

KNAUF Throughwall

Exterior Infill Panel System

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CONTENTS

Introduction to Knauf Thro Why Knauf ThroughWall? Architect and ThroughWal **Main Contractor and Throu** How Knauf can help your p Knauf ThroughWall BBA Ce System Performance System Performance – Bui System Components - Inte System Components – Plas System Components - Stee System Components - Fixi System Components – Insu System Components - Win System Components – Exte Knauf ThroughWall Suppo Build on us **CITB Accredited Training O**

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bughWall	4
	6
l	9
ıghWall	9
project?	10
ertificate	11
	12
lding Regulations	14
ernal Finishing Options	16
sterboard Range	17
el Frame (SFS)	18
ings	19
ulation	20
ndliner	21
erior Finishing Options	22
ort	23
	24
rganisation	25

Offering a complete 'through the wall' system

An introduction to the Knauf ThroughWall System

Knauf ThroughWall is a one-manufacturer solution that provides the integral parts of an exterior wall system. It is designed to meet required building performance while allowing a flexibility of external finishes to be applied, such as rainscreen cladding and brickwork.

The Knauf ThroughWall system is also suitable for use in buildings in excess of 18 metres^{*} in height. The flexibility in specifying Knauf products allows various options of system build-up to be achieved whilst meeting regulatory requirements, such as structural, fire resistance and thermal performance. It is important that the overall external wall design including the chosen cladding is checked to ensure the required testing and regulatory requirements are met.

Employing a warm/hybrid frame construction means that the SFS^{**} is sheathed with external insulation and/or insulated within the SFS.

The system comprises of Knauf Plasterboards, Knauf Steel Framing Sections, Knauf Insulation OmniFit Slab 35 or OmniFit Roll 34, Knauf Windliner and Knauf Insulation Rocksilk RainScreen Slab.

Knauf ThroughWall can be designed to interface internally within the building with various interior systems solutions from Knauf ranging from drywall, ceiling and flooring solutions.

* 11m for Scotland

** Steel Framing Sections



Offering a complete 'through the wall' system

Traditionally, most system components listed below are sold by different suppliers. This results in a lack of cohesive data on system performance and ambiguity as to which manufacturer is responsible in the event of a system failure.

At Knauf, we recognise this complication when designing, specifying and building systems.

Knauf, at the time of publication, is the only manufacturer in the UK and Ireland to provide all products to form an external infill panel system along with providing associated technical support via its Technical Design and Support Services.





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fully tested system

Knauf Insulation Rocksilk® RainScreen Slab
Knauf Windliner
Knauf SFS
Knauf Fixings & Accessories
Knauf Insulation OmniFit
Slab 35 or OmniFit Roll 34
Knauf Plasterboard
*
Knauf Jointing
Knauf Airless Finish

Keep it simple, choose Knauf.

Why Knauf ThroughWall?

C De-risk the ThroughWall Design

When products from multiple manufacturers make up a system, there will inevitably be areas where no details exist on how to interface one product with another or queries arise when abutting two systems from different manufacturers.

A typical example of this is where an internal partition meets an external wall system and how the systems should be constructed together. With the Knauf ThroughWall system, there is just one manufacturer and one set of full system drawings to indicate how the system should be constructed, resulting in far fewer queries from specification to installation. Furthermore Knauf offers a full range of internal and external product options to complement the ThroughWall system.

Knauf System Performance Warranty and Certification

Instead of only supplying product specific data, Knauf can provide full system performance data, testing reports (acoustics, fire and thermal U-value calculations) and certification including a BBA (British Board of Agrément) certificate for the complete Knauf ThroughWall system.

Individual product warranties do not necessarily accurately reflect how the completed structure will perform as a system. Only a full system of the sort provided by Knauf will do this. Knauf offer a full system performance warranty when 100% of all products in the system are Knauf products and installed in accordance with the guidelines provided. This gives everyone in the supply chain peace of mind.

Designed and Manufactured to Minimise the Amount of Wastage Created on Site

Knauf ThroughWall is designed and manufactured to minimise the amount of wastage created on site, for example metal sections are cut to the required length.

Gypsum, the basic material of plasterboard, is a plentiful and widely available material. It is also widely recyclable, an Knauf and Knauf Insulation have been actively involved in a drive to develop a circular economy for construction products.

Knauf plasterboard includes recycled content. *Recycled Content 11.90% (2023 average by mass for all UK produced plasterboards, recycled gypsum & paper). Knauf Insulation Glass Mineral Wool solutions contain up to 80% of recycled content, and by maximising the amount of recycled glass cullet in the manufacture of our products, we minimise our need for mineral raw materials. Our unique bio-based binder, ECOSE® is Knauf Insulation's plant-based binder. It is low-carbon and low-VOC, so it can be used to create better buildings – for occupiers, for installers and for the planet. ECOSE® provides the proven sustainability performance the industry needs, backed up by extensive testing and certification.

Knauf are committed to reducing our environmental impact, being a responsible business, and acting with future generations in mind.

All major components in the system are produced in the UK.

ARCHITECT

Design Flexibility

The Knauf ThroughWall system is one integral part of the overall external wall system build-up. It can provide design flexibility to accommodate various cladding options. The various cladding and associated component options must be checked to ensure required testing and regulatory requirements are met.

Bespoke Technical Support

Knauf can offer a full SFS Design Service to suit the architect's needs. The range of design options include early indicative SFS design leading up to full elevated

panel designs. In addition, bespoke specifications can be produced to capture the various project specific technical performance criteria. BIM models of the SFS can also be produced. By working with the architect at an early stage, this allows Knauf to work closely with other trades to minimise potential site issues such as 'design clashes'.

Accredited Products

In addition to the BBA certification for the ThroughWall full system, individual component products also have BBA certification, these include: Knauf Insulation Rocksilk RainScreen Slab and Knauf Windliner. Furthermore products that can be used for providing exterior finishes to the Knauf ThroughWall system also have the BBA certification: Knauf AQUAPANEL® Exterior System and Knauf AQUAPANEL® Render onto the Knauf AQUAPANEL® Exterior System. Specification of the Knauf ThroughWall system and associated products can be given knowing that performance has been independently confirmed.



MAIN CONTRACTOR

Simple and Faster Build

Full up-front design by one manufacturer should simplify the construction process because all documentation is provided by one source. This means that there is less time wasted having to coordinate manufacturers and deliveries.

Knauf System Performance Warranty

System compliance (to ensure system performance warranty) can be easily checked with only one manufacturer's products needing to be identified on site. Build times will be shorter, with products delivered that are ready for use for example cut-to-length metal profiles.

(\underline{f}) Cost Savings

There can be cost savings at every stage including co-ordinated deliveries to site with all products coming from a single manufacturer and less time encountered liaising with multiple manufacturers.

In terms of the products, the Knauf ThroughWall system can negate the need for a breathable membrane in most circumstances due to its water and water vapour resistance.

Specialist Product Benefits

Knauf Windliner seals the building envelope. Once installed with the Knauf Windliner Tape, the building can be left for up to 6 months before the external finish is applied allowing internal works to proceed whilst the external face is finalised. Knauf Windliner also offers resistance to water vapour, thus negating the need for a separate breather membrane in most circumstances.

In terms of the internal finishes that work with the ThroughWall system, Knauf ready-mixed products offer high productivity and low waste.

One such product is Knauf Airless Finish, a ready-mixed spray alternative to gypsum plaster. There is very little waste with Knauf Airless Finish as material removed during the leveling process can simply be put back into the hopper and reused.

How Knauf can help your project?

The features and benefits of the Knauf ThroughWall system are evident from the moment the products become part of a sketch on a designer's page, to the point they are installed as part of a finished building and beyond.

Stak	eholders			Process	Knauf Support	Lead Time (in weeks)
				Initial Scoping of Project	This is the stage where we meet designers to discuss and present the available options	
				Surveys and Brief	At this stage we gather the performance constraints to allow us to do the concept design	
				Concept Design	An indicative design is created by our in-house design team. The design is discussed and amended if needed in consultation with the Knauf Design Team and finally approved by all stakeholders	1
				Final Design	At this stage the indicative design has been approved and final drawings are produced	4
				Technical Realisation of Design	Here we work closely with the designers and contractors to get the drawings to construction status A	4-8
				The Build	Here we offer on-site technical support on design and installation	1-2
				Project Handover	At this stage we can provide the design specification pack and supporting documentation on calculations	1-2
Architect	Project Engineer	Main Contractor	Installer			

Knauf ThroughWall System BBA Certificate

with full BBA certification (number 20/S046), examples of which are shown on pages 12 & 13.

Knauf also have several standalone product BBA Certifications including Knauf Windliner Sheathing Board (17/5442) and Knauf Insulation Rocksilk RainScreen Slab (19/5609), both of which form key components of the Knauf ThroughWall BBA Certification.

Full details of the scope of any of the above mentioned BBA certifications can be found within the document numberslisted.







System performance

Knauf ThroughWall System with 2 x 12.5mm Knauf Fire Panel

1 External Insulation Knauf Insulation Rocksilk RainScreen Slab

Sheathing Board 1x12.5mm Knauf Windliner

Infill Insulation Knauf Insulation OmniFit Slab 35 or OmniFit Roll 34

Steel Frame Knauf Steel Frame System (SFS)

Internal Plasterboard* 2x12.5mm Knauf Fire Panel

Fire Resistance

BS EN 1364-1 EI90 min (Inside to Outside) EI120 min (Outside to Inside)

Sound Insulation BS EN ISO 10140-2

53-61 dB** Certification

BBA approved

U-value BS EN ISO 10211. BR443 0.19-0.32 W/m2K



analysis and project requirements.

**Acoustic performance based on combination of all Knauf ThroughWall products types and sizes.

Note: System performance based on imperforate system. Where openings, service penetrations are installed, this will need to be independently assessed.

	U-value 0.19W/m2K	U-value 0.22W/m2K	U-value 0.32W/m2K
	150mm Knauf Insulation Rocksilk® RainScreen Slabtightly fitted around 'helping hand' brackets	75mm Knauf Insulation Rocksilk® RainScreen Slab tightly fitted around 'helping hand' brackets	75mm Knauf Insulation Rocksilk® RainScreen Slab tightly fitted around 'helping hand' brackets
¥- = × · · ·	1x 12.5mm Knauf Windliner	1x 12.5mm Knauf Windliner	1x 12.5mm Knauf Windliner
	100mm x 1.2mm gauge Knauf SFS Stud 600mm centres 100mm Knauf Insulation OmniFit® Slab 35 tightly fitted between SFS Studs	150mm x 1.2mm gauge Knauf SFS Stud 600mm centres 150mm Knauf Insulation OmniFit® Slab 35 tightly fitted between SFS Studs	100mm x 1.2mm gauge Knauf SFS Stud 600mm centres 100mm Knauf Insulation OmniFit® Slab 35 tightly itted between SFS Studs
	2 x 12.5mm Knauf Fire Panel	2 x 12.5mm Knauf Fire Panel	2 x 12.5mm Knauf Fire Panel



Knauf ThroughWall System with 2 x 15mm Knauf Fire Panel



BBA approved

U-value BS EN ISO 10211, BR443 0.20 W/m2K







system. Where openings, service penetrations are installed this will need to be independently assessed.

System performance – building regulations

We have a wide range of variations to the Knauf ThroughWall system to cater for many different requirements such as structural, fire, thermal and acoustic properties, whilst complying to the relevant building regulations.

The below table extract provides a summary of the respective fire resistance requirements for national building regulations and technical handbooks/standards in the case of new build buildings of multiple occupancy.

Purpose to show the various fire resistance periods for certain building heights against location.

The table focuses on Fire Resistance: Integrity and Insulation - for requirements and applications of nonloadbearing exterior wall systems only. We would recommend consulting the various documents for full information in all cases.

		External wall less from a boundary ¹	s than 1m		External wall more than 1m from a boundary ¹		
		Fire resistance per	iod (mins)**	Exposure	Fire resistance per	iod (mins)**	Evpocuro
	Height of building*	Integrity	Insulation	Exposure	Integrity	Insulation	Exposule
_	≤ 5m	30 or 60	30 or 60	Each side separately	30 or 60		From inside the building
England, Wales & N	≤18m	60	60	Each side separately	60		From inside the building
	≤ 30m	90	90	Each side separately	90	15 min	From inside the building
	≥ 30m***	120	120	Each side separately	120		From inside the building
_	≤ 7.5m	30	30	Each side separately	30	0	From inside the building
Scotland	≤11m	60	60	Each side separately	60	60	From inside the building
••	11m to 60m	90 or 120	90 or 120	Each side separately	-	-	-
	< 20m	60	60	Each side separately	30		From inside the building
Ireland	< 30m	90	90	Each side separately	60	15	From inside the building
_	> 30m***	120	120	Each side separately	120		From inside the building

¹Such walls may contain areas that do not need to be fire resisting (unprotected areas). Refer to appropriate regulations/technical auidance/handbooks

* from ground or upper storey

** referance in accordance with purpose group of building and test methodology with regulations/technical guidance/handbooks

*** with the inclusion of sprinklers

Note: Different fire resistance performances are available subject to use of sprinklers within buildings – refer to applicable regulatory documents for further information.

Referance material

Approved Document B V2 - Building Regulations 2010 for England (2019 edition) Approved Document B V2 - Building Regulations 2010 for Wales (2016 amendment) Technical Handbook Non-Domestic - Scotland

Technical Booklet E - Building Regulations 2012 for Northern Ireland

Technical Guidance Document - Building Regulations 2006 for Ireland

Note: The above table provides an abstract summary of requirements for applications of non-loadbearing elements and is correct as at the time of publication. Regulation documents should be referred to in all cases to understand all requirements. Please consult latest published standards when available.



System components – internal finishing options

					Applicati	on			Bag Details		
					Bedding Coat	Finish Coat	Patching & Repair	Material No.	Sizes available	Coverage	Shelf Life
				Knauf Fill & Finish 30/60 Premium A fast setting multi-purpose gypsum-based compound for bedding tapes and beads as well as finishing. Available in 30 or 60 minute working time options.	*	*	*	622329 622332	10kg	45m²	9 months
		Hand Applied	DOINT FILLER BELLUNA	Knauf Joint Filler Premium A fast-setting gypsum compound for bedding joints by hand application. 90 minutes working time.		×	*	622340 622342	10kg 20kg	55m² 110m²	9 months
Powdered		_	KANT FORT CARANT	Knauf Joint Cement Premium A fast-setting gypsum compound for bedding joints by hand application. 90 minutes working time.	~	*	×	622337	20kg	80m²	12 months
Ready-mixed		Hand / Machine Applied	Interior Fill & FINISH Fill & FINISH State The States States	Knauf Fill & Finish Light Lightweight ready-mixed compound for bedding tapes and finishing joints in drywall partitions and ceillings.	¥	*	*	601462 601440	5kg 20kg	11.25m ² 45m ²	12 months
					White finish	Thickness (1 layer)	Tip Size	Material No.	Sizes available	Coverage	Shelf Life
Ready-mixed	Air-drying	Hand / Machine Applied	Anisa sinala Anisa sinala Anisa sinala	Knauf Airless Finish Substrate/purpose: wallboard, smooth concrete and previously decorated surfaces.	¥	1–2mm	531-535	470362	25kg	0.8- 1.5kg / m²*	12 months

*Depending on thickness of application and substrate

System components – plasterboard range

		Fire Panel	Performance Plus	Wallboard	Vapour Panel	Moisture Panel	Soundshield Plus
1						0,	
	Description*	Enhanced fire resistance	High levels of sound, moisture, fire and impact resistance.	Strong and versatile, it is a cost effective choice for partitions, linings and ceilings with standard performance requirements	Creates an effective vapour barrier to limit moisture diffusion	Enhanced moisture resistance. (Use with Knauf Betokontakt when applying plaster skim)	Enhanced sound performance as well as impact and fire resistance.
	Edge Type	SE, TE	TE	SE, TE	SE, TE	SE, TE	TE
	Thickness / weight (kg/m2)"	12.5mm/10 15mm/12	12.5mm/11.5 15mm/12.8	9.5mm/6.1 12.5mm/8.1 15mm/10.1	12.5mm/8.1 15mm/10.1	12.5mm/8.8 15mm/10.2	12.5mm/11.5 15mm/13.3
	Widths (mm)	900, 1200	1200	900, 1200	900, 1200	1200	1200
	Lengths (mm)	1800, 2400, 2700, 3000	2400, 3000	1800, 2400, 2438, 2500, 2700, 3000	1800, 2400, 2438, 2700, 3000	2400, 2700, 3000	2400, 2700, 3000
	BS EN 520 designations	A&F	A, D, F, H1, I & R	A	BS EN 14190	A&H2	12.5mm A & D 15mm A, D, F & I
	Thermal conductivity	0.25W/mK	0.25W/mK	0.19W/mK	0.19W/mK	0.25W/mK	0.25W/mK

Key

A Standard plasterboard

Gypsum plasterboard with controlled density D

Improved core adhesion at high temperatures F

Н Reduced water absorption rate

Gypsum plasterboard with enhanced surface hardness 1

R Gypsum plasterboard with enhanced strength



* Performances of plasterboards are based on product characteristics and system testing using Knauf components

** Plasterboard weights stated exclude packaging. Weights are for guidance purposes only and are subject to change.

For details of available combinations of thickness, length and width, please refer to the current Knauf Drywall Price List or **knauf.co.uk**

Square Edge – SE

Tapered Edge – TE



System components – steel frame

"C" section and "U" section components are formed from pre-hot dipped galvanised steel to BS EN 10346:2015, Grade S450 + zinc coating Z275 g/m².

Guaranteed minimum yield strength = 450 N/mm² or greater.

Ancillary components including angles, cleats, brackets and "Z" bars are formed from pre-hot dipped galvanised steel to BS EN 10346:2015. Grade S390 + zinc coating Z275 g/m².

Guaranteed minimum yield strength = 390 N/mm² or greater.



Knauf SFS 'C' Stud

Galvanised solid metal stud available in a range of different sizes and gauges, in custom cut lengths from 600mm upwards. Minimum order quantities apply.



Knauf SFS 'U' Track

Galvanised solid steel 'U' section for use as the standard base track for Knauf SFS systems. Minimum order quantities apply.



Knauf SFS Slotted 'U' Track

Galvanised slotted steel deep 'U' section for use as the standard deflection head track for Knauf SFS systems. Knauf SFS Slotted 'U' Track is available in both 3m and 4m lengths. Minimum order quantities apply.



Knauf SFS 'Z' Bar

For use at the head and base of SFS panels where the SFS frame overlaps the footprint of the structure.



Knauf SFS Angle Section

There are two types of angle section; equal legged and unequal legged. Both are used for general building works. The equal legged Knauf SFS Angle Section is also used for connections between lintels and cills to jambs. The unequal legged Knauf SFS Angle Section is mainly used as a support to sheathing boards on the external face of the SFS system. There is also the option of a Slotted Angle Section.



Knauf SFS Flat Bracing Strap

Galvanised solid steel flat strap used below head tracks in deflection heads and for lateral frame bracing where required.



Knauf SFS Parapet Post

The Knauf SFS Parapet Post enables various parapet and wind post solutions.



Knauf SFS Oversail Cleat

The Knauf SFS Oversail Cleat enables the construction of SFS Oversail systems. These cleats are affixed to the primary structure and support the Oversail SFS frame.

Knauf SFS Cill Plate

The Knauf SFS Cill Plate supports heavy elements such as cantilevered windows fixed within the infill aperture.



Knauf SFS Cleat

The Knauf SFS Cleat is a bracket that joins the SFS assembly to the steel or concrete structure.

For fixing of components, please refer to the project specific ThroughWall specification

System components – SFS fixings

All fixings stated are recommendations only. All connections from the frame to any interfacing structure or material must be checked for suitability and design by Knauf.





Knauf SFS Screws - Hex Drive Bit An 8mm hex drive bit required for use with Knauf SFS Framing Screws (Hex Head).



A screw for fixing Knauf SFS to hot rolled steel substructures.



Knauf SFS Screws – Concrete A hex headed screw for fixing Knauf SFS to concrete substructures.



Knauf SFS Screws – Boards



Knauf Drywall Screws – Jackpoint Self Drilling

Self-drilling black phosphate screws with countersunk Ph2 heads for fixing plasterboard to metal frame 0.7mm to 1.2mm thick.

For more detailed information regarding individual product characteristics, please refer to the Knauf Exterior Systems Price List or contact Knauf Technical Services.

Pre-drilling of top and bottom track may be required. For full details, please refer to the ThroughWall Project Specific specification.

Knauf SFS Framing Screws (Low Profile Head or Hex Head)

Frame stitching screws. Up to 3.2mm steel thickness. 1000 hour salt spray corrosion resistance.

Knauf SFS Screws - Steel (Low Profile Head or Hex Head)

Screws with countersunk heads and a wing tip for fixing internal plasterboards to a Knauf SFS Frame.

System components – steel frame

Knauf Insulation OmniFit[®] Slab 35

An A1 non-combustible multi-application glass mineral wool slab, manufactured using Knauf Insulation's unique ECOSE® Technology, and designed for use in multiple applications in both timber and steel frame construction to allow flexibility across projects.



Dimensions (mm) Pack Details				Performance						
Length (mm)	Width (mm)	Thickness (mm)	Slabs per pack	Area per pack (m²)	Packs per pallet	Thermal Resistance (m²K/W)	Thermal Conductivity (W/mK)	Euroclass Reaction to Fire classification	Vapour Resistance	Density
		150	4	2.88	32	4.25	0.035	A1 Water vapour resistivity: 5.00MNs/g.m		
		140	4	2.88	36	4.00			Water vapour resistivity:	Minimum
		100	6	4.32	32	2.85				
1200	600	90	6	4.32	36	2.55				
1200		75	8	5.76	32	2.10	eurofins 2			1 Qkg /m ³
		70	8	5.76	32	2.00	GOLD CO		5.00Mill/9/g.m	LOKY/III
		50	12	8.64	24	1.40				
	400	140	4	1.92	48	4.00				

Knauf Insulation OmniFit® Roll 34

An A1 non-combustible multi-application glass mineral wool roll, manufactured using Knauf Insulation's unique ECOSE® Technology, and designed for use in multiple applications in both timber and steel frame construction to allow flexibility across projects.



Knauf Insulation Rocksilk® RainScreen Slab

An A1 non-combustible rock mineral wool slab, manufactured using Knauf Insulation's unique ECOSE® Technology and designed for use in RainScreen façade systems both below and above 18m in height.



Dimensions (mm)			Pack Details			Performance					
Length (mm)	Width (mm)	Thickness (mm)	Area per pack (m²)	Pieces per pack	Packs per pallet	Thermal Resistance (m²K/W)	Thermal Conductivity (W/mK)	Euroclass Reaction to Fire classification	Vapour Resistance	Wind Load	
		250	1.44 2 10 7.35								
		210	1.44	2	12	6.15	0.034	A1	Water vapour resistivity: 5.00MNs/g.m		
		200	1.44	2	12	5.85					
		180	2.16	3	10	5.25				Wind fatigue	
1200	600	150	2.16	3	12	4.40	SOR NR COLLES			testing:	
		120	2.88	4	10	3.50	GOLD FROM			3.6kPa	
		100	2.88	4	12	2.90					
		75	4.32	6	12	2.20					
		50	5.76	8	12	1.45					

For more detailed information regarding individual product characteristics, please refer to the Knauf Exterior Systems Price List or contact Knauf Technical Services.

System components – SFS fixings

Knauf Windliner

Knauf Windliner is a specialist gypsum-based external-grade sheathing board specifically designed for use with external wall systems. It is easily identifiable by its terracotta external paper finish. Suitable for use with Knauf ThroughWall systems. Provides protection against the weather for the outer face of the Knauf SFS Stud.

Dimensions (mm)		Weight (kg/m²)	Thickness	Density	Edge type	Material No.	Pallet details
Length	Width						
2400	1200	10	12.5	800kg/m ³	Square edge	278923	56 boards/pallet (1.62 tonnes)

Technical Characteristics	Standard	Knauf Windliner Performance
Density (kg/m ³)	N/A	800
Flexrual Strength – Longitudinal Direction (N)	BS EN 520:2004	>550
Flexrual Strength – Traverse Direction (N)	BS EN 520:2004	>210
Reaction to Fire	BS EN 13501-1:2007	A2-s1,d0
Thermal Conductivity (W/mK)	BS EN 12667:2001	0.24
Water Vapour Resistance (MNs/g)	BS EN ISO 12572:2001	0.5
Water Vapour Resistance Factor (µ)	BS EN ISO 12572:2001	6.6
Water Uptake (2hr Immersion) (%)	BS EN 520:2004	<5

Knauf Windliner Screws*

Specialist terracotta-coloured low profile headed screws for attachment of Knauf Windliner boards to the solid steel frame. Available in 25mm and 38mm lengths, and offer 500 hour salt spray corrosion resistance.

Dimensions (mm)			Material No.	Weight	Corrosion resistance	Reaction to fire
Length	Diameter	Fixing capacity	Material No.	kg/lm (Approx.)	Salt spray corrosion resistance	
25	3.5	13	525996	2.91	F00 hours	Al
38	3.5	26	525997	3.26	500 10015	EN 14566:2008+A1:2009

Knauf Windliner Tape

Airtight and weather resistant tape for sealing joints on the Knauf Windliner sheathing boards. Highly UV and moisture resistant. Knauf Windliner Tape is classified as a 'seal' and is exempt under Regulation 7(3) in England and Wales. Subject to be used in accordance with Knauf recommendations.

Dimensions		Material No.	Weight
Length (m)	Width (mm)	Material No.	kg/lm (Approx.)
25	60	525459	2.91
25	100	610524	3.26

*When Fixing board through over 3mm of SFS stud work it is recommended to predrill the steel before using Windliner screws to fix board to studs. For more detailed information regarding individual product characteristics, please refer to the Knauf Exterior Systems Price List or contact Knauf Technical Services.







System components – exterior finishing options





- Vapour control layer (by others if required)
- Knauf SFS frame

Knauf Insulation OmniFit® Slab 35 or OmniFit® Roll 34 (to suit specification)

- Knauf Windliner
- Knauf Windliner Tape

Knauf Insulation Rocksilk® RainScreen Slab (to suit specification)

- Brick tie system (by others)*
- Brick cladding system (by others)*
- Knauf Plasterboard (as per specification)
- Vapour control layer (by others)
- Knauf SFS frame
- Knauf Insulation OmniFit® Slab 35 or OmniFit® Roll 34 (to suit specification)
- Knauf Windliner
- Knauf Windliner Tape
- Knauf Insulation Rocksilk® RainScreen Slab (to suit specification)
- Cladding rail support system (by others)*
- Rainscreen cladding system (by others)*

uf Plactorhoard (as por specification)



±	Riadi Plasterboard (as per specification)
2	Vapour control layer (by others if required)
3	Knauf SFS frame
4	Knauf Insulation OmniFit [®] Slab 35 or OmniFit [®] Roll 34 (to suit specification)
5	Knauf Windliner
6	Knauf Windliner Tape

- Knauf Insulation Rocksilk® RainScreen Slab (to suit specification)
- Cladding rail support system (by others)*
- Knauf AQUAPANEL® Cement Board Outdoor
- Render System (by others)

Note: Consult Knauf Technical Services to ensuresystem is checked for suitability of project.

*The various cladding and associated components must be checked to ensure the required testing and regulatory conformity are met.

Knauf ThroughWall data and approvals are based upon the properties of Knauf elements. As brick tie channel systems and rainscreeen cladding systems sit outside of the system, guidance should be taken from the manufacturers of these systems in terms of structural performance.

are available in the following areas:

- Site assistance



Look to the future – Build on us

We recognise the importance of the buildings in which we all live, work and relax.

We spend 90% of our lives inside buildings, so it is of the utmost importance that the homes we live in, the hospitals where we care for our sick, the schools in which we educate our children and the offices in which business operates are world class, safe, comfortable, sustainable and enjoyable.

The extensive portfolio of products and systems from Knauf UK & Ireland is developed to support that vision. As a business, we look to the future; building on the knowledge we have acquired with a planned programme of research and development to make sure we continue to keep ahead of current thinking.

In terms of our operation we work hard to minimise our impact on the environment and are proud of our recycling, waste reduction and energy efficiency initiatives.



Healthcare



Residential



Education



Commercial

CITB Accredited Training Organisation

The Learning Zones at Immingham and Sittingbourne are CITB approved training facilities and offer various courses for the construction industry. We believe in future-proofing and protecting the workforce.

We provide the best possible training on the large variety of systems and products that we supply, and make our courses widely available to those who request them. Whether the trainees are already skilled tradespeople, wishing to add to their existing knowledge, or people with no previous experience, there is a course in our range to benefit all.

We are happy to advise on the suitability of different courses and the content can be adapted to suit the requirements of the delegates.

All work carried out on the Knauf courses will be in a simulated site environment, and to industry standards, using British Standard and European Codes of Practice for accuracy and finish.

Contact us to find out more about the latest courses available.

Courses available

Drylining – Direct bonding and metal lining systems

Fire protection – Encasement systems

General overview of interior products and systems

Metal stud partitions, shaft wall, wall linings

Metal suspended ceiling systems

Flooring – Brio and GIFA systems

Façades – Steel framing systems

Taping and jointing

AQUAPANEL® Indoor and Outdoor

Passive fire protection

Demountable ceiling systems

Drywall for site managers / Quality Control

Airless spray finishing

Telephone: 01795 424499 Email: technical-uk@knauf.com Website: knauf.com





KNAU







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