

**KNAUF**

**كناوف**



2021

# **EN-BS DRYWALL PARTITIONS**



## 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,

Knauf is one of the leading voices in sourcing locally and manufacturing products that are truly “Made in UAE” as well as enabling collaboration with the major industry leaders towards technological advancements in manufacturing and logistics. This has made us fully equipped to efficiently cater the needs, wants and preferences of our valued customers and clients who over time have become a part of our big family.

Our commitment towards building environmentally responsible and economically sustainable products locally have been applauded, recognized and certified by esteemed UAE government authorities such as Ministry of Interiors, Civil Defense, Central Laboratory, Quality and Conformity Council.

Headquartered in Dubai, UAE, Knauf shows its customer service excellence and commitment in the Middle East and India. We ensure that the demand meets the supply, the first time and every time by utilizing our full range of flexibility and potential of our production facilities, human resources, technical expertise, logistics and cutting edge digitalisation, thereby facilitating rapid growth and development in the region.

Here is a highlight of some of Knauf’s products, systems and services:

- Gypsum based high performance drywall building materials, system and accessories.
- ASTM certified products & systems – Ceiling, Partition, Wall Lining and Cinema System.
- Knauf Aquapanel cement boards for interior, exterior and universal usages.
- Knauf Aquapanel Exterior Systems (Exterior walls, cladding and ceiling).
- Knauf Heraklith’s acoustic designs for Interior and Exterior in ceiling & partition systems.
- Knauf Integral’s Knauf GIFA Floor, sheet-paneled access floors systems.
- Fire and acoustic rated sealants and materials.
- Multi- Purpose Joint compounds.
- Engineering and technical consultancy for architects, consultants, etc.
- Knauf Training Academy: Hands-on training.

Knauf’s high performing, innovative systems are fast and easy to install and are manufactured to meet ASTM, EN-BS and DIN Standards, to meet any client requirements. Our dedicated Training Academy is committed to making sure that all our end users are up to date of our system.

Quality, sustainability, health and safety are central to our vision, actions towards our people and the local communities ensuring every product that comes out of the line is rigorously tested, certified, approved and socio- environmentally responsible while producing them. Our ISO 9001 (Quality Management System), 14001 (Health, Environment and Safety), 45001OHSAS) and 50001 (Energy Management) certifications are a testament to our commitment to the same.

Our four dimensional core values called K-Values: Partnership, Commitment, Entrepreneurship and Menschlichkeit (“the human touch” in German) are the key drivers of our camaraderie and operational excellence throughout our multi-cultural organizational structure. It is this passion that subsequently reflects in our products and customer service excellence as well.

Thank you for being part of this big family and Let’s Build the Future together.

Amer Bin Ahmed  
Managing Director  
Knauf Middle East & India

Global Board of Director

Board of Director

Intertek Certified

ISO Certified



# 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 of construction and end user benefits to the sector you are designing for.



Schools, Universities,  
Training Facilities, Colleges

Cinemas, Theatres,  
Auditoriums





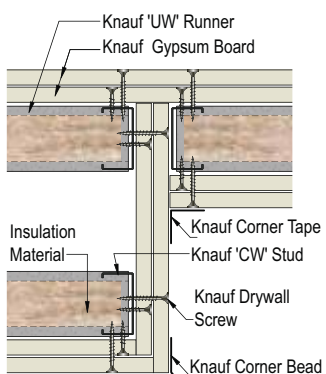
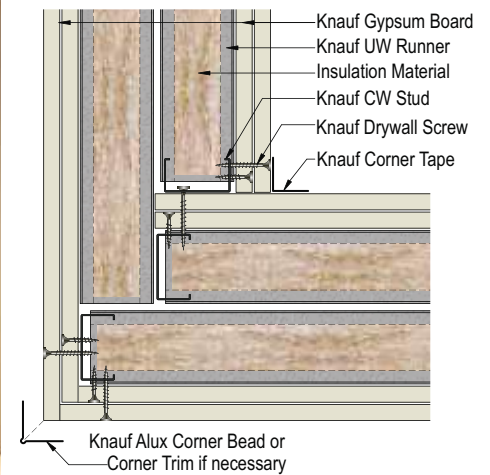
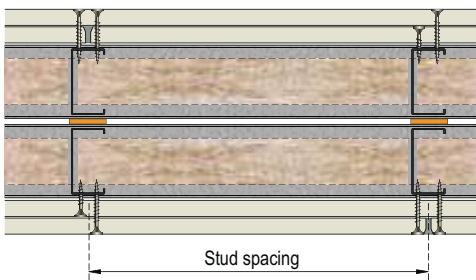
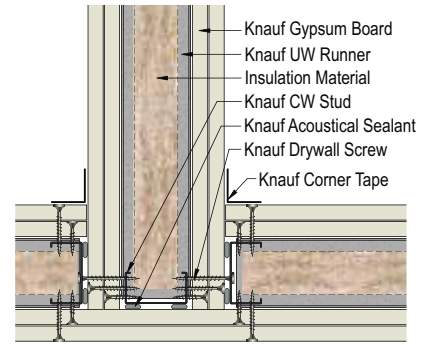
Hospitals, Clinics  
Offices



## 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

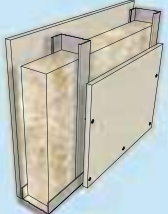

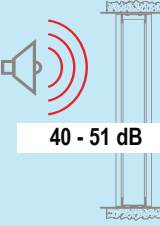
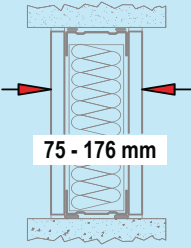
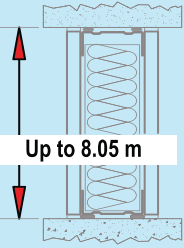
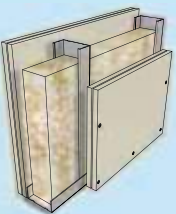
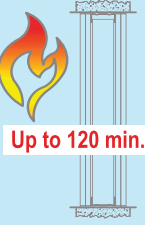
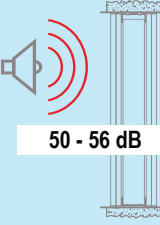
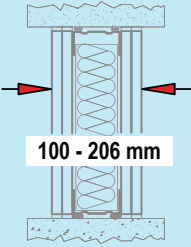
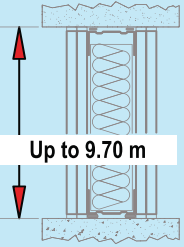
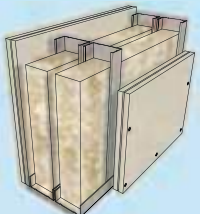

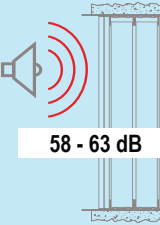
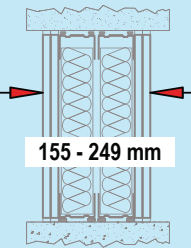
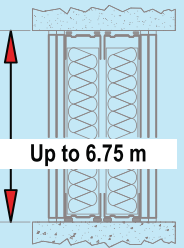
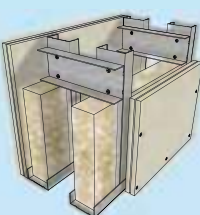

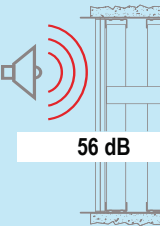
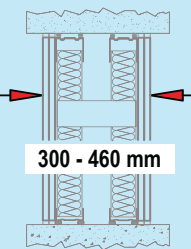
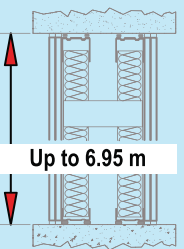
## SYSTEMS DESIGNED TO MEET BUILDING REQUIREMENTS

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

- Fire protection
  - Moisture Resistance
- Sound insulation
  - Heavy duty walls
- High partitions
  - Aesthetics

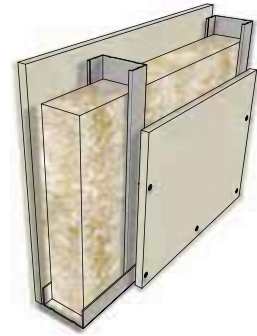
These systems are composed of gypsum boards and metal framing, joint compounds and other materials such as joint tapes, sealants, screws and insulation.

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. Acoustic values given for the systems within this manual are based on Marshall Day prediction. 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
<b>KW B111</b> 	<ul style="list-style-type: none"> <li>■ Economical solution</li> <li>■ Fast space division</li> </ul>	 <b>Up to 60 min.</b>	 <b>40 - 51 dB</b>	 <b>75 - 176 mm</b>	 <b>Up to 8.05 m</b>
<b>KW B112</b> 	<ul style="list-style-type: none"> <li>■ Optimum solution</li> <li>■ Meets most design criteria</li> <li>■ Small footprint</li> <li>■ High fire resistance</li> </ul>	 <b>Up to 120 min.</b>	 <b>50 - 56 dB</b>	 <b>100 - 206 mm</b>	 <b>Up to 9.70 m</b>
<b>KW B115</b> 	<ul style="list-style-type: none"> <li>■ High acoustic performances</li> <li>■ High fire resistance</li> <li>■ Optimum for separation walls</li> </ul>	 <b>Up to 120 min.</b>	 <b>58 - 63 dB</b>	 <b>155 - 249 mm</b>	 <b>Up to 6.75 m</b>
<b>KW B116</b> 	<ul style="list-style-type: none"> <li>■ Very good acoustic performance</li> <li>■ Accommodates large service runs</li> <li>■ High fire resistance</li> <li>■ Adjustable footprint</li> </ul>	 <b>Up to 120 min.</b>	 <b>56 dB</b>	 <b>300 - 460 mm</b>	 <b>Up to 6.95 m</b>

# KW B111

## SYSTEMS BUILD-UP



Board Type	Cladding Thickness	Studs size <sup>1</sup>	Total Thickness	Max. Height <sup>2</sup>	Approx. Weight	Sound <sup>3</sup> Insulation Rw	Insulation <sup>4</sup> Thickness	Fire Rating <sup>5</sup>
Regular (RG)	1 x 12.5 mm	CW 50	75 mm	3.10 m	23 Kg/m <sup>2</sup>	40 dB	50 mm	-
Regular (RG)	1 x 15 mm	CW 50	80 mm	3.35 m	30 Kg/m <sup>2</sup>	42 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 50	75 mm	3.10 m	25.8 Kg/m <sup>2</sup>	42 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 50	80 mm	3.35 m	30 Kg/m <sup>2</sup>	42 dB	50 mm	60 min.
Pro HD board	1 x 12.5 mm	CW 50	75 mm	3.10 m	29.8 Kg/m <sup>2</sup>	44 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 50	80 mm	3.35 m	34 Kg/m <sup>2</sup>	44 dB	50 mm	60 min.
Regular (RG)	1 x 12.5 mm	CW 70	95 mm	4.30 m	25 Kg/m <sup>2</sup>	41 dB	50 mm	-
Regular (RG)	1 x 15 mm	CW 70	100 mm	4.35 m	30 Kg/m <sup>2</sup>	44 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 70	95 mm	4.30 m	25.8 Kg/m <sup>2</sup>	44 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 70	100 mm	4.35 m	30 Kg/m <sup>2</sup>	44 dB	50 mm	60 min.
Pro HD board	1 x 12.5 mm	CW 70	95 mm	4.30 m	29.8 Kg/m <sup>2</sup>	45 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 70	100 mm	4.35 m	34 Kg/m <sup>2</sup>	46 dB	50 mm	60 min.
Regular (RG)	1 x 12.5 mm	CW 92	117 mm	5.10 m	25 Kg/m <sup>2</sup>	43 dB	50 mm	-
Regular (RG)	1 x 15 mm	CW 92	122 mm	5.50 m	30 Kg/m <sup>2</sup>	46 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 92	117 mm	5.10 m	25.8 Kg/m <sup>2</sup>	45 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 92	122 mm	5.50 m	30 Kg/m <sup>2</sup>	46 dB	50 mm	60 min.
Pro HD board	1 x 12.5 mm	CW 92	117 mm	5.10 m	29.8 Kg/m <sup>2</sup>	47 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 92	122 mm	5.50 m	34 Kg/m <sup>2</sup>	48 dB	50 mm	60 min.
Regular (RG)	1 x 12.5 mm	CW 146	171 mm	7.70 m	25 Kg/m <sup>2</sup>	45 dB	50 mm	-
Regular (RG)	1 x 15 mm	CW 146	176 mm	8.05 m	30 Kg/m <sup>2</sup>	49 dB	50 mm	-
Fire Resistant (FR)	1 x 12.5 mm	CW 146	171 mm	7.70 m	25.8 Kg/m <sup>2</sup>	47 dB	50 mm	-
Fire Resistant (FR)	1 x 15 mm	CW 146	176 mm	8.05 m	30 Kg/m <sup>2</sup>	49 dB	50 mm	60 min.
Pro HD board	1 x 12.5 mm	CW 146	171 mm	7.70 m	29.8 Kg/m <sup>2</sup>	50 dB	50 mm	-
Pro HD board	1 x 15 mm	CW 146	176 mm	8.05 m	34 Kg/m <sup>2</sup>	51 dB	50 mm	60 min.

1. Knauf CW Profile metal thickness 0.6mm, flange 35 mm.
2. Maximum heights calculated based on a limiting deflection  $l/240$  under 200 Pa load application.
3. Sound calculation based on ISO 140.
4. Glass wool insulation, 16 Kg/m<sup>3</sup>
5. Fire rating according to BS-EN 476, part 4 & EN 1364-1.

For wet areas, use of Knauf Moisture Resistant Board is recommended. Replacing Knauf Regular Board with Knauf Moisture Resistant Board, or replacing Knauf Fire Resistant Board with Knauf 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 on 00971 4 3377170.

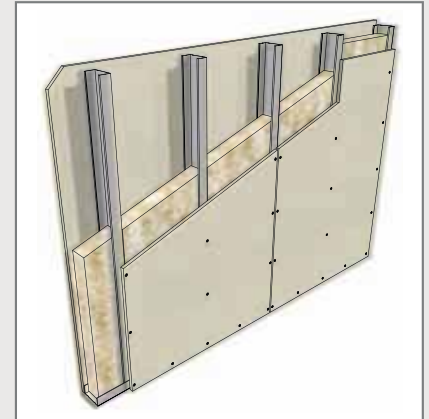


# KW B111

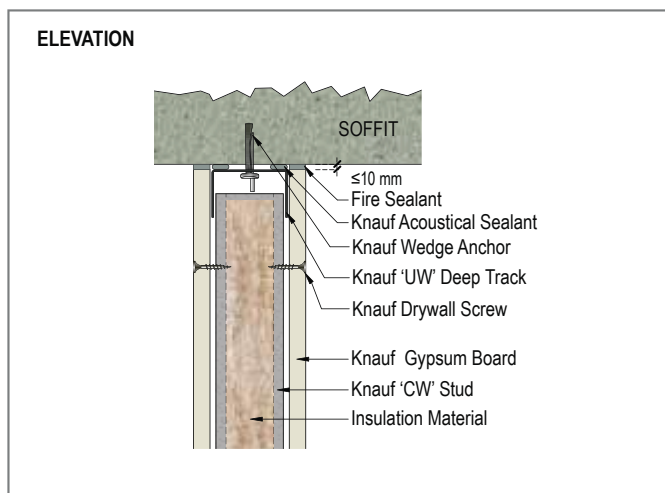
## CONNECTIONS AND JOINTS

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 *

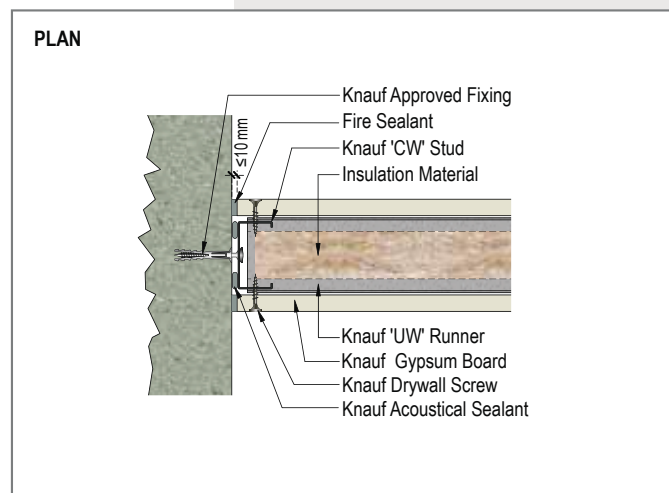
\* Cladding tiles on a single layer partition, requires a stud spacing to 400 mm c/c.



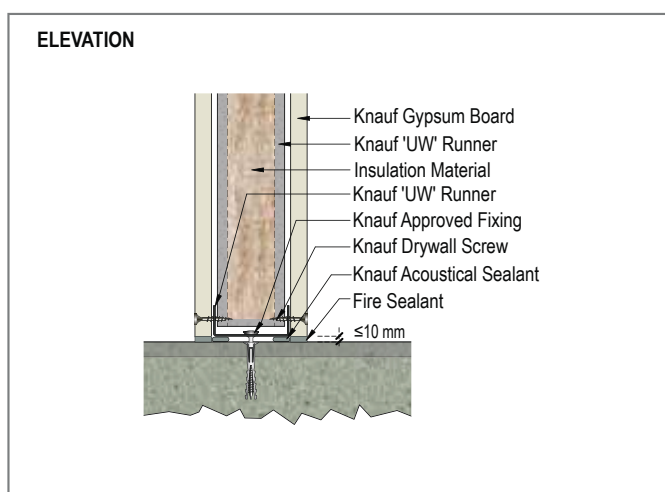
### KW B111 Ceiling connection



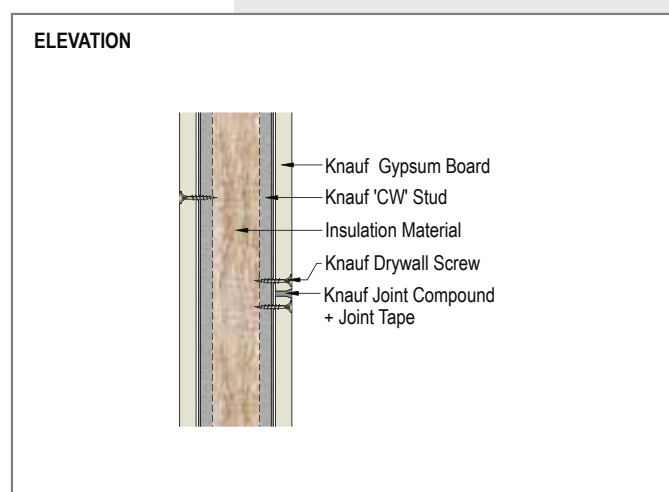
### KW B111 Connection to solid wall



### KW B111 Floor connection



### KW B111 Joint



# KW B112

## SYSTEMS BUILD-UP



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

1. Knauf CW Profile metal thickness 0.6mm, flange 35 mm.
2. Maximum heights calculated based on a limiting deflection l/240 under 200 Pa load application.
3. Sound calculation based on ISO 140.
4. Glass wool insulation, 16 Kg/m<sup>3</sup>
5. Fire rating according to BS-EN 476, part 4 & EN 1364-1.

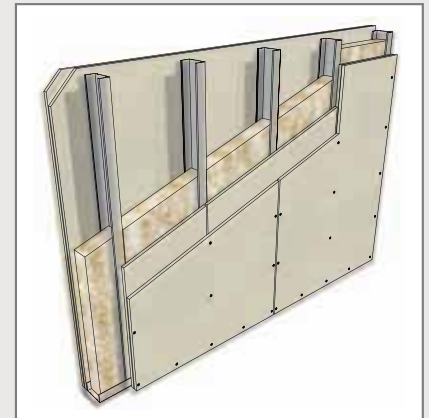
For wet areas, use of Knauf Moisture Resistant Board is recommended. Replacing Knauf Regular Board with Knauf Moisture Resistant Board, or replacing Knauf Fire Resistant Board with Knauf Fire and Moisture Resistant Board will have no influence on system's parameters. Other systems are also available. Should your requirements fall outside the above stated systems, please contact Knauf Technical Department on 00971 4 3377170.



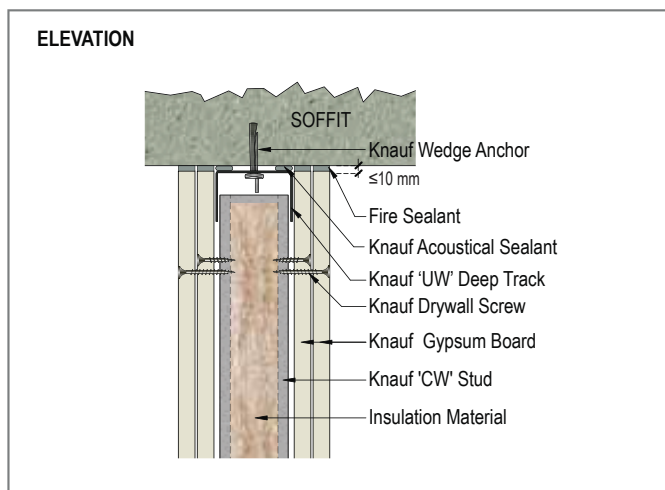
# KW B112

## CONNECTIONS AND JOINTS

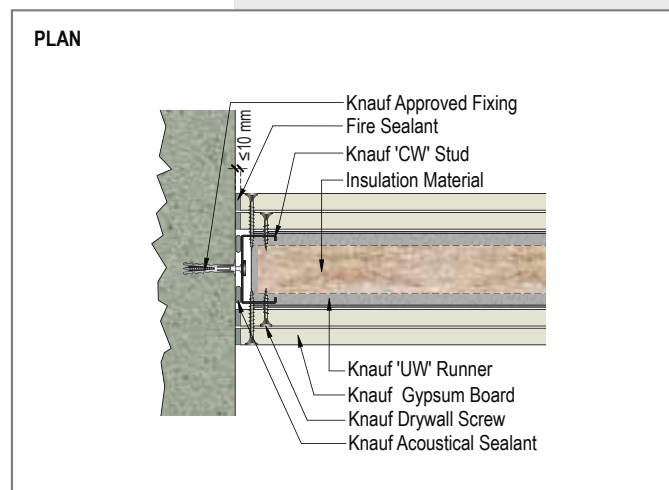
Board Type	Board Width	Stud Spacing
Regular (RG)	1200 mm	600 mm
Moisture Resistant (MR)	1200 mm	600 mm
Fire Resistant (FR)	1200 mm	600 mm
Fire and Moisture Resistant (FM)	1200 mm	600 mm
Pro HD Board	1200 mm	600 mm



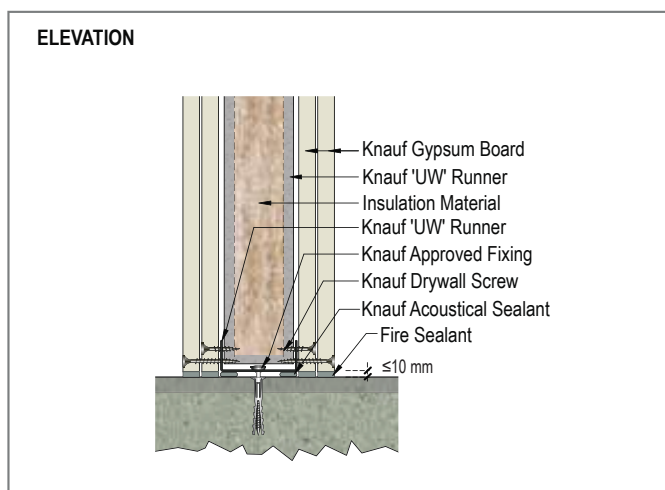
### KW B112 Ceiling connection



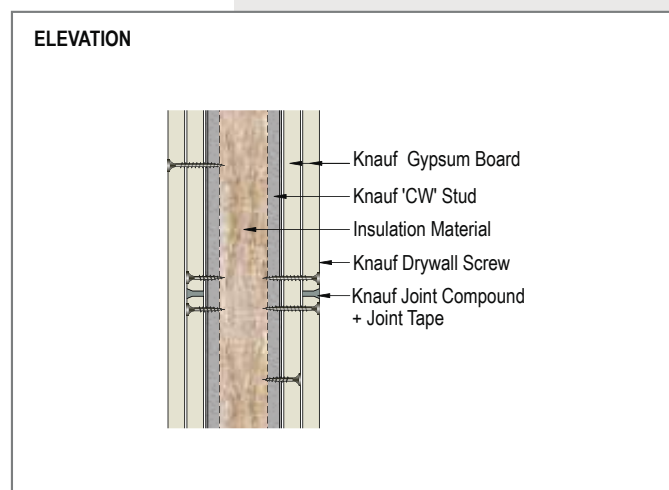
### KW B112 Connection to solid wall



### KW B112 Floor connection

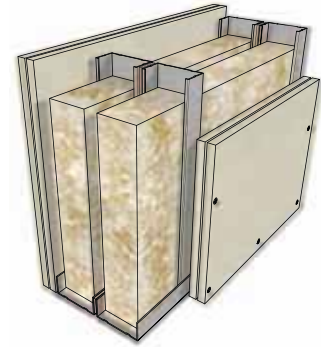


### KW B112 Joint



# KW B115

## SYSTEMS BUILD-UP



Board Type	Cladding Thickness	Studs size <sup>1</sup>	Total Thickness	Max. Height <sup>2</sup>	Approx. Weight	Sound <sup>3</sup> Insulation Rw	Insulation <sup>4</sup> Thickness	Fire Rating <sup>5</sup>
Regular (RG)	2 x 12.5 mm	2x CW 50	155 mm	4.70 m	47.6 Kg/m <sup>2</sup>	58 dB	2 x 50 mm	-
Regular (RG)	2 x 15 mm	2x CW 50	165 mm	5.15 m	60.1 Kg/m <sup>2</sup>	59 dB	2 x 50 mm	-
Fire Resistant (FR)	2 x 12.5 mm	2x CW 50	155 mm	4.70 m	51.7 Kg/m <sup>2</sup>	60 dB	2 x 50 mm	120 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 50	165 mm	5.15 m	60.1 Kg/m <sup>2</sup>	61 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 <sup>2</sup>	62 dB	2 x 50 mm	120 min.
Pro HD board	2 x 15 mm	2x CW 50	165 mm	5.15 m	68 Kg/m <sup>2</sup>	62 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 <sup>2</sup>	60 dB	2 x 50 mm	-
Regular (RG)	2 x 15 mm	2x CW 70	205 mm	5.75 m	60.1 Kg/m <sup>2</sup>	60 dB	2 x 50 mm	-
Fire Resistant (FR)	2 x 12.5 mm	2x CW 70	195 mm	5.50 m	51.7 Kg/m <sup>2</sup>	61 dB	2 x 50 mm	120 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 70	205 mm	5.75 m	60.1 Kg/m <sup>2</sup>	61 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 <sup>2</sup>	63 dB	2 x 50 mm	120 min.
Pro HD board	2 x 15 mm	2x CW 70	205 mm	5.75 m	68 Kg/m <sup>2</sup>	63 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 <sup>2</sup>	61 dB	2 x 50 mm	-
Regular (RG)	2 x 15 mm	2x CW 92	249 mm	6.75 m	60.1 Kg/m <sup>2</sup>	61 dB	2 x 50 mm	-
Fire Resistant (FR)	2 x 12.5 mm	2x CW 92	239 mm	6.50 m	51.7 Kg/m <sup>2</sup>	61 dB	2 x 50 mm	120 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 92	249 mm	6.75 m	60.1 Kg/m <sup>2</sup>	61 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 <sup>2</sup>	63 dB	2 x 50 mm	120 min.
Pro HD board	2 x 15 mm	2x CW 92	249 mm	6.75 m	68 Kg/m <sup>2</sup>	63 dB	2 x 50 mm	120 min.

1. Knauf CW Profile metal thickness 0.6mm, flange 35mm
2. Maximum heights calculated based on a limiting deflection l/240 under 200 Pa load application.
3. Sound calculation based on ISO 140.
4. Glass wool insulation, 16 Kg/m<sup>3</sup>.
5. Fire rating according to BS-EN 476, part 4 & EN 1364-1.

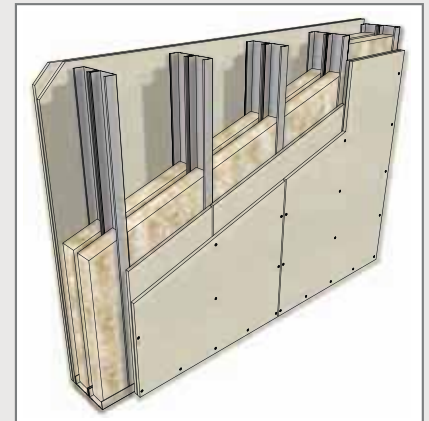
For wet areas, use of Knauf Moisture Resistant Board is recommended. Replacing Knauf Regular Board with Knauf Moisture Resistant Board, or replacing Knauf Fire Resistant Board with Knauf Fire and Moisture Resistant Board will have no influence on system's parameters. Other systems are also available. Should your requirements fall outside the above stated systems, please contact Knauf Technical Department on 00971 4 3377170.



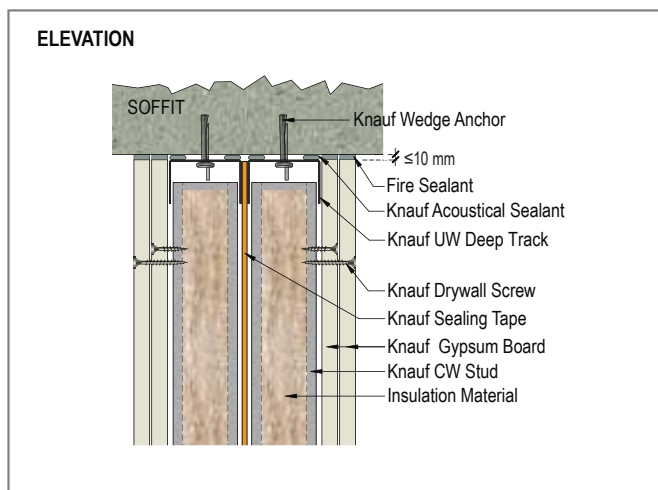
# KW B115

## CONNECTIONS AND JOINTS

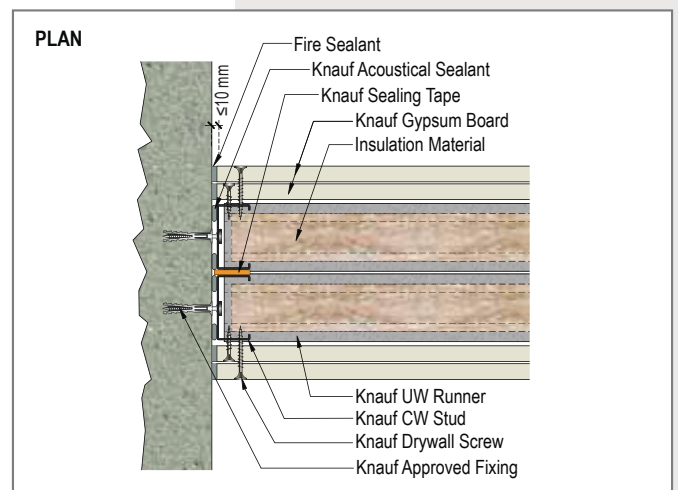
Board Type	Board Width	Stud Spacing
Regular (RG)	1200 mm	600 mm
Moisture Resistant (MR)	1200 mm	600 mm
Fire Resistant (FR)	1200 mm	600 mm
Fire and Moisture Resistant (FM)	1200 mm	600 mm
Pro HD Board	1200 mm	600 mm



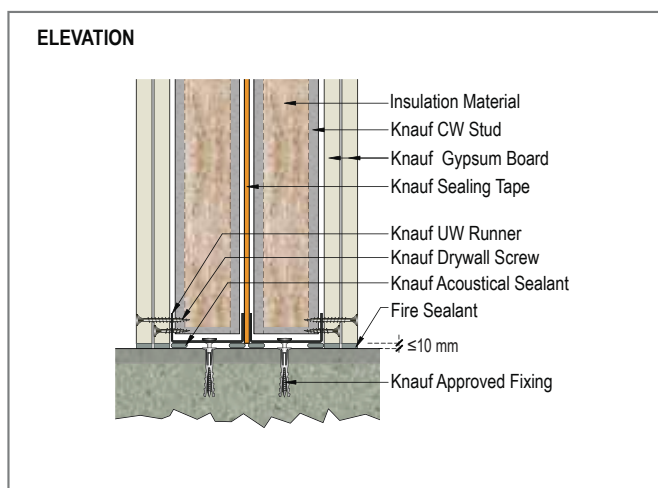
### KW B115 Ceiling connection



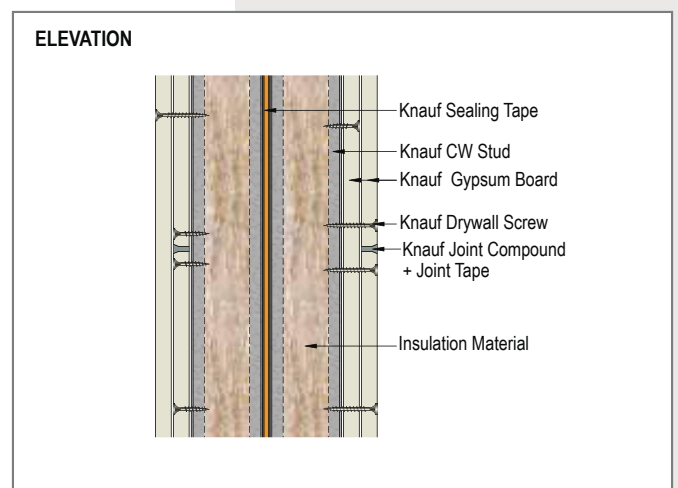
### KW B115 Connection to solid wall



### KW B115 Floor connection

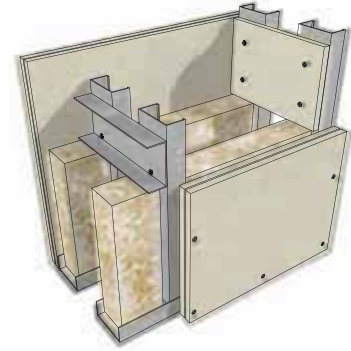


### KW B115 Joint



# KW B116

## SYSTEMS BUILD-UP



Board Type	Cladding Thickness	Studs size <sup>1</sup>	Total Thickness	Max. Height <sup>2</sup>	Approx. Weight	Sound <sup>3</sup> Insulation Rw	Insulation <sup>4</sup> Thickness	Fire Rating <sup>5</sup>
Regular (RG)	2 x 12.5 mm	2x CW 50	300-460 mm	4.05 m	47.6 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	-
Regular (RG)	2 x 15 mm	2x CW 50	300-460 mm	4.05 m	60.1 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	-
Fire Resistant (FR)	2 x 12.5 mm	2x CW 50	300-460 mm	4.05 m	51.7 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 50	300-460 mm	4.05 m	60.1 Kg/m <sup>2</sup>	56 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 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Pro HD board	2 x 15 mm	2x CW 50	300-460 mm	4.05 m	68 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Regular (RG)	2 x 12.5 mm	2x CW 70	300-460 mm	5.50 m	47.6 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	-
Regular (RG)	2 x 15 mm	2x CW 70	300-460 mm	5.50 m	60.1 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	-
Fire Resistant (FR)	2 x 12.5 mm	2x CW 70	300-460 mm	5.50 m	51.7 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 70	300-460 mm	5.50 m	60.1 Kg/m <sup>2</sup>	56 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 <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Pro HD board	2 x 15 mm	2x CW 70	300-460 mm	5.50 m	68 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Regular (RG)	2 x 12.5 mm	2x CW 92	300-460 mm	6.95 m	47.6 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	-
Regular (RG)	2 x 15 mm	2x CW 92	300-460 mm	6.95 m	60.1 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	-
Fire Resistant (FR)	2 x 12.5 mm	2x CW 92	300-460 mm	6.95 m	51.7 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Fire Resistant (FR)	2 x 15 mm	2x CW 92	300-460 mm	6.95 m	60.1 Kg/m <sup>2</sup>	56 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 <sup>2</sup>	56 dB	2 x 50 mm	120 min.
Pro HD board	2 x 15 mm	2x CW 92	300-460 mm	6.95 m	68 Kg/m <sup>2</sup>	56 dB	2 x 50 mm	120 min.

1. Knauf CW Profile metal thickness 0.6mm, flange 35mm
2. Maximum heights calculated based on a limiting deflection l/240 under 200 Pa load application.
3. Sound calculation based on ISO 140. Sound rating can be improved by using Knauf V- Brace solution. Please contact Knauf Technical Department for further information.
4. Glass wool insulation, 16 Kg/m<sup>3</sup>
5. Fire rating according to BS-EN 476, part 4 & EN 1364-1.

For wet areas, use of Knauf Moisture Resistant Board is recommended. Replacing Knauf Regular Board with Knauf Moisture Resistant Board, or replacing Knauf Fire Resistant Board with Knauf Fire 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 on 00971 4 3377170.

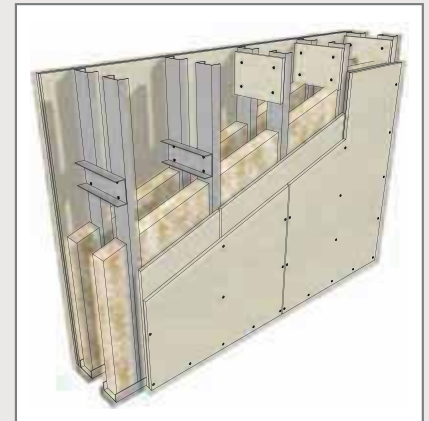




# KW B116

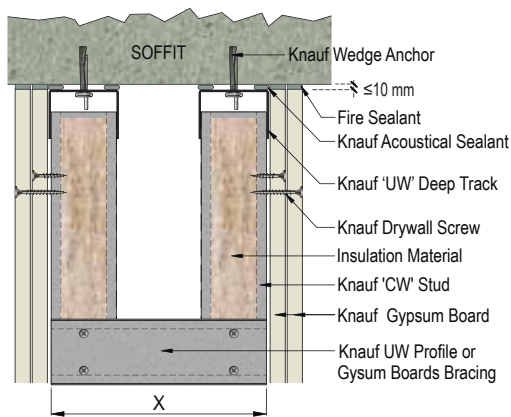
## CONNECTIONS AND JOINTS

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



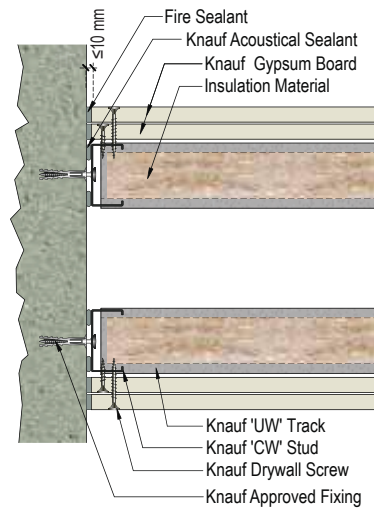
### KW B116 Ceiling connection

#### ELEVATION



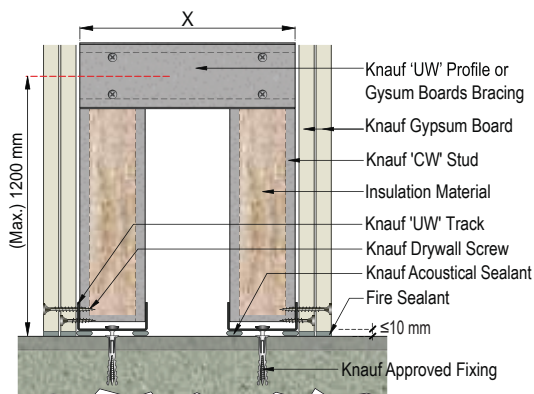
### KW B116 Connection to solid wall

#### PLAN



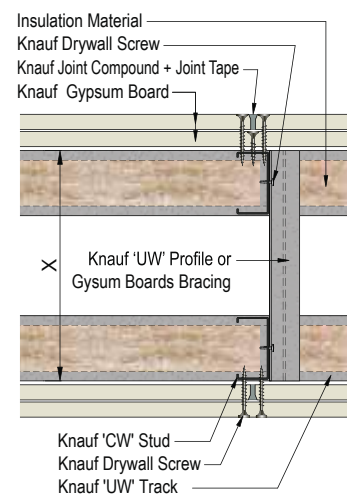
### KW B116 Floor connection

#### ELEVATION



### KW B116 Joint

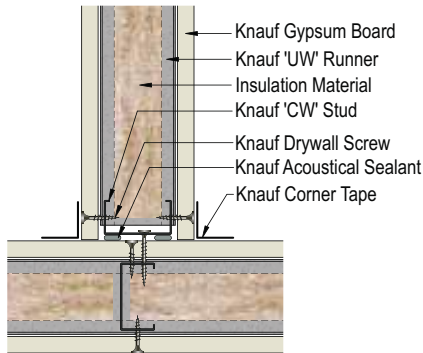
#### PLAN



# T Junction and other wall connection

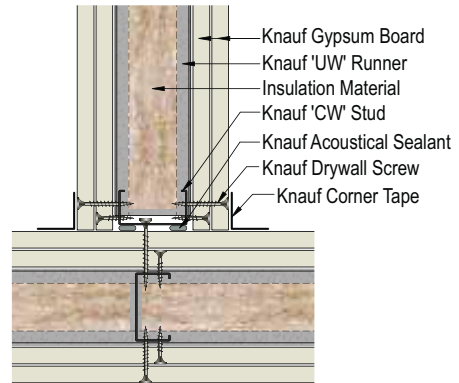
**KW B111 T Junction**

PLAN



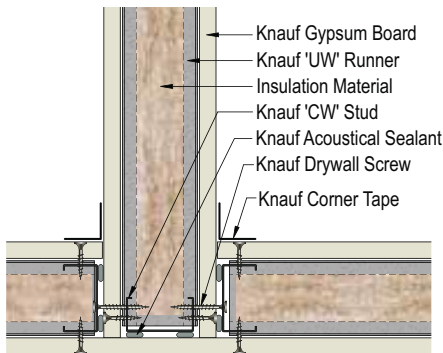
**KW B112 T Junction**

PLAN



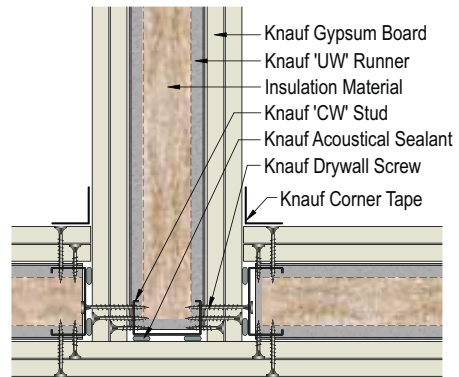
**KW B111 T Junction - alternative**

PLAN



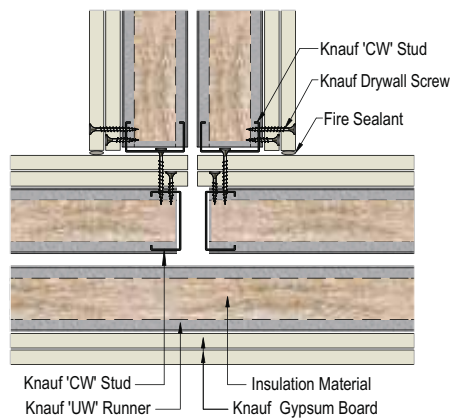
**KW B112 T Junction - alternative**

PLAN



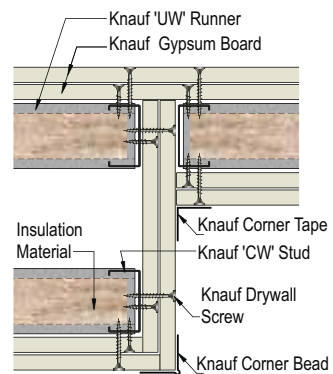
**KW B115 T Junction - alternative**

PLAN



**KW B116 Connection to wall**

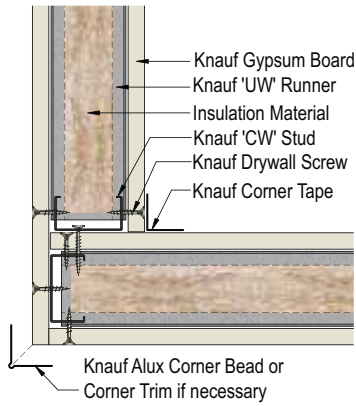
PLAN



# Corners

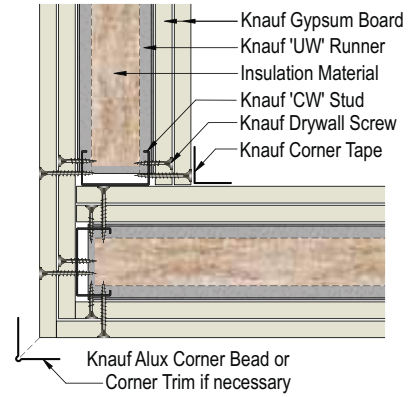
**KW B111 Corner detail**

PLAN



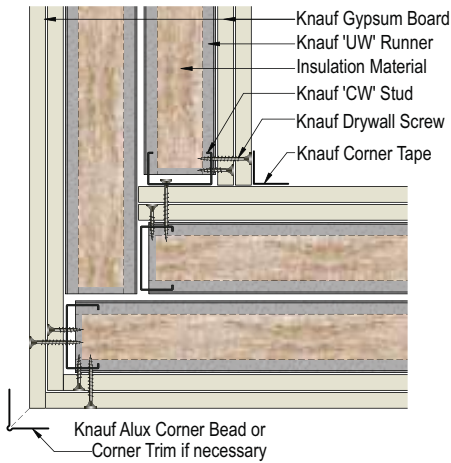
**KW B112 Corner detail**

PLAN



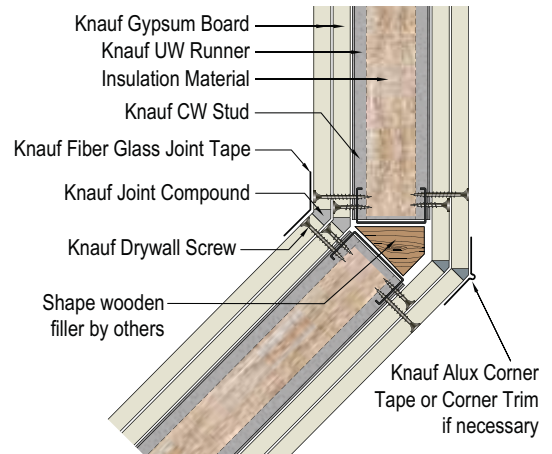
**KW B115 Corner detail**

PLAN



**KW B112 Angled corner**

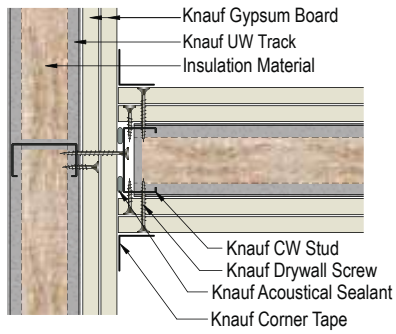
PLAN



# Connection with other assemblies

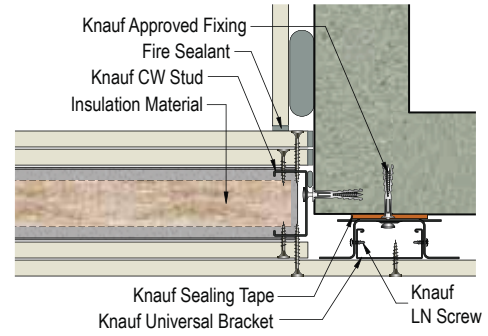
## KW B112 Connection with wall lining

PLAN



## KW B112 Connection with solid wall

PLAN



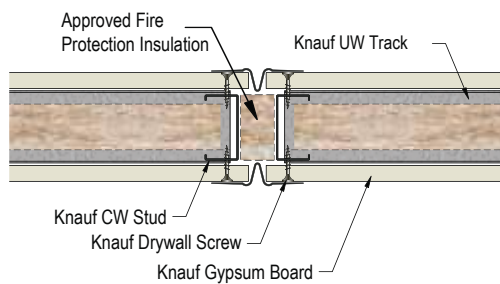
## Control Joint

### Install control joints

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

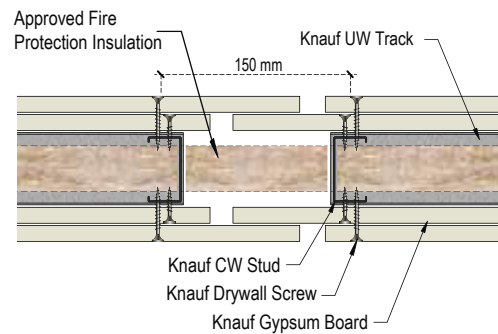
## KW B111 Control joint

PLAN



## KW B112 Control joint

PLAN



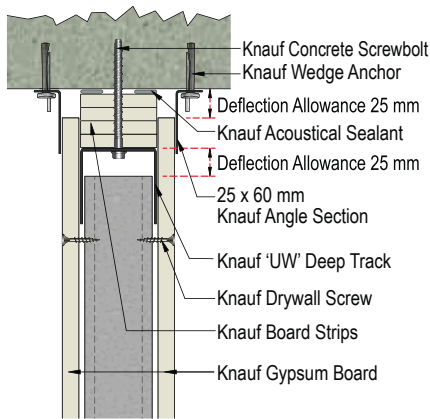
# Deflection head

- For higher deflection requirements, up to  $\pm 25$  mm non-fire rated and fire rated use the deep flange UW Track (60mm).

Deflection header details below:

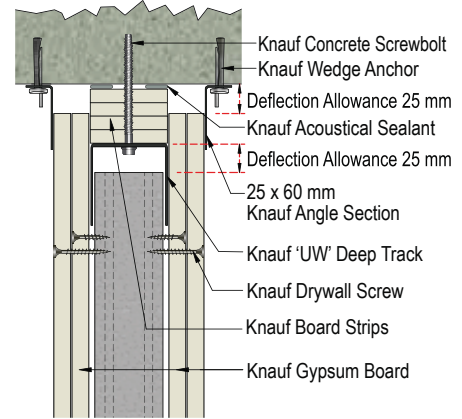
## KW B111 Deflection Head

Elevation



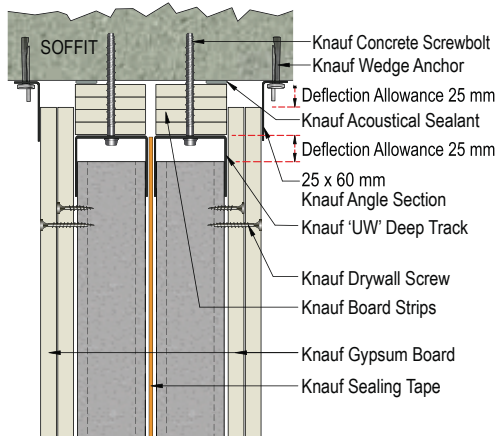
## KW B112 Deflection Head

Elevation



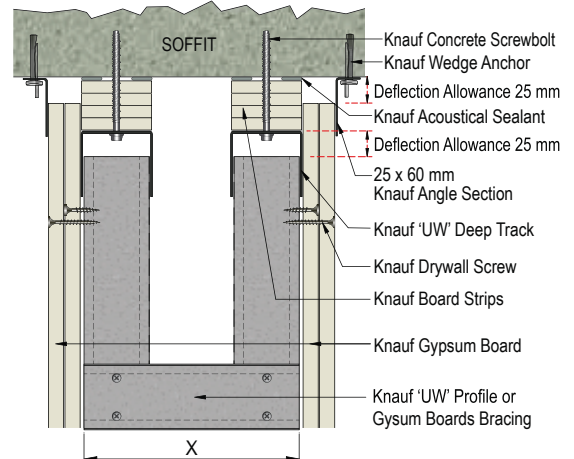
## KW B115 Deflection Head

Elevation



## KW B116 Deflection Head

Elevation



# Training



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.



## The Key Advantages of Knauf Training:

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

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



- 2 Fixing Knauf 'C' Stud to form the position frame abutment.



- 3 Twisting Knauf 'C' Stud into position.



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



- 5 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.



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



- 8 Fixing Knauf Plasterboard to the completed framework.



# General requirements

## Control joints

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

## Jointing

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

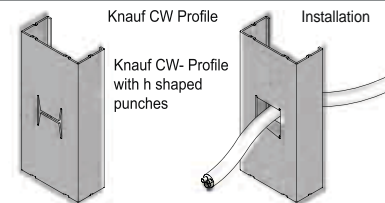
## Connections sealing

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

## Fire penetration

- Use approved fire penetration details and sealants.

- M&E cabling can be inserted through Knauf CW studs
- Insulation materials such as stone wool, glass wool, EPS should be planted within the CW studs.
- The insulation can be fixed either friction fit or fixed securely by other means.
- Once the insulation + cabling work is finished, the board on the other side of partition should be cladded



- Power sockets, switch sockets, splitter sockets etc. are allowed to be installed at any position.
- In systems with sound requirements, do not install power sockets opposite to each other
- Electrical socket boxes can be formed by using punching tools
- For fire rated systems, the socket must be fire rated with minimum the same fire rating as the partition.
- Use tested and certificated putty pads for sockets in fire rated systems.



## Processing gypsum boards

Cut the paper face with a sharp knife



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



Cut the board 45 degrees



Smooth the cut edge with a beveler



## Cutting and processing the boards

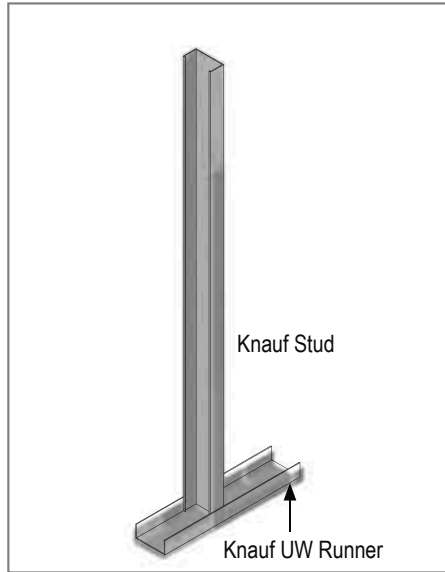
- Knauf Boards shall be cut by scoring and breaking or by sawing
- When cutting by scoring, the face paper shall be cut with a utility knife
- Knauf boards shall be broken by snapping boards in the reverse direction, then cutting the back paper with a utility knife
- Cut edges should be smoothed with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



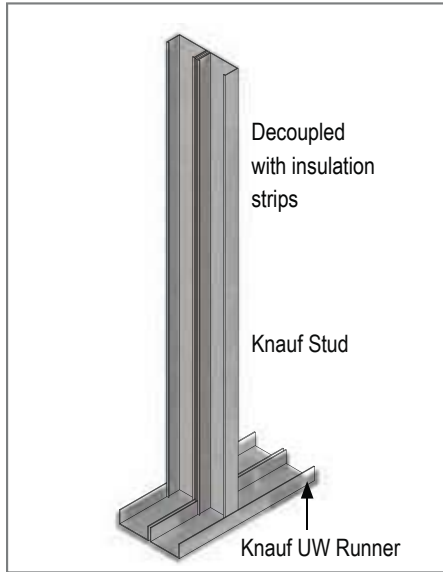


# Studs positioning

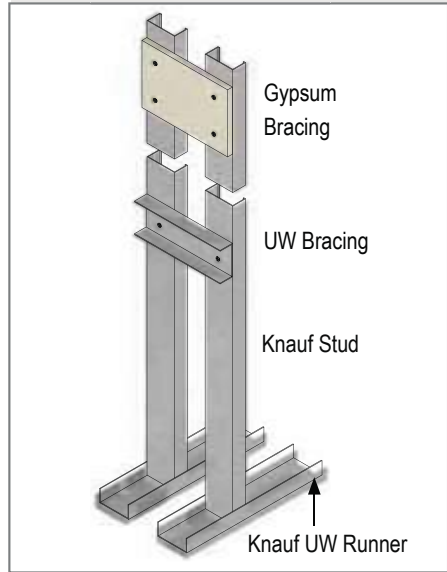
## System KW B111 / B112



## System KW B115



## System KW B116

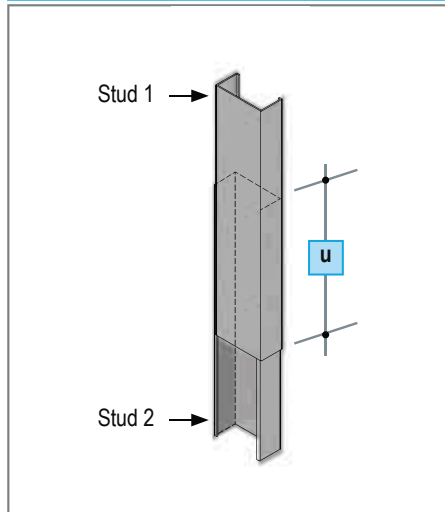


### Positioning the tracks and perimeter studs

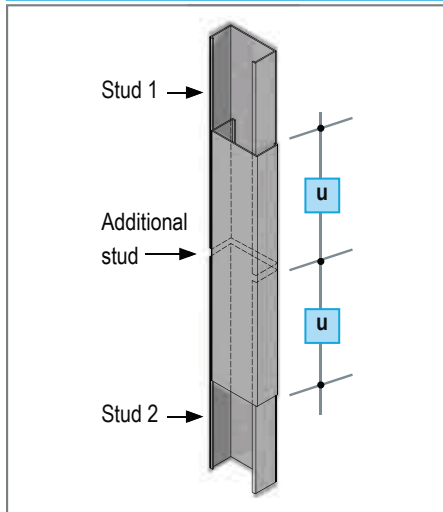
- Mark location of partitions accurately on concrete structure with stringline / laser
- Use Knauf Acoustical Sealant under Knauf CW studs and UW Tracks forming the perimeter for acoustic rated partition. For fire rated systems use Knauf Fiam Sealant
- Bottom and top track shall be aligned accurately at the floor and ceiling
- Fix 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

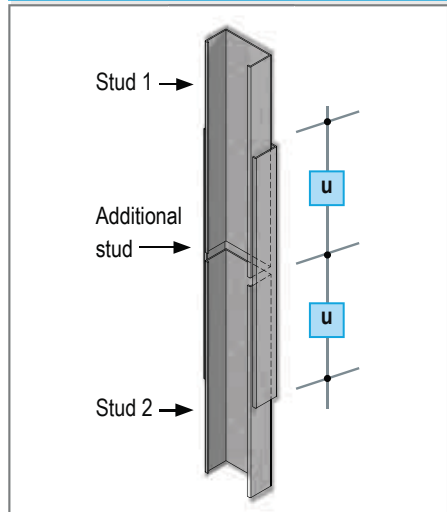
### Option 1 – 2 CW studs interlaced like a box



### Option 2 – 2 CW studs. Joint connected with additional CW stud



### Option 3 – 2 CW studs. Joint connected with additional UW track



Stamp Plier

### Vertical extension of studs (splicing)

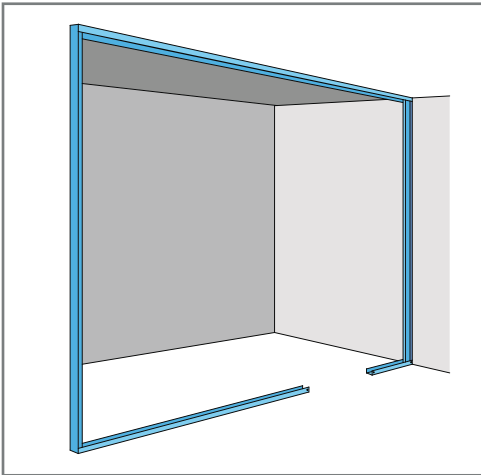
Stud size	Overlap $u$
CW 50	$\geq 50$ cm
CW 70	$\geq 70$ cm
CW 92	$\geq 92$ cm
CW 146	$\geq 146$ cm

### Calculation example:

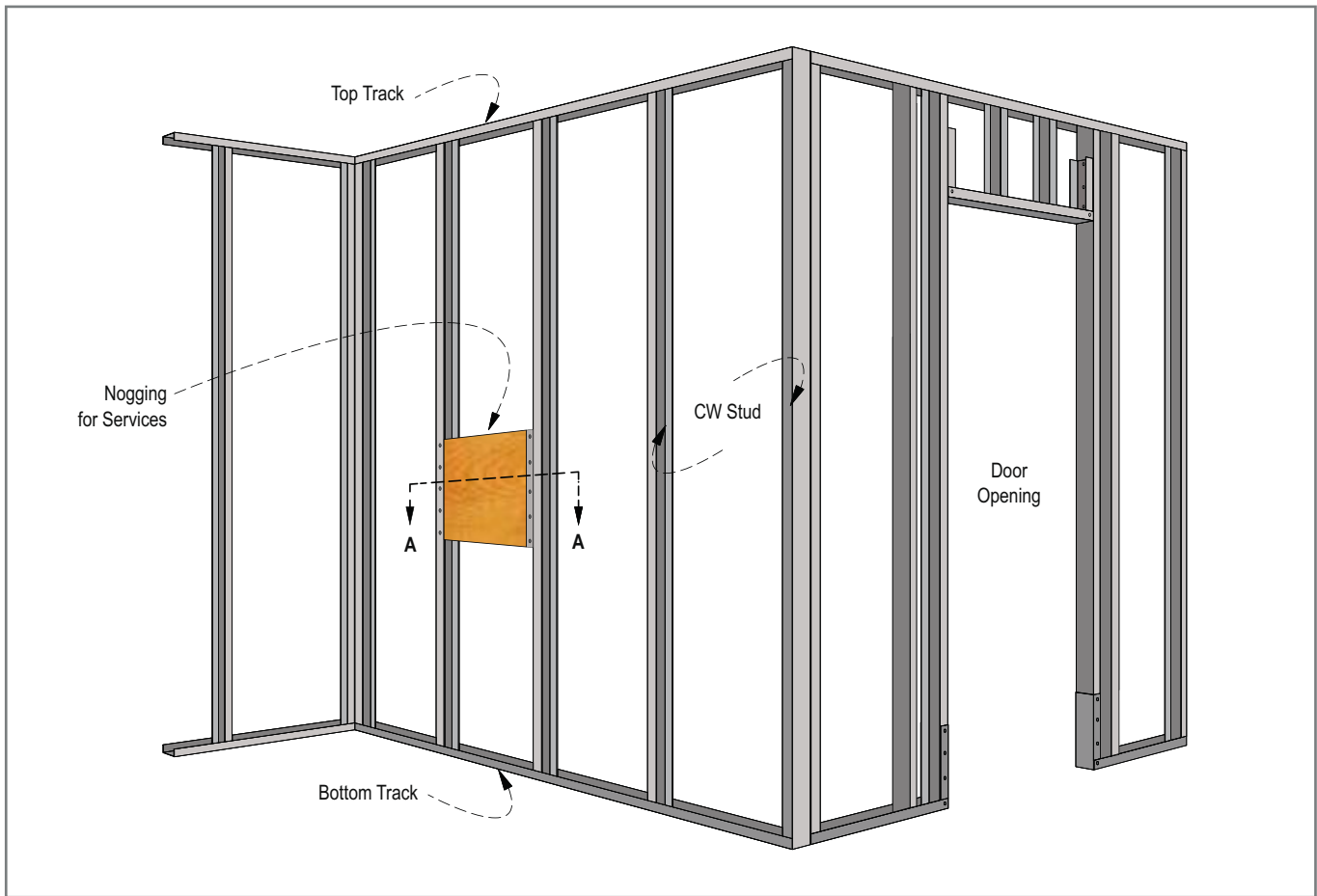
- Option 1 CW 50 – overlap 50 cm
- Option 2 CW 50 – additional piece CW 50, 100 cm
- Option 3 CW 50 – additional piece of UW 50, 100 cm

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

# Framing



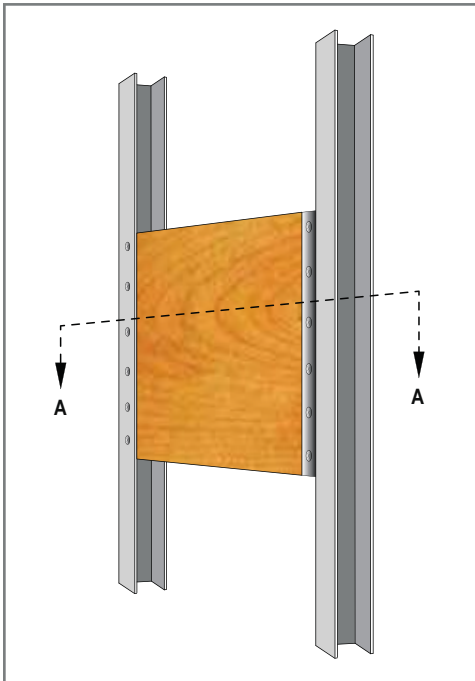
Framing



- Knauf partition standard deflection detail allows for 10 mm positive / negative deflection
- For higher deflection, use the deflection head
- Space studs at max. 600 mm centers. For partitions where loads are going to be applied, please follow our details for nogging
- 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

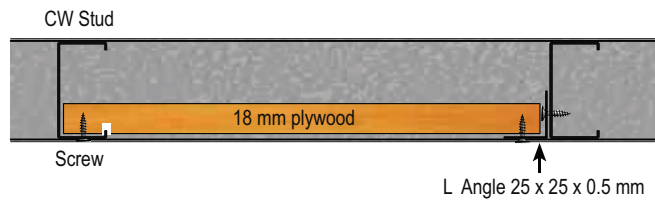
# Fixing loads / Cantilever loads

## Nogging for Services



- Install a 18 mm plywood backing between the profiles
- Fix the plywood on one side with L angle ( 25 x 25 x 0.5 mm)
- Screw spacing: 100 mm
- The plywood backing should be 100 mm wider than total height of the object (wash basin, cupboard)

## Section A - A



## 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

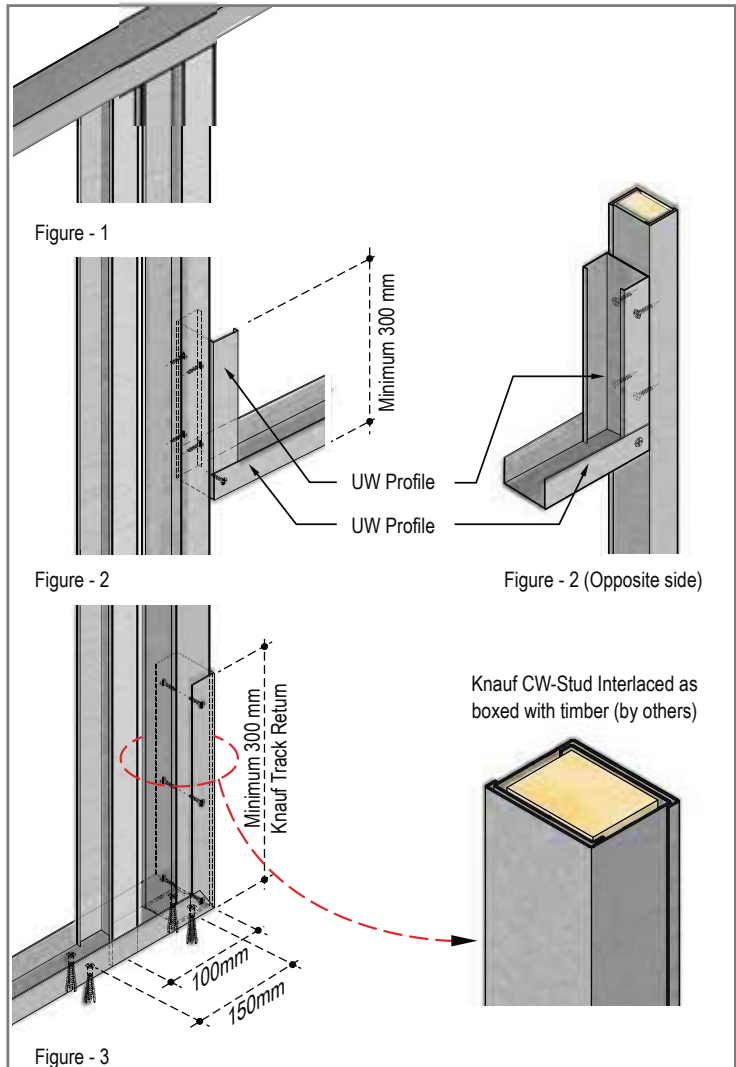
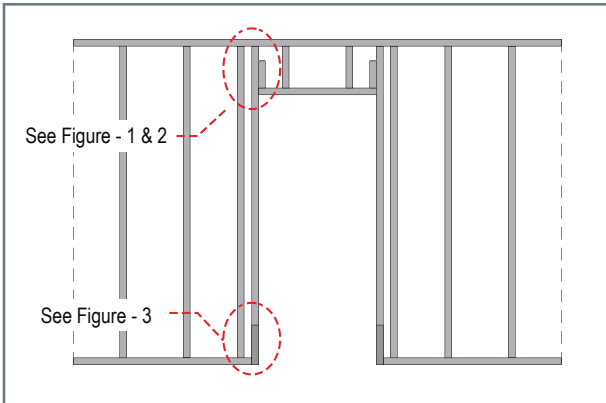
## Loading capacity lightweight anchorage

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

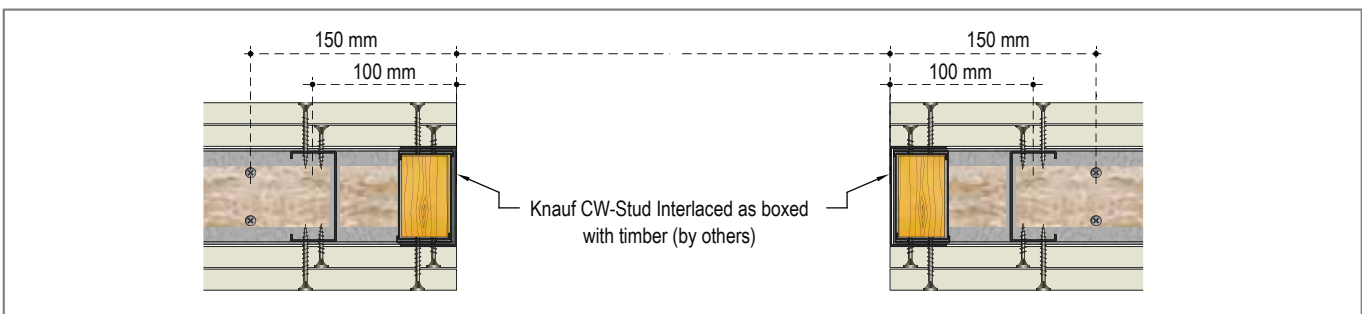
- Use Boxed Knauf CW Studs for forming door frames (up to 60 kg)
- Locate a vertical stud within 100 mm of door frame for reinforcement
- UW Channel used for floor track should be extended min 300 mm and returned and fixed to the CW door stud
- Additional fixings should be included when fixing the floor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

## Doors Framing



- A head shall be formed over metal door with a cut-to-length section of track
- The section of track shall then be placed horizontally at the relevant height with flanges
- Cut and web bent vertically at each end, then securely attached to the vertical studs
- A cut-to-length section of stud shall then be positioned vertically above the door head and extending to the ceiling track

## Doors Framing / Door opening with CW studs

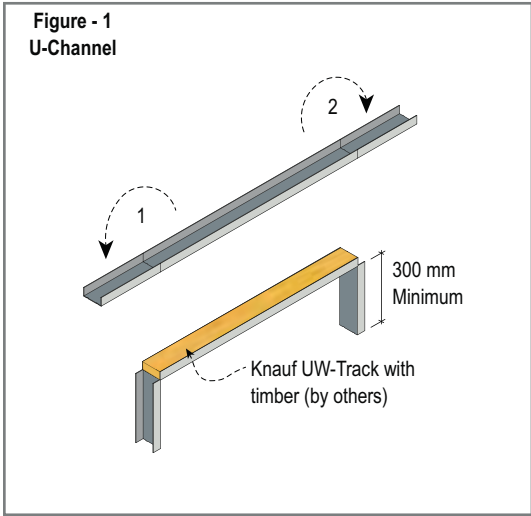
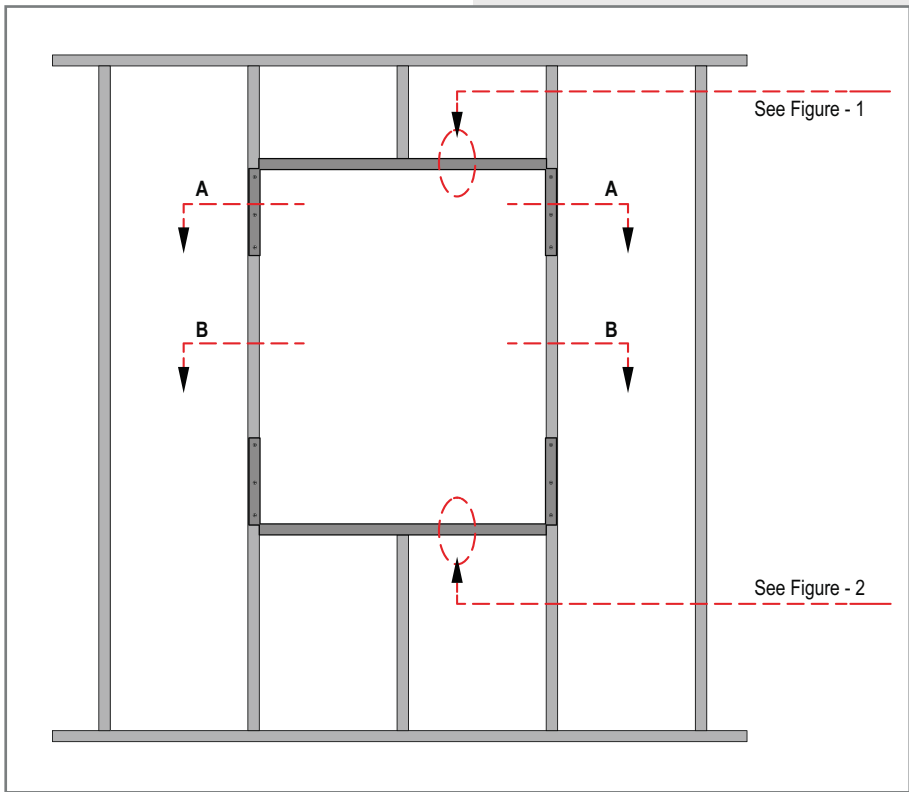
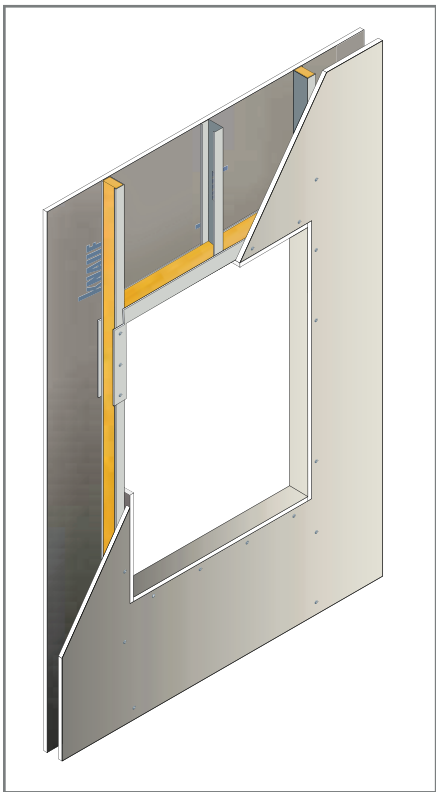


Door weight	No. of layers on each side	Profile	Load class
Up to 60 kg	2 + 2	Min. CW 50 x 35 x 0.6 mm	Severe duty 100 slams
Up to 100 kg	2 + 2	Min. CW 70 x 35 x 0.6 mm	Minimum duty 20 slams

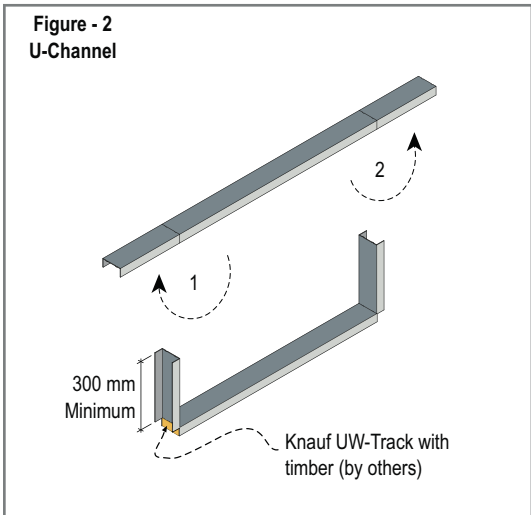


# Window openings

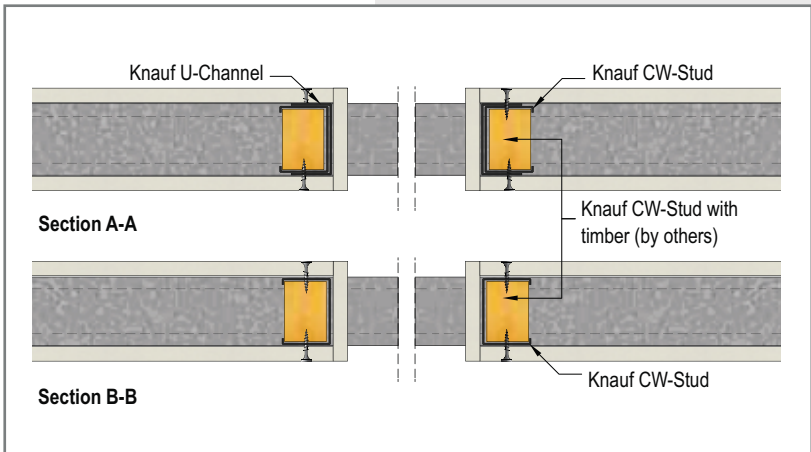
## Window Opening Frame



- CW Studs should be reinforced with timber (by others).
- UW tracks should be snapped and bent and reinforced with timber for extra rigidity.
- Cladding of the boards should follow the partition requirement (one layer / two layers .etc).

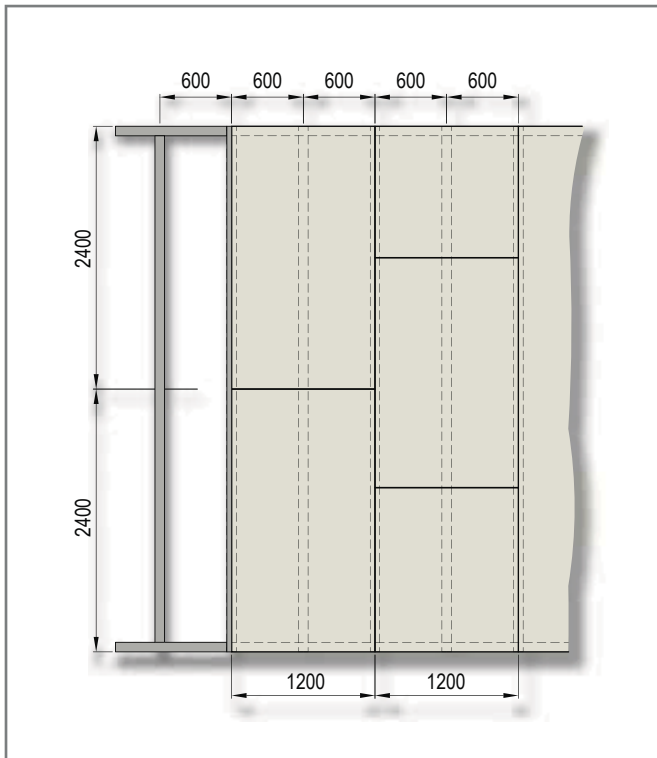


## Door opening with U-Channel & CW-Studs

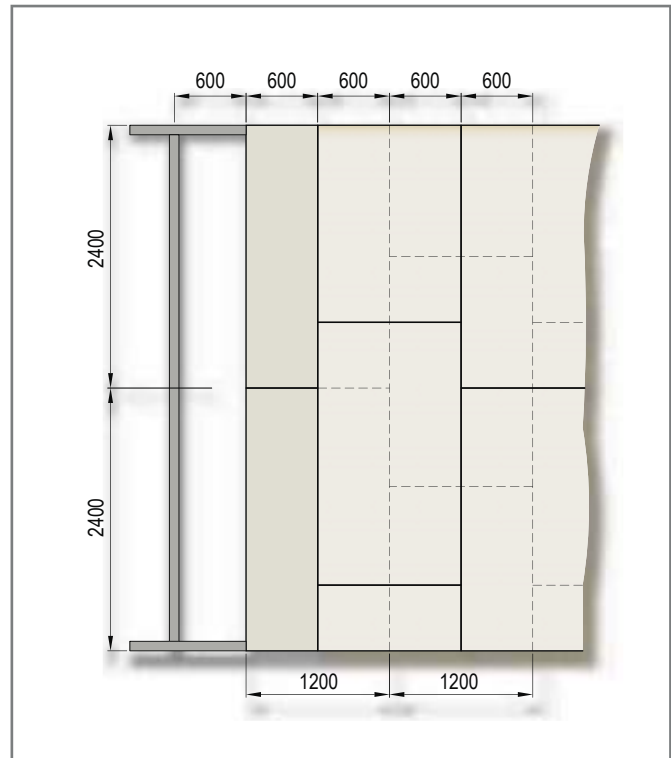


# Cladding of boards

## First Layer Cladding



## Second Layer Cladding



## Fixing

- Knauf Boards should be fixed vertically on the metal stud framework
- Boards should never touch the floor. Approximately 10 mm of gap should be left at the floor connection when fixing boards
- The gap should be filled with sealant or mastic
- Vertical edges should be staggered by 600mm. Horizontal edges should be staggered by at least 300 mm.  
Both joints (horizontal and vertical) on opposite side of the partition should be staggered
- For multi-layer cladding, second layer should be staggered both horizontally and vertically

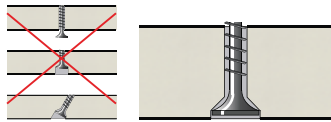
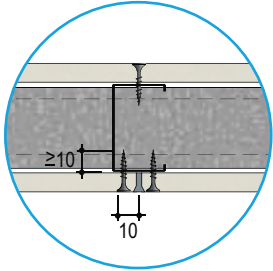
## Connections sealing

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

# Boards fixing

## Screw location and penetration depth

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



Correct screw head position

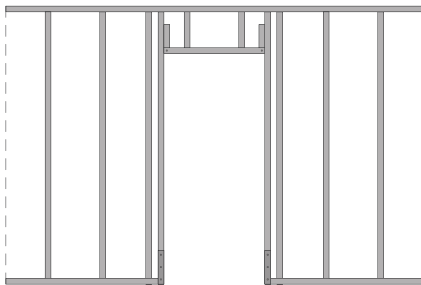
## Fastening of the cladding

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

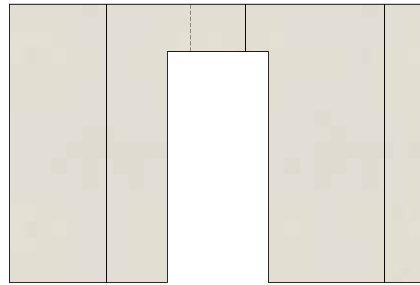
## Maximum screw spacing – framing at 600 mm center to center

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

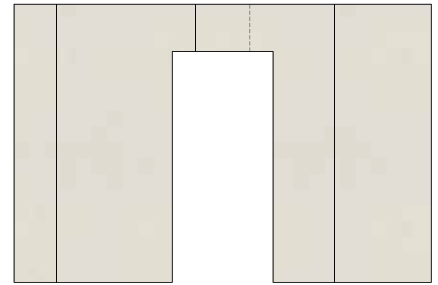
## Doors opening frame and cladding of boards



Door Opening Frame



Cladding of Partition side 1



Cladding of Partition side 2

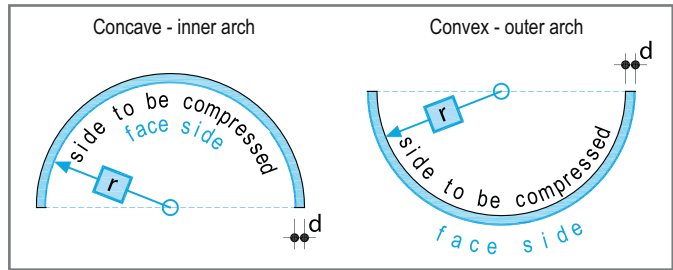
- Do not apply board joints on door frame profiles
- Joints should be staggered on both sides

# Curved partitions

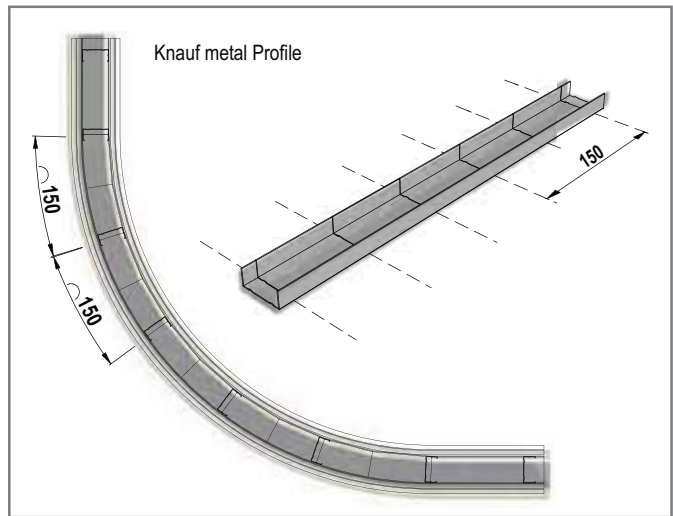
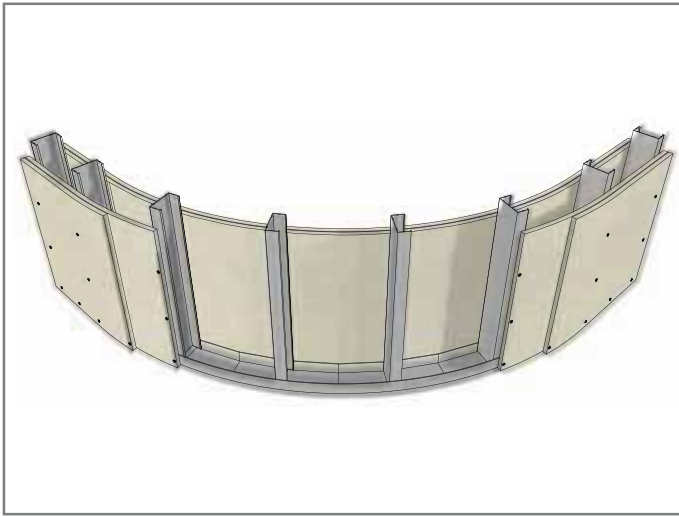
## Bending radius - Knauf boards

Board thickness d mm	Bend radius <b>r</b> in longitudinal direction	
	Dry bending mm	Wet bending mm
6 mm	1500 mm	≥ 800 mm
8 mm	1900 mm	≥ 800 mm
12.5 mm	≥ 2750 mm	≥ 1000 mm

■ Other Knauf boards / bending radius on request



## Curved partitions

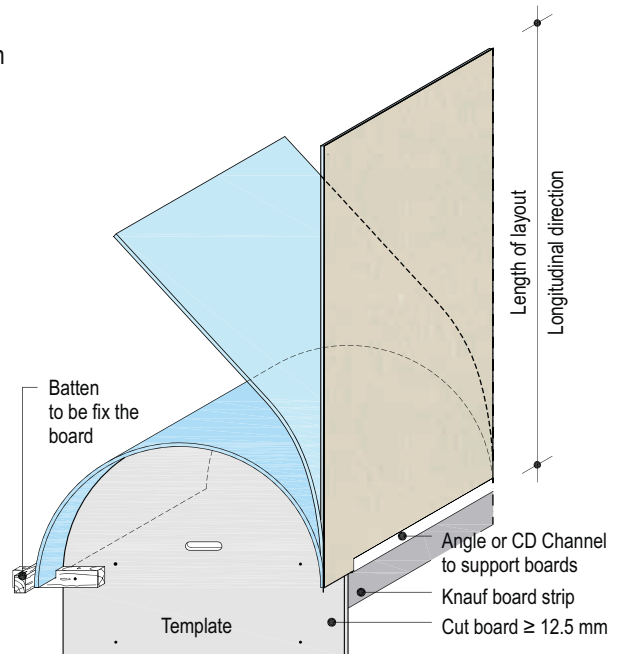


### Knauf UW track cut and bent

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

### Wet bending

1. 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
3. 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
4. Place the board on the prepared template, bend and fix the board with adhesive tape and allow to dry



### Dry bending

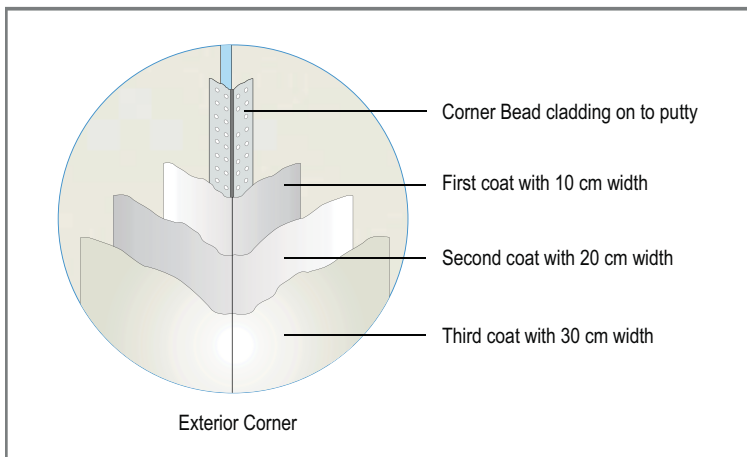
1. Slowly bend the Knauf board laterally over the stud partition. Pre-bending on a template is recommended
2. Fix with Drywall Screws continuously following the bending direction





# Joint treatment

- Board surface should be cleaned of materials such as dust, oil etc.
- Filling and covering of joints should only take place after the boards have been allowed to rest in the given humidity and temperature zones, and no more longitudinal changes can be expected, i.e. expansion or contraction.
- In case of mastic asphalt screed, fill in joints after screed has been applied.
- First coat of Knauf Joint filler should be applied with tools of sufficient width to extend a minimum 50 mm beyond both sides of the centre of the joint (100 mm width).
- Knauf Joint Tape should be embedded into the joint filler to reinforce the joint between two gypsum boards
- Once the first coat has dried, a second coat of Knauf Joint filler should be applied with 100 mm width on both sides of the centre of the joint tape (200 mm width).
- A very thin third coat of Knauf Joint filler should be applied with a minimum width no less than 150 mm beyond both sides of the centre of the joint tape (300 mm width).
- Once third coat has dried, surface should be sanded and smoothed
- Knauf Corner Bead should be used for exterior corner reinforcements
- 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)			Pallet details		
Thickness	Width	Length	No. of boards	Surface (m <sup>2</sup> )	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 <sup>2</sup> )	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

### 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



Dimensions (mm)			Pallet details		
Thickness	Width	Length	No. of boards	Surface (m <sup>2</sup> )	Tonnes (approx)
12.5	1200	2400 / 3000	80 / 68	230.4 / 244.8	2.42 / 2.68
15.0	1200	2400 / 3000	68 / 56	194.84 / 210.6	2.56 / 2.76

### Fire and Moisture Resistant

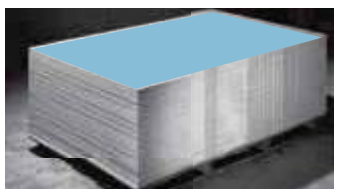
Knauf Fire & Moisture Resistant Gypsum Boards (FM) are gypsum wallboards with high fire protection performance manufactured specifically for use in areas exposed to moisture and humidity.



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



\* Systems not listed in this data sheet. For assemblies using these special boards, please contact Knauf Technical Department.

# System components

## Profiles

### Knauf CW studs

Galvanized lightweight steel sections, zinc coating minimum Z100.

Dimensions (mm)			
Thickness	Web	Flange	Length
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 in high performance 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 LN Waferhead Screws

Zinc coated self drilling tips with low profile head for metal to metal fixing. Suitable for use with light gauge up to 1.4 mm thick



# System components

## Driva Plus Self Drilling Metal Plug

Driva Plus with screw requires no drilling and can be screwed simply on the partitions for standard loads.



(Size 14 x 32 mm)

## Cavity Fixings

Cavity fixing is used for superior loads on partitions and its design enables that the fixtures can be removed and refitted.



(Size 5 x 65 mm)

## Wedge Anchor

Wedge Anchor is a very easy-to-apply accessory which can be used as an alternative solution to Plastic Plug & Screw in terms of fire rated partitions.



(Size 6 x 40 mm)

## Concrete Screwbolt

Concrete Screwbolt is a non-expansion bolt with undercut technology for fixing into wood, brick, cracked or non-cracked concrete and it is a high performance bolt that cuts its own thread. It suits perimeter fixings, to some details of Fire Resistant partition and is specific for Head of Wall connections.



(Size 7.5 x 100 mm)

## Knauf Hartmut

The most advanced cavity dowel for drywall systems with a load capacity of up to 65kg.



(Size 5 x 60 mm)

## Knauf TN Self Drilling Drywall Screws

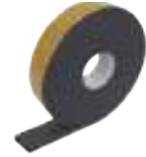
Black phosphated self drilling screws, for light gauge metal up to 0.7 mm thickness. Length 25 / 35 / 45 / 55 mm. Box 1000 pcs.



# System components

## Knauf Sealing Tape

Recommended for use within the Knauf W115 wall system as a sound isolator. Tape is placed on the flange of the CW Studs, only to one side of the wall system.



## Knauf Joint Tape

For reinforcing joints. Width 50 mm. Length 90m



## 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 EASY - Finish

EASY - Finish is designed for internal use only and is intended to provide a perfectly smooth and level surface ready for the final decoration or wall finishing.



## Knauf Putty Pad

Knauf FR (Fire Rated) Putty Pads are an easy-to-apply fire and sound rated sealant supplied as a non-setting putty. The pad is hand workable, re-useable and re-serviceable due to its non-setting properties.



## Knauf FR Sealant

Knauf FR Sealant is a grey-colored, acrylic based sealant which improves fire insulation and acoustical performance when applied in fire-resistant drywall partitions as per Knauf's recommendation.



# System components

## 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 A@TCH Fire Resistant Access Panel

Knauf has developed the A@tch fire rated access panel to provide an effective solution to gain access to building services that are concealed in drylined ceiling or wall structures which serve fire protection or separation purposes. Designed with an invisible keyhole locking system, that gives you a discrete and seamless finished access panel. The doors are finished in powder-coated white and can be over painted to blend with the surrounding surface.



# 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



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