CI/SfB | | (42) | Rf9 | |
May 2018

CEMBRIT

Rainscreen Cladding

Product range and installation summary

Your choice. In addition to the range of colours and shades, Cembrit cladding boards are available in four compositions, each with distinctive performance and characteristics.

Cembrit Patina

“A” rated board. Cembrit Patina is a homogeneous practical rainscreen cladding. It is treated with a dirt and water repellant which prevents staining and means the sheet does not need sealing, Available in 11 muted tones, with a fine directional grain, Patina is the cladding board of choice from the Cembrit range.

Cembrit Solid

"A" rated, Intensely pigmented, acrylic coated board, where the surface colour is paired with the tinted base board. This colouration method creates a tough, colour rich cladding board. Cembrit Solid incorporates the most popular shades with some accents for highlighting your façade.

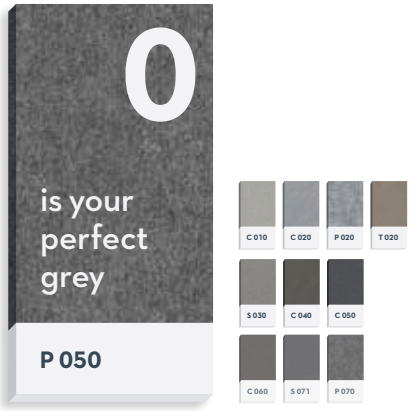
Cembrit Cover

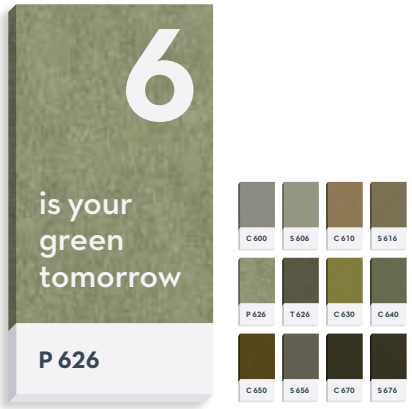
An "A" rated, coated decorative fibre cement rainscreen cladding, in 26 striking standard colour options and more than 2000 made to order NCS®© colours available subject to quantity and extended lead times.

Cembrit Transparent

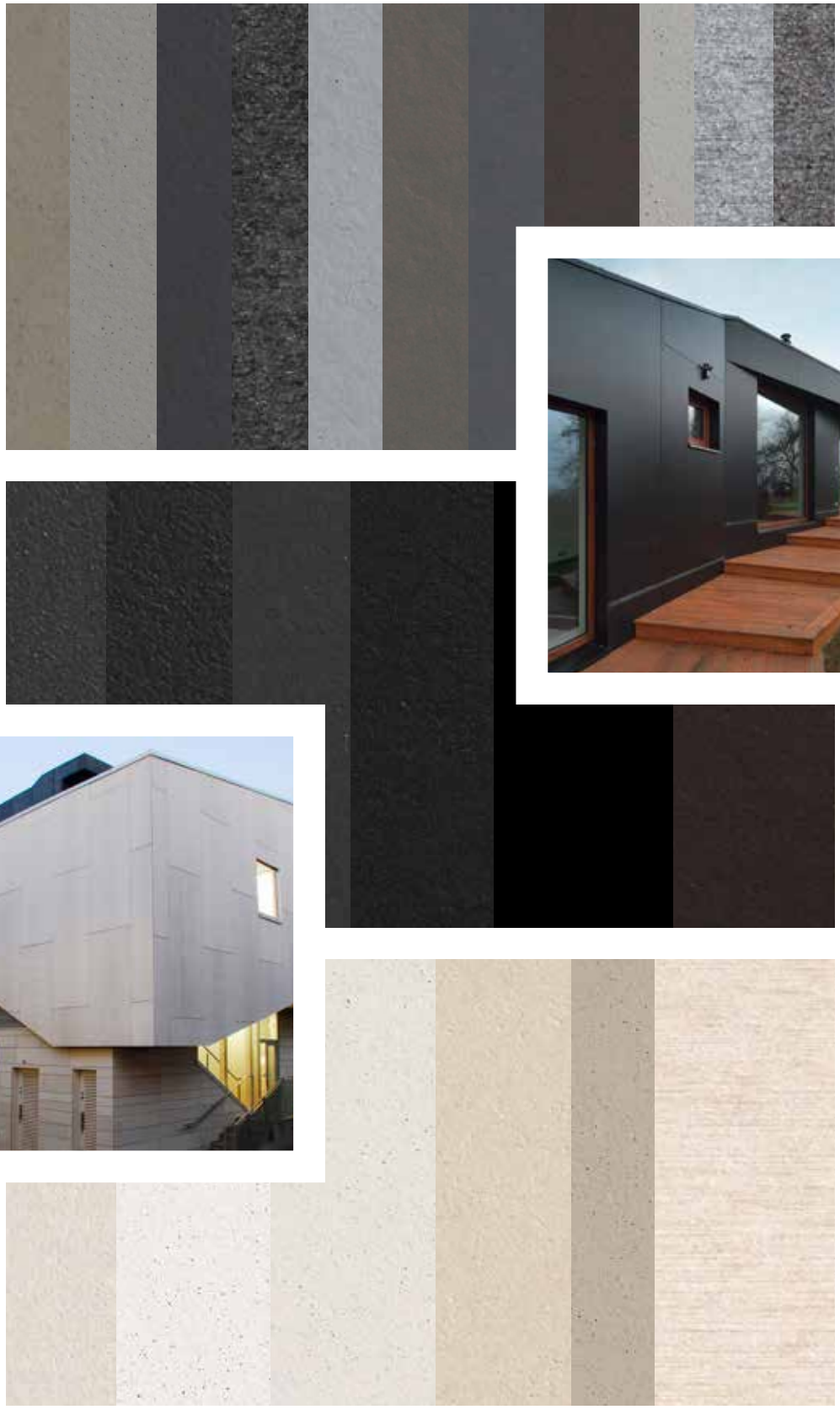
“A” rated decorative rainscreen cladding. Tinted translucent top coat, on a matching pigmented fibre cement base makes Cembrit Transparent a through-coloured cladding board. Sophisticated satin surface with the durability of a through coloured cladding, in a range of 13 rich, natural earth shades.

Cembrit Facade Solution - Full (Standard) Colour Range



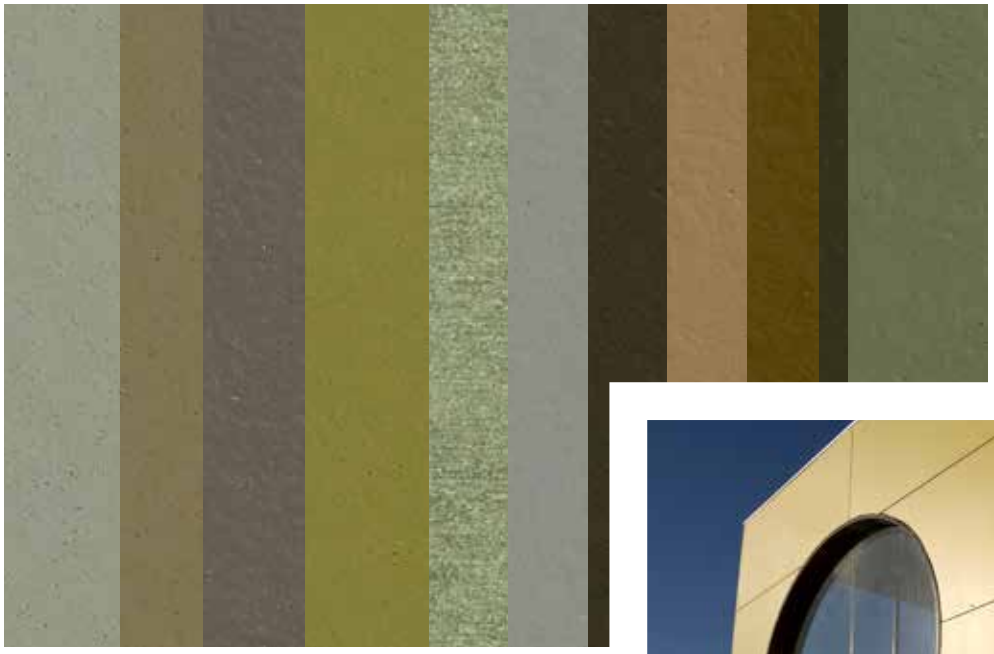


Grey and Black References



Red and Yellow References

Green and Blue References



Rainscreen cladding, how it works and how it is installed

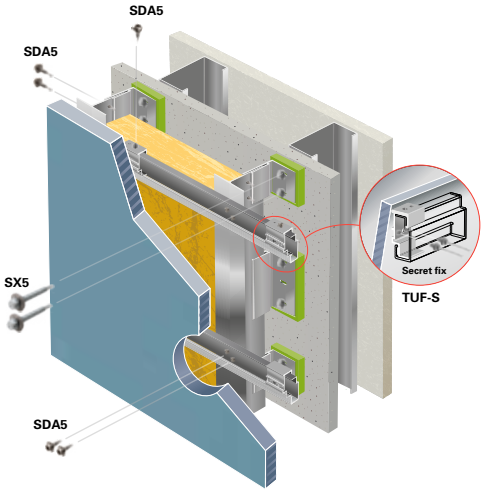
Rivet fixing

The use of (and type of) EPDM gasket depends on the framing system specified. Please consult the system supplier.

Structurally bonded adhesive (secret fix)

Rear mounted mechanical anchor (secret fix)

TUF-S secret fix by SFS Intec

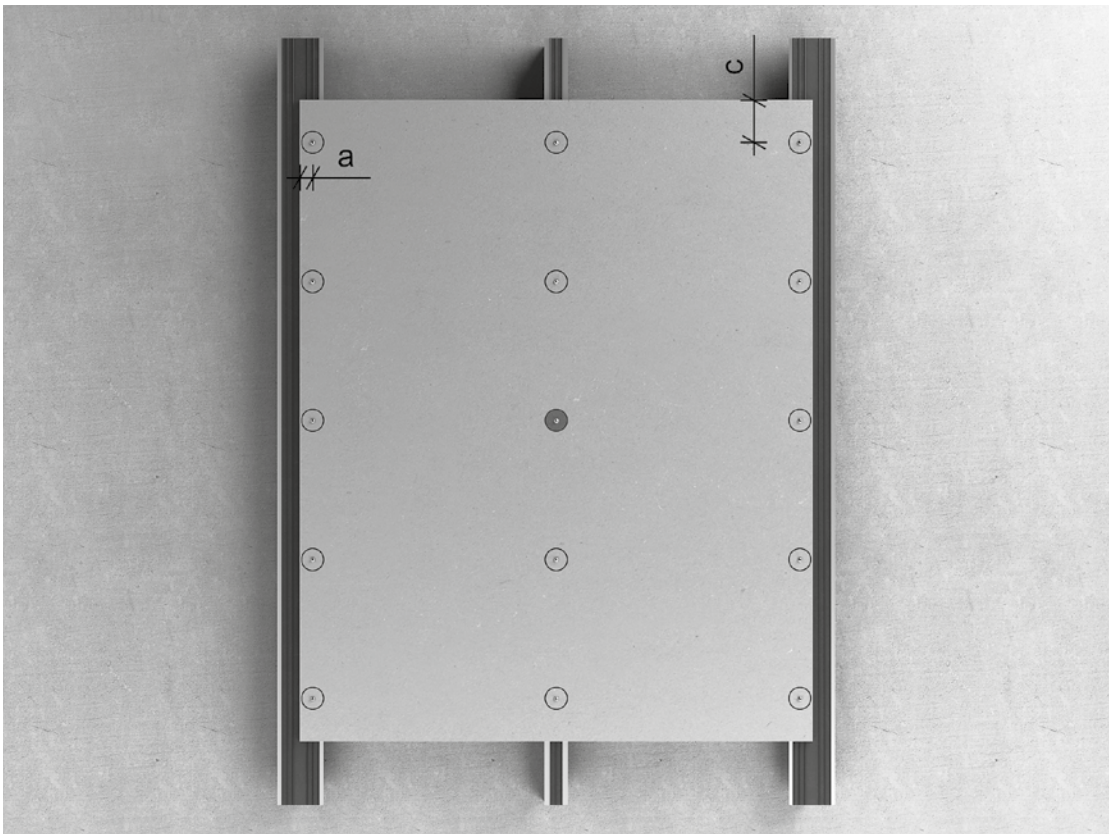


Supports

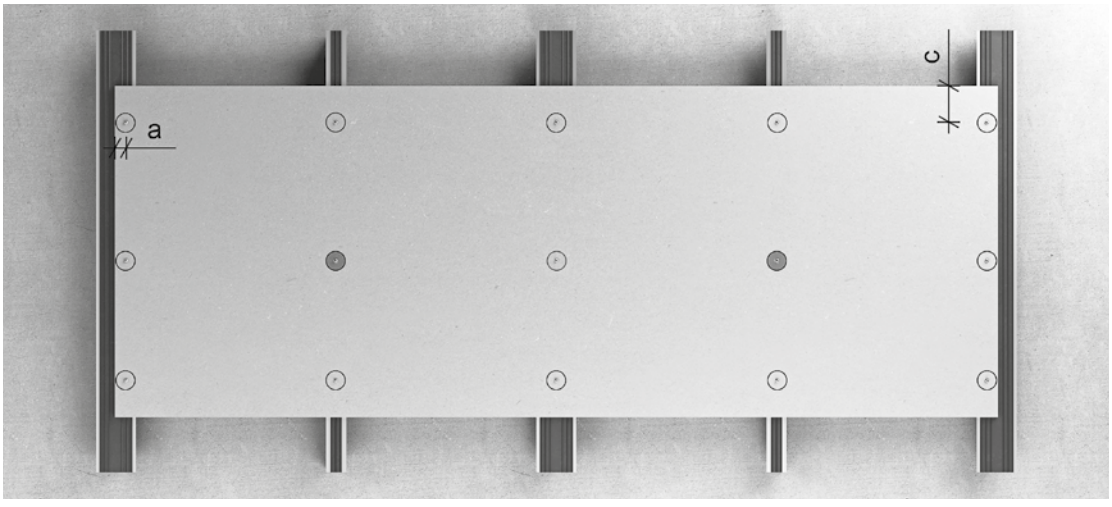
Fixing centres for supports are determined by wind load calculations for the site and the recommendations of the support system manufacturer. The maximum centres will be 600mm. Centres for the cladding's sliding fixing are also calculated by the engineer based on the site wind load and the recommendations of the support system supplier.

Fixings

The first rivet takes the weight of the board. It is placed centrally. A spacer is used to ensure a fixed point. All other rivets are inserted using a stand off-head tool to allow movement. After installing the central rivet install rivets above and then below the central fixing.



● Central fixing ○ Peripheral fixing

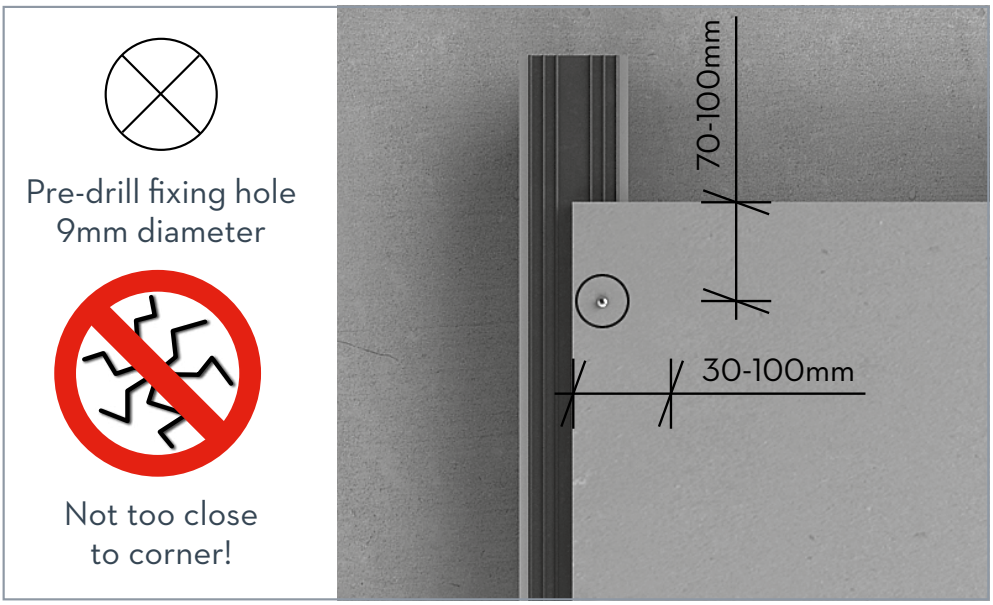


● Central fixing ○ Peripheral fixing

Expansion gaps

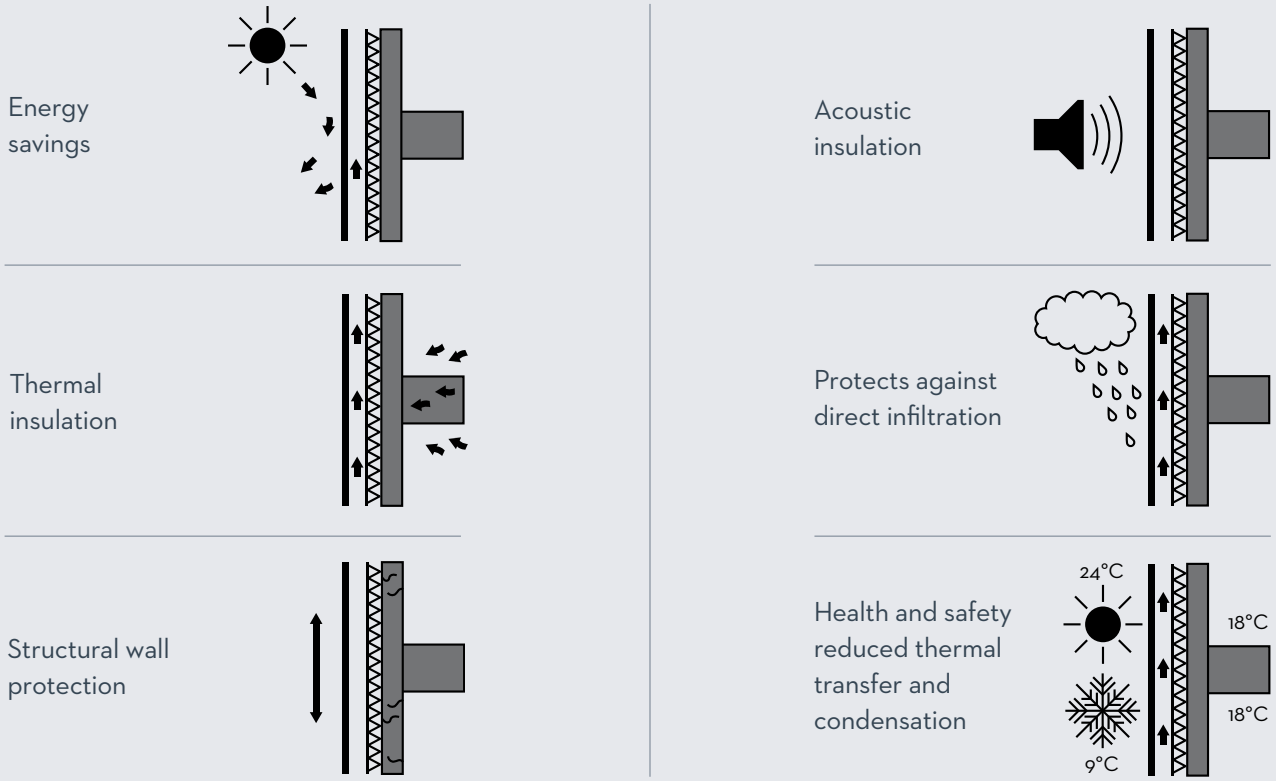
The aluminium rails should be a minimum of 3m long. The butt joints of the rail should coincide with butt joints in the decorative cladding boards. The boards should never cross the joints in the rails as this will prevent movement in the system.

Rivets should not be positioned too close to corners or board edges due to the risk of cracking. Fixing centres will vary according to local wind loadings.



The basic ventilated facades principle

The self-ventilating facade is a physical construction which contributes to reducing temperature variations and moisture in the wall throughout the year.



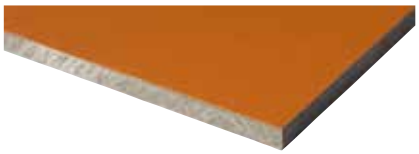
Fixing Details

Thickness mm	Wind load kN/m²	Fixing hole location on board edges, see diagram on page 9 a mm	c mm
8	1.5	30-100	70-100
8	1.75	30-100	70-100
8	2.00	30-100	70-100
8	2.25	30-100	70-100
8	2.5	30-100	70-100
8	2.75	30-100	70-100
8	3.00	30-100	70-100
8	3.25	30-100	70-100
8	3.50	30-100	70-100

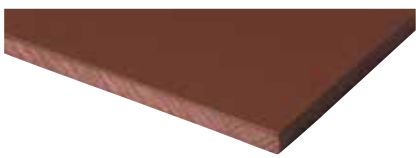
	Drill Holes	
Sub-construction	Drill hole in board mm	Drill hole in sub construction mm
Wood	Ø7	-
Aluminium	Ø9	Ø4.1 (rivet 4.0mm)
Steel	Ø8	-

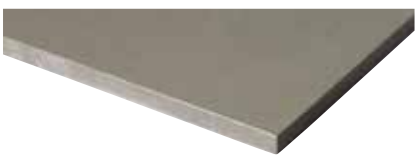
Specifications

	Patina		Cover	
Thickness (mm):	8	8	8	8
Dimensions (mm):	1250 x 2500	1250 x 3050	1250 x 2500	1250 x 3050
Weight per sheet (Kg):	40.8	49.8	49	59.9
Weight per m² (Kg):	13.6	13.6	15.7	15.7
Quantity sheets per pallet:	40	35	40	30
Fire rating:	EN 13501-1:2002:E reaction to fire, class A2-s1,d0		EN 13501-1:2002:E reaction to fire, class A2-s1,d0	
Accreditation:	EN 12467:2004 NT A41, EN 1350-1:2002 A2 s1-d0		EN 12467:2004:E NT A41	



	Solid		Transparent	
Thickness (mm):	8	8	8	8
Dimensions (mm):	1250 x 2500	1250 x 3050	1250 x 2500	1250 x 3050
Weight per sheet (Kg):	49	59.9	49	59.9
Weight per m² (Kg):	15.7	15.7	15.7	15.7
Quantity sheets per pallet:	40	30	30	30
Fire rating:	EN 13501-1:2002:E reaction to fire, class A2-s1,d0		EN 13501-1:2002:E reaction to fire, class A2-s1,d0	
Accreditation:	EN 12467:2004:E NT A41		EN 12467:2004:E NT A41	





Accessories

Cembrit screws for fixing facade boards are made of stainless steel for achieving the highest corrosion resistance. Mushroom head wood screws 4.5 x 36/4 1 are used for wooden structural supports.

The screws have a sharp point and a fast cutting thread which secures a firm fixing with a high pull out value.

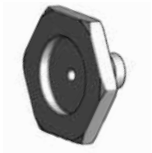
An alternative solution for wooden sub-constructions is the wing screw 4.9 x 38 which is equipped with a drill bit and therefore needs no pre-drilling.

For steel sub-constructions stainless self drilling and thread cutting screws 4.8 x 25 are used. Drilling capacity 1.5-2.5 mm

All screws are delivered plain or in the same colour as the facade boards, and with a Torx 20 bit

On aluminium sub-constructions rivets are most commonly used. Cembrit rivets 4.0 x 19/K14 feature an aluminium body with a stainless steel mandrel. At central fixings sleeve is used to prevent movement of the board.

In order to allow the boards to move freely at peripheral fixing points when influenced by moisture and temperature changes, a stand-off head must be used ensuring a small space between the board and the rivet head. A stand off head is not required at the central fixing point.



For securing the above mentioned free movement of the boards it is of great importance that the drill hole in the aluminium sub-construction and the drill hole in the Cembrit board are concentric. This is ensured by using an assisting tool.

4.1 mm HSS drill for rivets in aluminium profiles.

Special drill bit like TCT Drill (7-8-9 mm) from Irwin Tools for predrilling in the façade boards.

Accessories and fixings are available from a number of 3rd party suppliers including;
Fixfast 01732 882387
www.fixfast.com
Mainline Products UK Ltd
01782 629 270
www.mainlineproducts.co.uk
Plastestrip Profiles 01726 74771
www.plastestrip.com

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