 Pa
- 3. Sound calculation based on ISO 140
- 4. Glass wool insulation, 16 Kg/m³
- 5. Fire rating according to BS-EN 476, part 4 & EN 1364-1

For wet areas, we recommend the use of Moisture Resistant Board. Replacing the Regular Board with Moisture Resistant Board, or replacing the Fire Resistant board with Fire and Moisture Resistant Board will have no influence on system's parameters. Other systems are also available. Should your requirements fall outside the above stated systems, please contact Knauf Technical Department at +971 4 3377170.



KW B112 CONNECTIONS AND JOINTS

Board Type	Board Width	Stud Spacing
Regular (RG)	1200 mm	600 mm
Moisture Resistant (MR)	1200 mm	600 mm
Fire Resistant (FR)	1200 mm	600 mm
Fire and Moisture Resistant (FM)	1200 mm	600 mm
Pro HD Board	1200 mm	600 mm





KW B112 Connection to solid wall





System based with metal profiles, 1200 mm outer to outer

KW B112 Joint





Board Type	Cladding Thickness	Studs size ¹	Total Thickness	Max. Height ²	Approx. Weight	Sound ³ Insulation Rw (Rw+Ctr)	Insulation ⁴ Thickness	Fire Rating ⁵
Regular (RG)	2 x 12.5 mm	2x CW 50	155 mm	4.70 m	47.6 Kg/m ²	58 dB	2 x 50 mm	60 min.
Regular (RG)	2 x 15 mm	2x CW 50	165 mm	5.15 m	60.1 Kg/m ²	59 (52) dB	2 x 50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	2x CW 50	155 mm	4.70 m	51.7 Kg/m ²	59 (52) dB	2 x 50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 50	165 mm	5.15 m	60.1 Kg/m ²	59 (52) dB	2 x 50 mm	120 min.
Pro HD board	2 x 12.5 mm	2x CW 50	155 mm	4.70 m	59 Kg/m ²	61 (54) dB	2 x 50 mm	90 min.
Pro HD board	2 x 15 mm	2x CW 50	165 mm	5.15 m	68 Kg/m ²	61 (54) dB	2 x 50 mm	120 min.
Regular (RG)	2 x 12 5 mm	2x CW 70	195 mm	5 50 m	47.6 Kg/m ²	60 dB	2 x 50 mm	60 min
Regular (RG)	2 x 15 mm	2x CW 70	205 mm	5.75 m	60 1 Kg/m ²	60 (53) dB	2 x 50 mm	60 min
Fire Resistant (FR)	2 x 12 5 mm	2x CW 70	195 mm	5.50 m	51 7 Kg/m ²	61 (54) dB	2 x 50 mm	90 min
Fire Resistant (FR)	2 x 15 mm	2x CW 70	205 mm	5 75 m	60.1 Kg/m ²	61 (54) dB	2 x 50 mm	120 min
Pro HD board	2 x 12 5 mm	2x CW 70	195 mm	5.50 m	59 Kg/m ²	63 (56) dB	2 x 50 mm	90 min
Pro HD board	2 x 15 mm	2x CW 70	205 mm	5.75 m	68 Ka/m ²	63 (56) dB	2 x 50 mm	120 min.
Regular (RG)	2 x 12.5 mm	2x CW 92	239 mm	6.50 m	47.6 Kg/m ²	61 dB	2 x 50 mm	60 min.
Regular (RG)	2 x 15 mm	2x CW 92	249 mm	6.75 m	60.1 Kg/m ²	61 (54) dB	2 x 50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	2x CW 92	239 mm	6.50 m	51.7 Kg/m ²	61 (54) dB	2 x 50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 92	249 mm	6.75 m	60.1 Kg/m ²	61 (54) dB	2 x 50 mm	120 min.
Pro HD board	2 x 12.5 mm	2x CW 92	239 mm	6.50 m	59 Kg/m ²	63 (56) dB	2 x 50 mm	90 min.
Pro HD board	2 x 15 mm	2x CW 92	249 mm	6.75 m	68 Kg/m ²	63 (56) dB	2 x 50 mm	120 min.

1. Knauf CW profiles metal thickness 0.6 mm, flange 35 mm

- 2. Maximum heights calculated based on a limiting deflection I/240 on 200 Pa / For higher wall check with technical team for bigger heights.
- 3. Sound calculation based on ISO 140
- 4. Glass wool insulation, 16 $\mbox{Kg/m}^3$
- 5. Fire rating according to BS-EN 476, part 4 & EN 1364-1

For wet areas, we recommend the use of Moisture Resistant Board. Replacing the Regular Board with Moisture Resistant Board, or replacing the Fire Resistant board with Fire and Moisture Resistant Board will have no influence on system's parameters. Other systems are also available. Should your requirements fall outside the above stated systems, please contact Knauf Technical Department at +971 4 3377170.



KW B115 CONNECTIONS AND JOINTS

Board Type	Board Width	Stud Spacing
Regular (RG)	1200 mm	600 mm
Moisture Resistant (MR)	1200 mm	600 mm
Fire Resistant (FR)	1200 mm	600 mm
Fire and Moisture Resistant (FM)	1200 mm	600 mm
Pro HD Board	1200 mm	600 mm





KW B115 Connection to solid wall





KW B115 Joint





Board Type	Cladding Thickness	Studs size ¹	Total Thickness	Max. Height ²	Approx. Weight	Sound ³ Insulation Rw (Rw+Ctr)	Insulation ⁴ Thickness	Fire Rating ⁵
Regular (RG)	2 x 12.5 mm	2x CW 50	300-460 mm	4.05 m	47.6 Ka/m ²	≥ 62 (55) dB	2 x 50 mm	60 min.
Regular (RG)	2 x 15 mm	2x CW 50	300-460 mm	4.05 m	60.1 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	2x CW 50	300-460 mm	4.05 m	51.7 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 50	300-460 mm	4.05 m	60.1 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	120 min.
Pro HD board	2 x 12.5 mm	2x CW 50	300-460 mm	4.05 m	59 Ka/m ²	≥ 64 (57) dB	2 x 50 mm	90 min.
Pro HD board	2 x 15 mm	2x CW 50	300-460 mm	4.05 m	68 Ka/m ²	≥ 64 (57) dB	2 x 50 mm	120 min.
					J. J. J.			
Regular (RG)	2 x 12.5 mm	2x CW 70	300-460 mm	5.50 m	47.6 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	60 min.
Regular (RG)	2 x 15 mm	2x CW 70	300-460 mm	5.50 m	60.1 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	2x CW 70	300-460 mm	5.50 m	51.7 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 70	300-460 mm	5.50 m	60.1 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	120 min.
Pro HD board	2 x 12.5 mm	2x CW 70	300-460 mm	5.50 m	59 Kg/m ²	≥ 64 (57) dB	2 x 50 mm	90 min.
Pro HD board	2 x 15 mm	2x CW 70	300-460 mm	5.50 m	68 Kg/m ²	≥ 64 (57) dB	2 x 50 mm	120 min.
					2			
Regular (RG)	2 x 12.5 mm	2x CW 92	300-460 mm	6.95 m	47.6 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	60 min.
Regular (RG)	2 x 15 mm	2x CW 92	300-460 mm	6.95 m	60.1 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	60 min.
Fire Resistant (FR)	2 x 12.5 mm	2x CW 92	300-460 mm	6.95 m	51.7 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	90 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 92	300-460 mm	6.95 m	60.1 Kg/m ²	≥ 62 (55) dB	2 x 50 mm	120 min.
Pro HD board	2 x 12.5 mm	2x CW 92	300-460 mm	6.95 m	59 Kg/m ²	≥ 64 (57) dB	2 x 50 mm	90 min.
Pro HD board	2 x 15 mm	2x CW 92	300-460 mm	6.95 m	68 Kg/m ²	≥ 64 (57) dB	2 x 50 mm	120 min.

1. Knauf CW profiles metal thickness 0.6 mm, flange 35 mm

- 2. Maximum heights calculated based on a limiting deflection I/240 on 200 Pa / For higher wall check with technical team for bigger heights.
- 3. Sound calculation based on ISO 140
- 4. Glass wool insulation, 16 Kg/m³
- 5. Fire rating according to BS-EN 476, part 4 & EN 1364-1

For wet areas, we recommend the use of Moisture Resistant Board. Replacing the Regular Board with Moisture Resistant Board, or replacing the Fire Resistant board with Fire and Moisture Resistant Board will have no influence on system's parameters. Other systems are also available. Should your requirements fall outside the above stated systems, please contact Knauf Technical Department at +971 4 3377170.



KW B116 CONNECTIONS AND JOINTS

Board Type	Board Width	Stud Spacing
Regular (RG)	1200 mm	600 mm
Moisture Resistant (MR)	1200 mm	600 mm
Fire Resistant (FR)	1200 mm	600 mm
Fire and Moisture Resistant (FM)	1200 mm	600 mm
Pro HD Board	1200 mm	600 mm



ELEVATION SOFFIT Sof



KW B116 Connection to solid wall



KW B116 Joint



T Junction and other wall connection







PLAN Knauf Gypsum Board Knauf 'UW' Runner Knauf 'CW' Stud Knauf Orywall Screw Knauf Corner Tape

KW B112 T Junction - alternative



KW B116 Connection to wall





Corners



KW B115 Corner detail



KW B112 Corner detail



KW B112 Angled corner



Connection with other assemblies



Control Joint

Install control joints

- n At maximum 15 m intervals
- n At all control / expansion joints present in the structure
- n At any change in the substrate material





Deflection head

- Knauf drywall systems can provide a deflection up to +10 mm using the standard detail and standard flange UW track
- For higher deflection requirements, up to 25 mm non fire rated and up to 20 mm fire rated, use the deep flange UW track (60 mm)



KW B115 Deflection Head



KW B116 Deflection Head



Training





The Key Advantages of Knauf Training:

- n Improve efficiency
- n Reduce wastage of materials
- n Learn proper application methods
- n Faster installation time
- n Practice in the use of high-end drywall tools
- n Ensure successful delivery of projects

Knauf Training academy has purposely been developed to offer a variety of courses that provide practical training on the design and construction of plasterboard systems.

Training also improves the safety on site and help companies complete projects more efficiently whilst taking advantage of learning Hands-on experience whilst under the guidance of a Knauf Training Specialist.

The courses that we offer include partitions, wall linings, shaftwalls and suspended ceilings. Training is also provided on tape & jointing (hand application).

The main aim of these courses is to provide knowledge and an understanding on the installation and the key purpose of Knauf drywall systems. Also we want to ensure that all trainees have full confidence in their ability when either proposing a Knauf system or constructing a system on-site. Knauf Training will also give you a better understanding of the products that we offer in the market, and allow you to understand what products are needed to assemble a Knauf system correctly and professionally. With the growing pressure & expectations of developers for fast and professionally constructed work, you can be sure with the knowledge & guidance of Knauf expert trainers you will be on the road to perfection.



Upon completion of any of the Knauf training courses a Knauf training attendance/recognition Certificate is awarded. This certificate gives you an edge over other competitors, as it is an endorsement that you have been instructed in the best practice of the industry, by the best in the industry. This in-turn gives us the confidence to then recommend you to future developers.

Get your TRAINING RECOGNITION CERTIFICATE today and keep your company ahead of the competition REMEMBER TO BE THE BEST YOU NEED TO LEARN FROM THE BEST

Installation steps

1

3

After fixing the head track, the floor track should be positioned by using a vertical stud and a laser / spirit level.



Snip and bend back Knauf 'U' Channel for extra rigidity around door





Insert timber battens within Knauf 'C'Studs to provide fixing for door frame (if required).



6 Snip and bend back Knauf Deep Flange (U' Channel to form the door frame.

Twisting Knauf 'C' Stud

into position.



Fixing Knauf Deep Flange 'U'
 Channel to form perimeter framing



8 Fixing Knauf Plasterboard to the completed framework.



General requirements

Control joints

- n At maximum 15 m
- n At all control / expansion joints present in the structure
- n At any change in the substrate material

Jointing

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

Connections sealing

n For acoustic requirements, seal the perimeter connections with acoustical sealant

Fire penetration

- n Use approved fire penetration details and sealants.
- n M&E cabling can be inserted through Knauf CW studs
- n Insulation materials such as stone wool, glass wool, EPS should be planted within the CW studs.
- n 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
- n Power sockets, switch sockets, splitter sockets etc. are allowed to be installed at any position.
- n In systems with sound requirements, do not install power sockets opposite to each other
- n 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.
- n Use tested and certificated putty pads for sockets in fire rated systems.







Knauf CW Profile

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







Cutting and processing the boards

- n Knauf Boards shall be cut by scoring and breaking or by sawing
- n When cutting by scoring, the face paper shall be cut with a utility knife
- n Knauf boards shall be broken by snapping boards in the reverse direction, then cutting the back paper with a utility knife
- n Cut edges should be smoothed with Knauf Beveler / Rasp Combo to obtain neat joints when installed
- n 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

Studs positioning



Positioning the tracks and perimeter studs

- n Mark location of partitions accurately on concrete structure with stringline / laser
- Use Knauf Sealing Tape or Acoustical Sealant under Knauf CW studs and UW Tracks forming the perimeter for acoustic rated partitions use acoustical sealant or fire & acoustical sealant
- n Bottom and top track shall be aligned accurately at the floor and ceiling
- Fix the bottom UW track and top track and CW studs on perimeter at maximum 600 mm centers for non fire rated partitions (at 500 mm center for fire rated partitions) and maximum 50 mm from end of track



Studs positioning - splicing of studs





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

Vertical extension of studs (splicing)

Stud size	Overlap u	Calculation example:
CW 50	≥ 50 cm	Option 1 CW 50 – overlap 50 cm
CW 70	≥ 70 cm	Option 2 CW 50 – additional piece CW 50, 100 cm
CW 92	≥ 92 cm	Option 3 CW 50 – additional piece of UW 50, 100 cm
CW 146	≥ 146 cm	



- n Knauf partition standard deflection detail allows for 10 mm positive / negative deflection
- n For higher deflection, use the deflection head
- n Space studs at max. 600 mm centers. For partitions where loads are going to be applied, please follow our details for nogging
- n Friction fit Knauf CW Studs vertically into Knauf UW Tracks with maximum spacing of 600 mm, this will allow for adjustment when boarding
- Extra studs should be provided at openings, corners and stop ends. Studs at corners, stop ends, T junctions and openings should be fixed to floor and ceiling channels by metal framing screws or pierce punching



Fixing loads / Cantilever loads



Crowd pressure and loading capacity heavyweight anchorage

Min. Stud Size	Cladding Thickness	Performance Achieved				
		Crowd Pressure	Heavyweight Anchorage - wash basin	Heavyweight Anchorage - wash cupboard		
CW 50 x 35 x 0.6 mm	1 x 12.5 mm	1.5 kN/m	1500 N*	2000 N*		
CW 50 x 35 x 0.6 mm	2 x 12.5 mm	3.0 kN/m	2500 N*	5000 N*		

* K543 Knauf Hartmut with M5 x 60 mm screw with additional 18 mm thick plywood backing

** K543 Knauf Hartmut with M5 x 75 mm screw with additional 18 mm thick plywood backing

Loading capacity lightweight anchorage

Cladding Thickness	Driva Plus Self Drilling Metal Plug	Cavity Fixings	Knauf Hartmut	
min. 12.5 mm 7 kg		12 Kg	35 Kg	
min. 2 x 12.5 mm > 7 Kg		> 12 Kg	55 Kg	

Door openings

- n Use Boxed Knauf CW Studs for forming door frames (up to 60 kg)
- n Locate a vertical stud within 100 mm of door frame for reinforcement
- n UW Channel used for floor track should be extended min 300 mm and returned and fixed to the CW door stud
- n Additional fixings should be included when fixing the floor channel, 150 mm back from the opening



Doors Framing / Door opening with CW studs





Door weight	No. of layers on each side	Profile	Load class	
Up to 60 kg	2 + 2	Min. CW 50 x 35 x 0.6 mm	Severe duty 100 slams	
Up to 100 kg	2 + 2	Min. CW 70 x 35 x 0.6 mm	Minimum duty 20 slams	

Knauf CW-Stud Interlaced as boxed with timber (by others)



Window openings

Window Opening Frame



Cladding of boards



Fixing

- n Knauf Boards should be fixed vertically on the metal stud framework
- n Boards should never touch the floor. Approximately 1.5cm of gap should be left at the floor connection when fixing boards
- n The gap should be filled with sealant or mastic
- Vertical edges should be staggered by 600mm. Horizontal edges should be staggered by at least 300 mm.
 Both joints (horizontal and vertical) on opposite side of partition should be staggered
- n For multi-layer cladding, second layer should be staggered both horizontally and vertically

Connections sealing

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



Boards fixing

Screw location and penetration depth

- n Drive screws to just below the sheet surface, taking care not to break the paper linerboard.
- n Screw heads must be approx. 1 mm inside the board surface
- n Screws should be 9.5 mm away from joints
- n Screws should penetrate studs by min. 9 mm



Board thickness	First Layer	Second Layer
12.5 mm	TN 3.9 x 25 mm	TN 3.9 x 35 mm
15 mm	TN 3.9 x 25 mm	TN 3.9 x 45 mm

Maximum screw spacing - framing at 600 mm center to center

Number of Layers	First Layer	Second Layer
First Layer	300 mm	-
Second Layer	300 mm	300 mm



- ${\bf n}~$ Do not apply board joints on door frame profiles
- ${\bf n}$ $% \left({{\bf n}} \right)$ Joints should be staggered on both sides

Curved partitions

Bending radius - Knauf boards

Board thickness	Bend radius r in longitudinal direction		Concave - inner arch	Convex - outer arch
d mm	Dry bending mm	Wet bending mm	to be comp.	the state of the s
6 mm	1500 mm	≥ 800 mm	Se tace side es	S-1-0
8 mm	1900 mm	≥ 800 mm		be compre
12.5 mm	≥ 2750 mm	≥ 1000 mm		face side

n Other Knauf boards / bending radius on request

Curved partitions



Knauf UW track cut and bent

- n Connect the CW Stud with Knauf metal profile using a crimp connection
- n CW Stud spacing: 150 mm (external radius)
- n Knauf fastener spacing: ≤ 300 mm

Wet bending

- Put the cut-to-length Knauf boards on a grid made of channels or similar with the side to be compressed on top (to ensure that excess water can drip off)
- 2. Perforate the board laterally and longitudinally with a spiked roller
- Wet the board by spraying or use a lambskin roller and allow it to settle for a few minutes. Repeat the process until saturation is achieved and allow the excessive water to drain
- Place the board on the prepared template, bend and fix the board with adhesive tape and allow to dry



Dry bending

- 1. Slowly bend the Knauf board laterally over the stud partition. Pre-bending on a template is recommended
- 2. Fix with Drywall Screws continuously following the bending direction



Joint treatment

- n 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.
- n 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).
- n Once third coat has dried, surface should be sanded and smoothed
- n Knauf Corner Bead should be used for exterior corner reinforcements
- n Alternatively Knauf Alux Corner Tape can be used to reinforce interior or exterior corners









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, non woven, textile and synthetic wallpapers) Ceramic tiles*, plasters (full surface thin plaster coatings) Coatings (emulsion based paints, emulsion based silicate paints)

Unsuitable coatings

Alkaline 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.

Systems components for partition

Boards

Regular Gypsum Board

Knauf Regular Gypsum Boards with an ivory paper face ideally suited to receive a plaster finish or for direct decorations.



		Dimensions (mm	1)		Pallet details	
2	Thickness	Width	Length	No. of boards	Surface (m ²)	Tonnes (approx)
	12.5	1200	2400 / 3000	80 / 68	230.4 / 244.8	2.20 / 2.38
	15.0	1200	2400 / 3000	68 / 56	195.84 / 210.6	2.20 / 2.38

Moisture Resistant

Knauf Moisture Resistant Gypsum Board (MR) is a high performance gypsum board for use in internal areas on high humidity.



Dimensions (mm)			Pallet details		
Thickness	Width	Length	No. of boards	Surface (m ²)	Tonnes (approx)
12.5	1200	2400 / 3000	80 / 68	230.4 / 244.8	2.23 / 2.00
15.0	1200	2400 / 3000	64 / 56	184.32 / 210.6	2.37 / 2.46

No. of boards

80 / 68

68 / 56

Pallet details

Surface (m²)

230.4 / 244.8

194.84 / 210.6

Tonnes (approx)

2.42 / 2.68

2.56 / 2.76

Fire Resistant

Knauf Fire Resistant Gypsum Boards (FR) are gypsum wallboards specially designed to offer superior fire resistance performance when used in drywall partitions, shaftwalls ceilings and lining systems

Length

2400 / 3000

2400 / 3000

Dimensions (mm)

Width

1200

1200

Thickness

12.5

15.0



Fire and Moisture Resistant

Knauf Fire & Moisture Resistant Gypsum Boards (FM) are gypsum wallboards with high fire protection performance manufactured specifically for use in areas exposed to moisture and humidity.



Dimensions (mm)				Pallet details	
Thickness	Width	Length	No. of boards	Surface (m ²)	Tonnes (approx)
12.5	1200	2400 / 3000	80 / 68	213.12 / 216.0	2.42 / 2.68
15.0	1200	2400 / 3000	68 / 56	167.04 / 172.8	2.25 / 2.43

Pro HD Board

Knauf Pro HD is a high performance gypsum board providing durability, impact, fire and moisture resistance. With its specially toughened high density core, it provides excellent load capacity and high acoustic performance, ideal for high traffic areas.



Dimensions (mm)				Pallet details	
Thickness	Width	Length	No. of boards	Surface (m ²)	Tonnes (approx)
12.5	1200	2400 / 3000	56	161.28	2.03
15.0	1200	2400 / 3000	56	161.28	2.44

Flexi Board

Knauf Flexi Board are designed to construct curved surfaces and suitable to receive a plaster finish or direct decoration.



Dimensions (mm)		Pallet details			
Thickness	Width	Length	No. of boards	Surface (m ²)	Tonnes (approx)
6	1200	3000	120	432	1.82
8	1200	2400	112	322.56	2.27

Profiles

Knauf CW studs

Galvanized lightweight steel sections, zinc coating minimum Z100.

Dimensions (mm)					
Thickness Web Flange Le					
0.6	50 / 70 / 92 / 146	35	3000		

Knauf UW runners

Galvanized lightweight steel sections, zinc coating minimum Z100. To be used as head and floor track for partitions.

Dimensions (mm)			
Thickness	Web	Flange	Length
0.6	50 / 70 / 92 / 146	32	3000
0.6	50 / 70 / 92 / 146	60	3000

* Special dimension and sizes are available upon request for orders above 10,000 linear meters.

Accessories

Knauf Acoustical Sealant Knauf Acoustical Sealant is a pasty dispersion bound compound for the use of high performance fire and acoustic rated partition systems.

Knauf Plastic and plug screw

Knauf Plastic Plugs Screw is to be used together with Plastic Plug for fixing the perimeter runners and studs on solid walls.



Hammer Fixings

Hammer Fixings are light duty fixings which have a special thread lock design that prevents pre-expansion 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.



⁽Sizes 6 x 40 mm and 8 x 45 mm)





Knauf Sealing Tape

Knauf Sealing Tape is a closed foam tape, self adhesive on one side, permanently flexible. It is recommended for the connection of flanking constructional components with the backside of the runners in drywall partitions. Width 50 / 75 mm, Length 25 m

Knauf Joint Tape

For reinforcing joints. Width 50 mm. Length 90 m

Special Textile Fiber Glass Joint Tape

Special Textile Fiber Glass Joint Tape is a premium joint tape which performs at the best level to prevent cracks and to provide the best finishing.

Knauf Readygips Joint filler

Readymixed compound for joint filling. Bucket, 28 kg. Buckets Per Pallet : 33

Knauf Putty Pad

Fire and acoustical rated Putty Pad















PVC Control Joint (Movement Bead)

Designed to provide for movement to accommodate expansion and contraction caused by initial stucco shrinkage and minor thermal movement.

PVC Shadowline Trim

PVC Shadowing trim is preferred especially for aesthetic drywall finishing and it is used to create a shadow line which minimizes building imperfections.

Edge Bead PVC 13mm

The stop bead can be clipped on the gypsum board directly without using any fixings in order to provide perfect finishing. It can be fixed either vertically or horizontally.

Edge Bead - Micro

Edge finishing and protection for gypsum boards with fine expanded metal wings provides superior keying to the plasters, which eliminates shadowing and avoids cracking.

Corner Bead - Micro

Corner finishing and protection for gypsum boards with fine expanded metal wings provides superior keying to the plasters, which eliminates shadowing and avoiding cracking.

Knauf Access Panels

Access panels for partition walls and ceilings













Summary of test report and certifications

Fire tests / Certificates			
System type	Fire rating	Fire rating	Test report / Certificate no.
KW B112 / B115 / B116	60 min.	BS EN 476	Test report 09044691a– MKS – 02 Cert. No. ITS09/02/02
KW B112	60 min.	EN 1363. Part 1,2, EN 1364 Part 1	Test Report NC31
KW B112 / B115 / B116	90 min.	BS EN 476	Test report 09044691b- MKS - 02 Cert. No. ITS09/02/0 2
KW B112 / B115 / B116	120 min.	BS EN 476	Test report 09044691c-MKS - 02 Cert. No. ITS09/02/0 3

Fire rated partitions are tested up to 3.6 m depending on achievable fire resistance.

Sound tests / Certificates		
System type	Standard	Test report / Certificate no.
KW B111 / B112 / B115	BS EN ISO 140/3	Cert. no. 130409/KNAUF/L04/Rev0/ALD
KW B111 / B112 / B115	BS EN ISO 140/3	Cert. no. 2011612 / 718 A / R2 / MC
KW B116	BS EN ISO 140/3	Cert no. 130214/KNAUF/L01/Rev 0/ALD

Structural heights		
System type	Standard	Test report / Certificate no.
KW B111 / B112 / B115	BS EN	Test report WQ 11 03385, 001- 010

Loads		
System type	Standard	Test report / Certificate no.
KW B111 / B112 / B115	BS EN	Test report WQ 11 03385, DLR07 48/66/68/77/81/89 /93

Company's Certification

Estidama and LEED compliant products

As per Estidama & LEED requirements, our products have been tested for chemical materials banned or required to be in a very low concentration in third party well known laboratories.

Asbestos

Our products are free from asbestos. Boards produced in Knauf factory in Ras al Khaimah have been tested for asbestos content, no asbestos was detected. Complies with international requirements regulating this substance.

Formaldehyde

The boards produced in Knauf factory in Ras al Khaimah have been tested on DIN EN ISO 16009 for formaldehyde emissions. Maximum recorded concentration levels on 30 days testing were $16\mu g / m3 (0.016 mg/m3) - below the limits required in international standards.$

VOC

Knauf joint compound Readygips has been tested for VOC (volatile organic compounds). Detected amount: 0.14 g/l is below the limits required in international standards.

Regional materials

On a range of 500 miles from factory and quarry location, our boards can provide points for regional materials mentioned in different evaluation criteria (LEED, Estidama, etc.)

ISO certifications

Knauf factory from Ras al Khaimah is holding ISO 9001:2008 Quality Management System certification since 2011. Recently Knauf has been certified on ISO 14001: 2004 and BHS OHSAS 18001:2007

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Certificate of Registration	CERTIFICATE	GERTIFICATE
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United Arab Emirates	in meaning and the birth Line products, it is banky partial that	instruments with TOV Minister East procedures, this investiga without that
Holds Certificate No: FM 577441	KNAUF LLC P.O. Box 172871, Dubal, United Arab Entirates	KNAUF LLC PO. Box 112871, Dubis, United Arab Emirates
and operates a Quality Management System which complies with the requirements of ISO 9001:2008 for the following scope:	With Lazzlens at	With LocaSons at KOALIF RAK FZE, P.O. Bus S2006, Res Af Knolmain, Urstani Arab Emirates
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Environment Certification

For outstanding performances in water and energy management, our factory has been awarded the Environmental Performance Certificate from the Ministry of Environment and Water.

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Ministry of Environment & Water awards the Environmental Performance Certificate to KNAUP RAK Factroy, Ras Al Khaimah - Khor Khwair, for its outstanding environmental performance during 2012 and its efforts to assure sustainable environment.	تسبيح وزارة البيب في طليب مسيادة الأداء البي في لمنع كنسوف واعد الخبيب م رأس الحينة – خور خلور بالأدانه البيشي المتميز لعدام 2012 وحرص على ضمان بينة مستدامة . للمقام MTAL Mata
Dr. Rashid Ahmed Bin Fahad Minister of Environment & Water	Certificate No. :2012/033



Civil Defense Approval

Civil Defense Approval

Knauf has Civil Defense Approval from RAK Civil Defense and Qatar Civil Defense for factory and systems. Our fire rated systems are not only certified with accredited international bodies, but also recognized by local authorities









We reserve the right to amend technical specifications without notice. The current edition applies. Our guarantee applies only to the defect-free state of our materials. The structural, static and physical characteristics of Knauf systems can only be ensured where only Knauf system components or products recommended by Knauf are used. Consumption, quantity and design specifications are typical figures, which may not be transferable under different circumstances. All rights reserved. Changes, reproductions and photo-mechanical and electronic repetition, even in part, require the specific permission of Knauf LLC, P.O.Box 112871, Dubai, United Arab Emirates.



Knauf Head Office

P.O.Box 112871, Dubai, UAE Tel: +971 4 337 7170 Fax: +971 4 334 9659 info@knauf.ae

Knauf Qatar Branch P.O.Box 27111 Doha, State of Qatar Tel: +974 4 452 8191 Fax: +974 4 452 8181

Knauf RAK Plant P.O.Box 50006 Ras Al Khaimah, UAE Tel: +971 7 221 5300 Fax: +971 7 221 5301

