

KNAUFINSULATION

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Heraklith® *Installation Guide*

WHAT YOU NEED TO KNOW

Build on us.

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Safety considerations

STORAGE

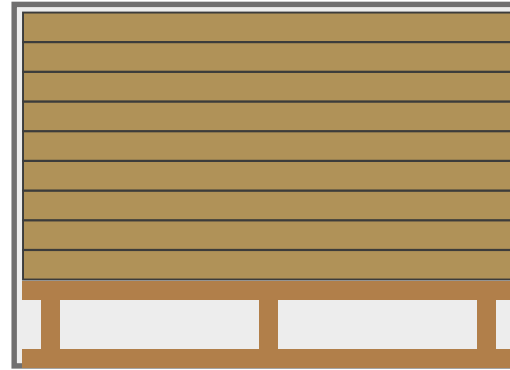
Heraklith® A2 Decorative Panel and Heraklith® Tektalan A2 SmartTec should be stored properly and handled in such a way as to ensure that they are clean and undamaged.

Heraklith® A2 Decorative Panel and Heraklith® Tektalan A2 SmartTec are supplied loose on pallets with a cardboard edge and top protector, designed for short-term protection only. For longer term protection on site, the product should be stored indoors or under cover and off the ground. Heraklith® A2 Decorative Panel and Heraklith® Tektalan A2 SmartTec should not be left permanently exposed to the elements.

The product must be protected from prolonged exposure to sunlight, and also stored dry and flat.



Boards protected from weathering potential while covered



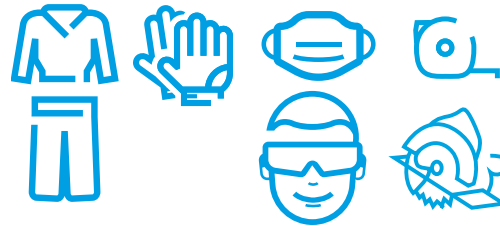
SAFETY EQUIPMENT AND TOOLS

It is recommended that the following Personal Protective Equipment should be used while handling the product:

PPE: Dust mask (FFP1 minimum), gloves, hearing protection if using power tools

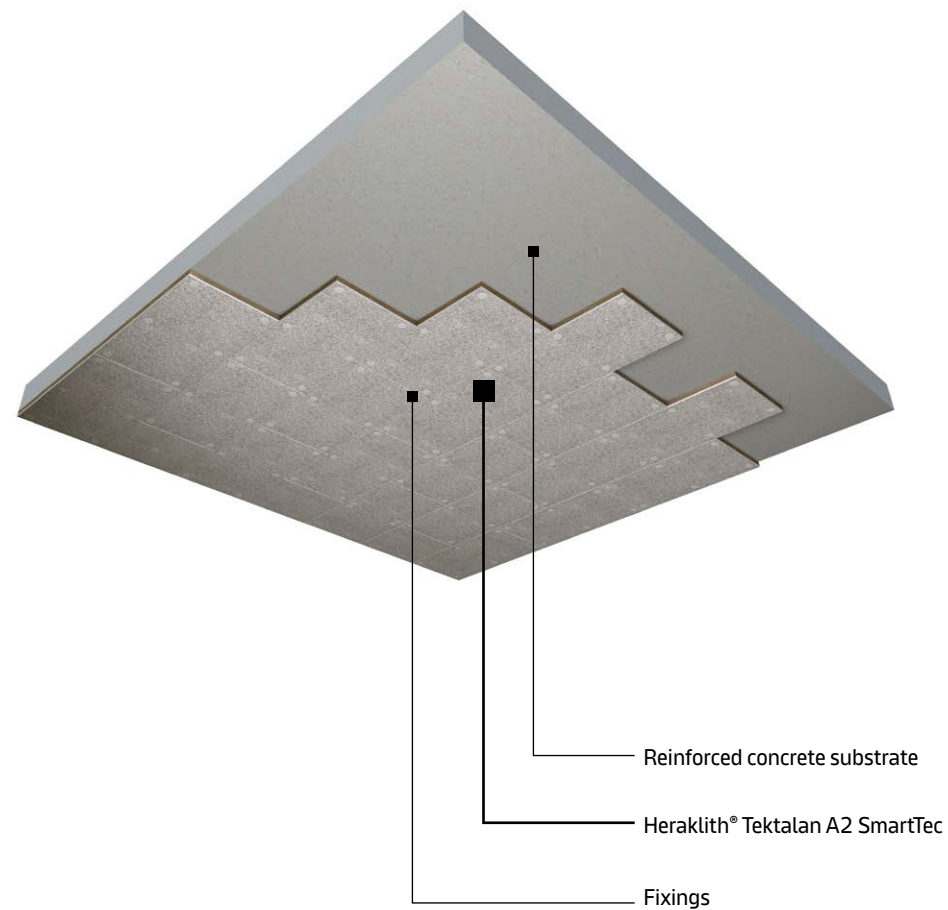
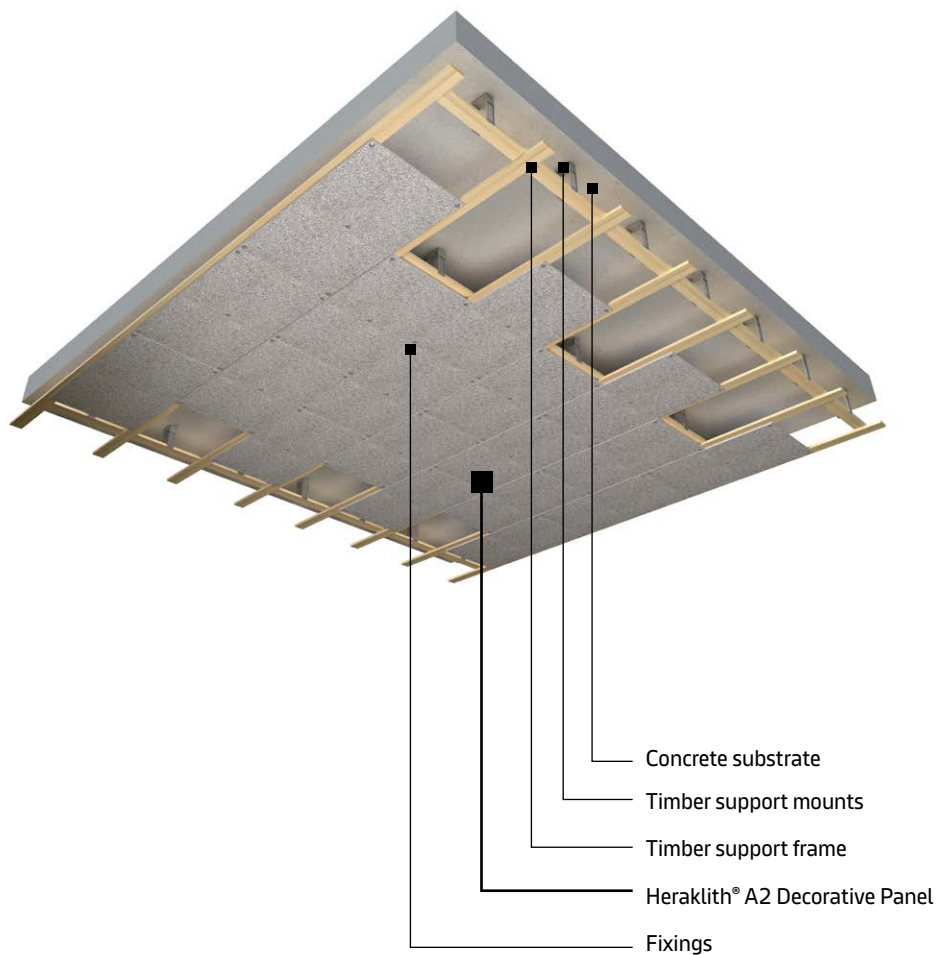
Tools: Circular saw, tape measure

It is recommended that dust masks, gloves and hearing protection if using power tools, should be worn during cutting and handling of the product.



WOODEN LATTICE

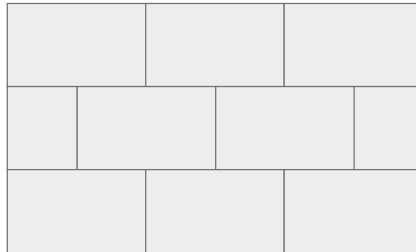
CONCRETE



Pre-installation considerations

LAYOUT

Joints between slabs should be staggered by a minimum of 150mm and coincidental joints should be avoided.



MOUNTING

Fixing patterns should be in accordance with the following principles

Concrete

Heraklith® A2 Decorative Panel (25mm)

- 6 fixings per slab

Heraklith® Tektalan A2 SmartTec

- <100mm – 4 fixings per slab
- >100mm – 2 fixings per slab
- All thicknesses – 5 fixings if REI180 fire resistance is required

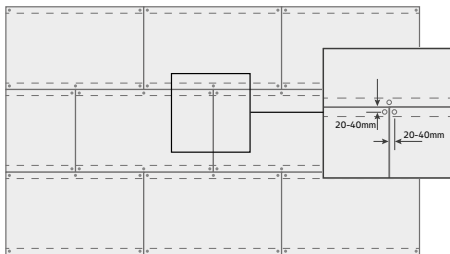
Timber support frame / Metal CD profiles

Heraklith® A2 Decorative Panel (25mm)

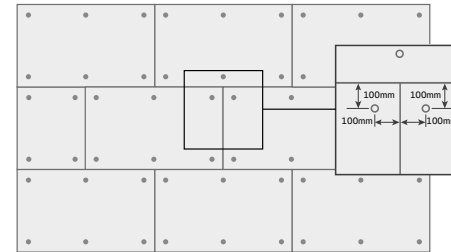
- 6 fixings per slab

Timber support frame / Metal CD profiles

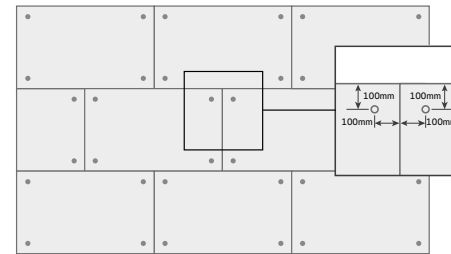
6 fixings Heraklith® A2 Decorative Panel – 25mm thickness



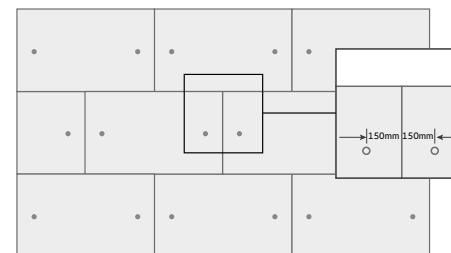
6 fixings Heraklith® A2 Decorative Panel



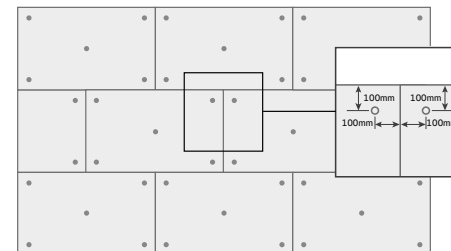
4 fixings Heraklith® Tektalan A2 SmartTec <100mm



2 fixings Heraklith® Tektalan A2 SmartTec >100mm



5 fixings Heraklith® Tektalan A2 SmartTec (REI180)

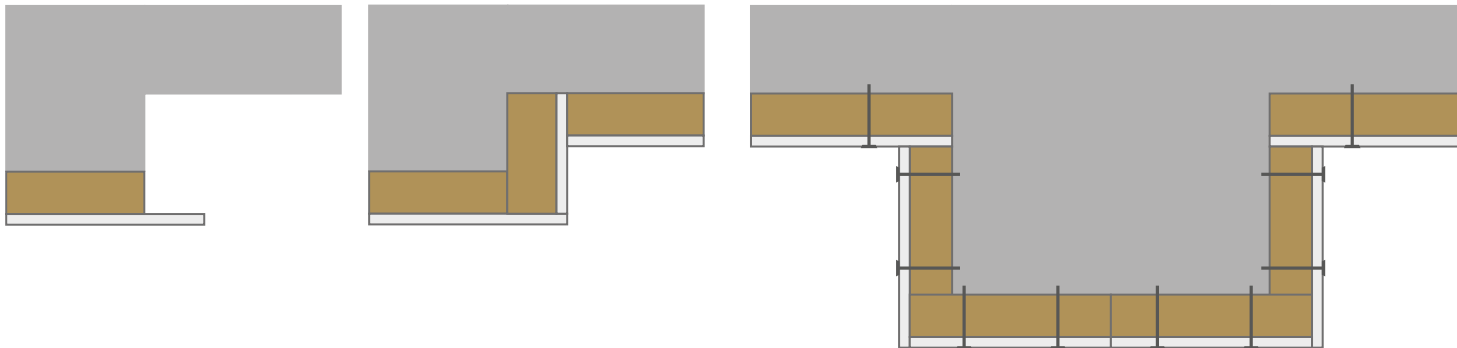


STEPS IN SOFFIT

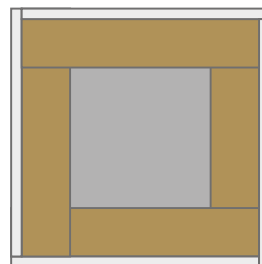
When steps in the soffit are seen using Heraklith® Tektalan A2 SmartTec, the following process should be followed to ensure that the finished installation performs as intended from a thermal and aesthetic perspective.

Firstly, a section of insulation should be trimmed from the edge of the slab, equal to the thickness of insulation being installed. The next slab should then be cut to size to fit into the recess created and the final slab butted tightly to the cementitious facing.

Care should be taken to ensure that all fixings are directly into the soffit substrate and not into other slabs. One metal fixing per board is recommended for all slabs, whether full or sections of slabs.



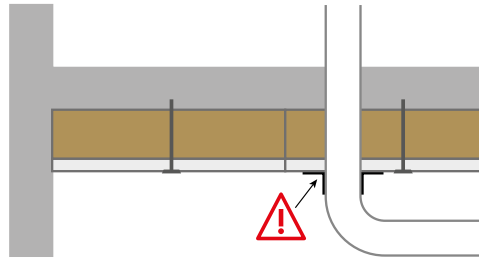
Covering concrete columns should be done using the same approach so that the mineral wool can't be seen at the corners.



Pre-installation considerations

PENETRATIONS

Penetrations should be properly sealed with appropriate fire stopping products in order to maintain periods of fire resistance.



PREVENTING MOISTURE SPOTS

Wood wool panels are in-sensitive to moisture. However, the product coating may turn brown after contact with water. This is caused by the penetrating water dissolving the wood pigments and moving them to the visible side of the panel.

The following solutions can be applied in these instances:

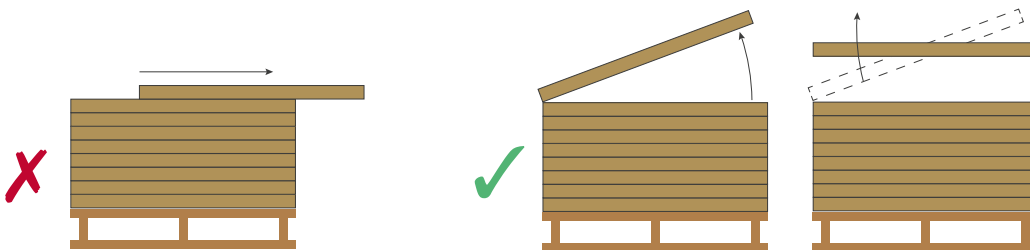
- Water in panels can be prevented with proper detailing, protecting and finishing in accordance with our guidelines
- After drying, lightly scour the panels with fine sandpaper (grit no.80)
- You can get rid of small patches of moisture evidence by applying a light coat of paint in the same RAL colour
- For serious damp spots, we advise you to apply an insulating layer (primer) and then paint over the wood wool panels.

HANDLING PANELS

Tilt the panels up to take them off the pallet in order to avoid damaging them.

Clean off any loose fibres and/or dust with a soft brush.

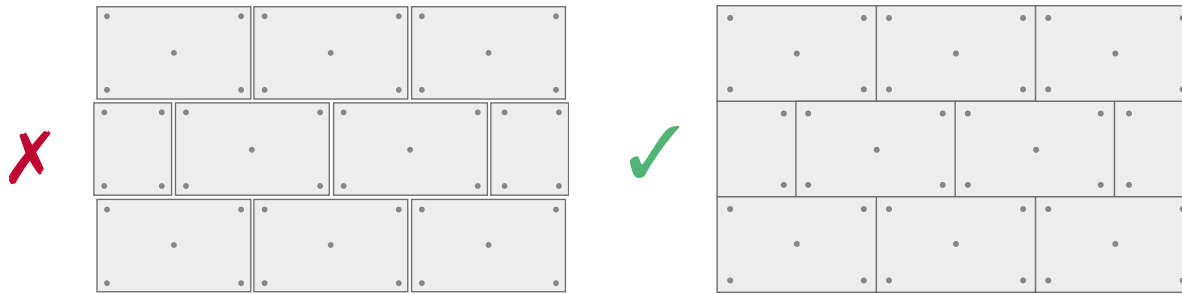
Always work with clean hands and tools.



Placement

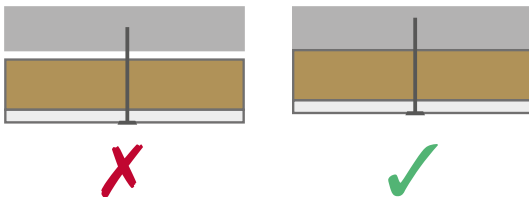
SLABS TO BE IN CONTACT WITH EACH OTHER

Heraklith® A2 Decorative Panel and Heraklith® Tektalan A2 SmartTec should be installed so they are tightly butted together at joints, staggered by a minimum of 150mm.



INTIMATE CONTACT WITH SUBSTRATE

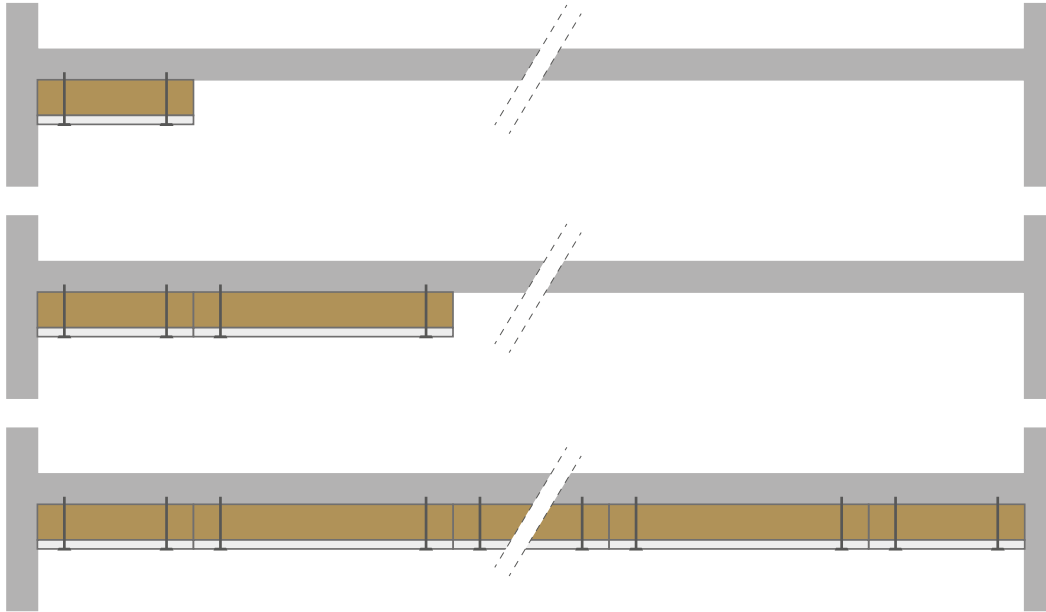
Heraklith® A2 Decorative Panel and Heraklith® Tektalan A2 SmartTec should be in intimate contact with the building substrate. The nature of the insulation material on Heraklith® Tektalan A2 SmartTec lends itself to accommodate any irregularities in the surface of the substrate.



Installation sequence

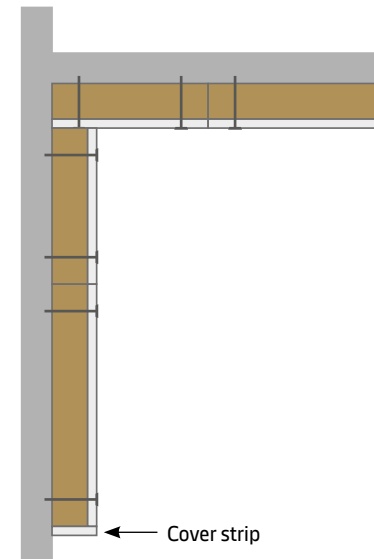
CONCRETE PROCESS

Installation of both Heraklith® A2 Decorative Panel and Heraklith® Tektalan A2 SmartTec can be done by starting in one corner and working across the soffit to finish in the adjacent corner. A singular row of slabs should be installed first to create a straight line from which to butt up against.



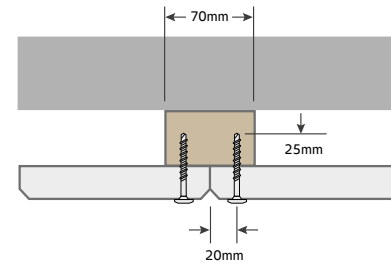
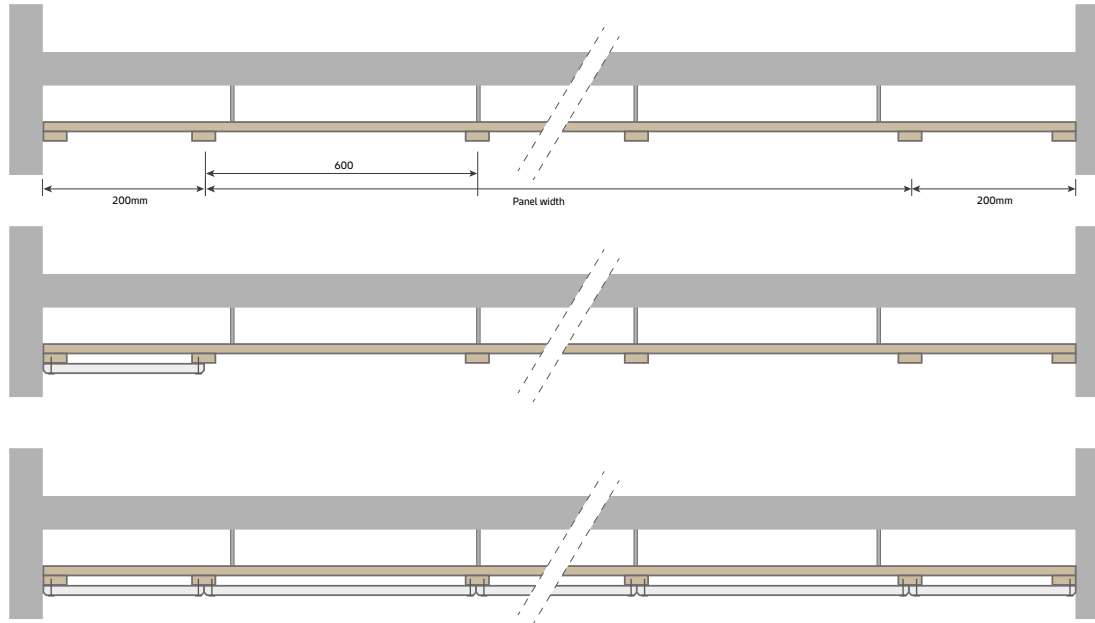
COVER STRIP

Cover strips for Heraklith® Tektalan A2 SmartTec should be installed using a suitable high tack or silicate based adhesive and are used to finish areas where mineral wool insulation is left visible.



WOODEN LATTICEWORK PROCESS

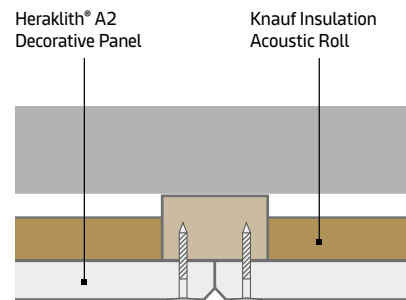
Installation of Heraklith® A2 Decorative Panel onto wooden latticework is done by starting in one corner and working across the soffit to finish in the adjacent corner. A singular row of slabs should be installed first to create a straight line from which to butt up against.



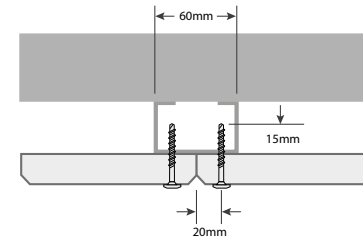
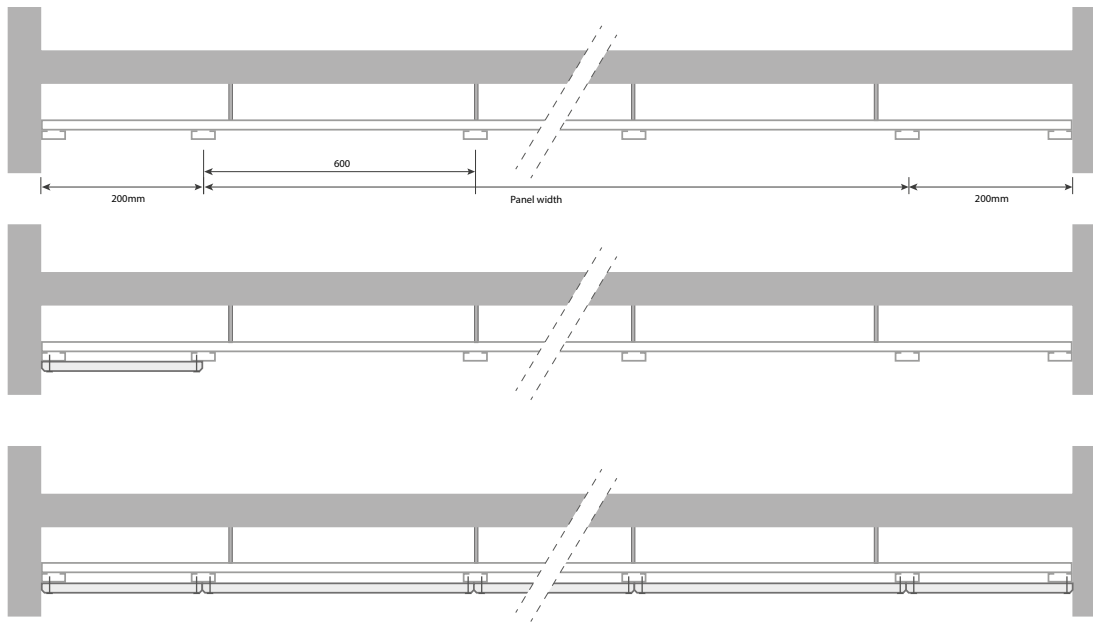
OPTIMAL ACOUSTICS

For optimal acoustic performance, Knauf Insulation Acoustic Roll can be laid on top of Heraklith® A2 Decorative Panel.

For further information, please contact our Technical Services Team.



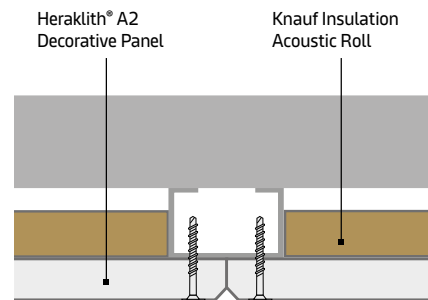
METAL CD PROCESS



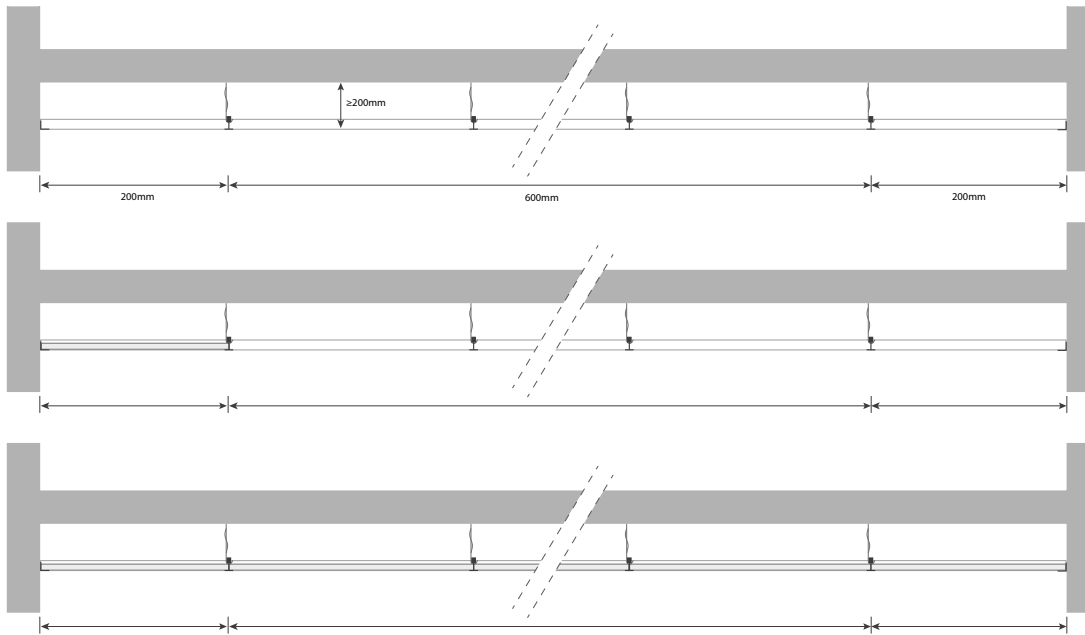
OPTIMAL ACOUSTICS

For optimal acoustic performance, Knauf Insulation Acoustic Roll can be laid on top of Heraklith® A2 Decorative Panels.

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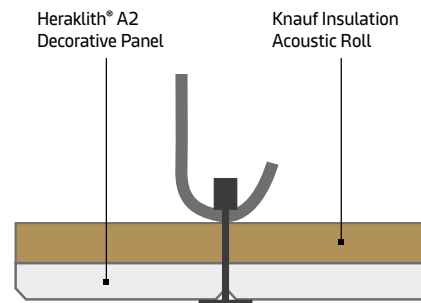
GRID CEILING SYSTEM PROCESS



OPTIMAL ACOUSTICS

For optimal acoustic performance, Knauf Insulation Acoustic Roll can be laid on top of Heraklith® A2 Decorative Panels.

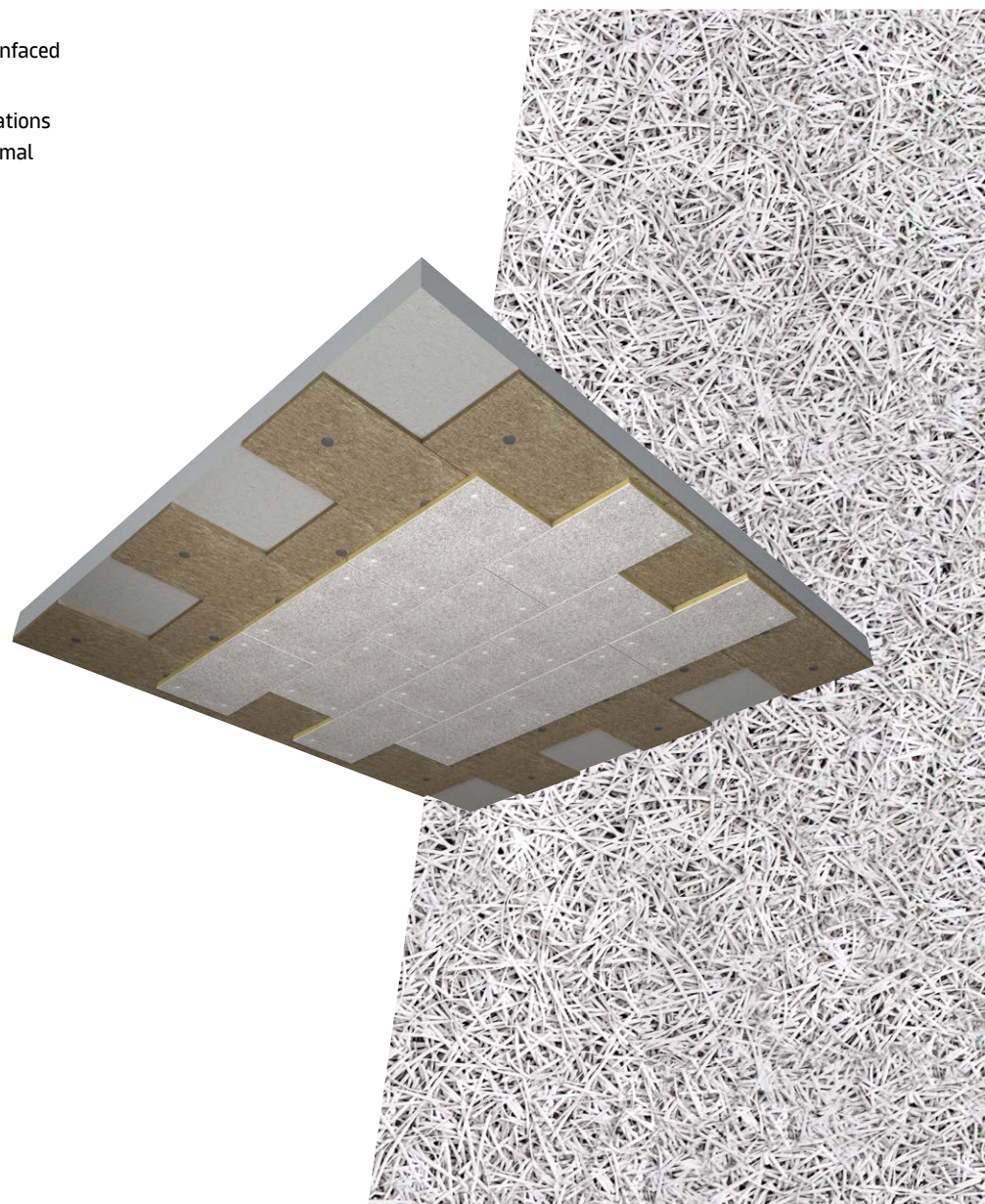
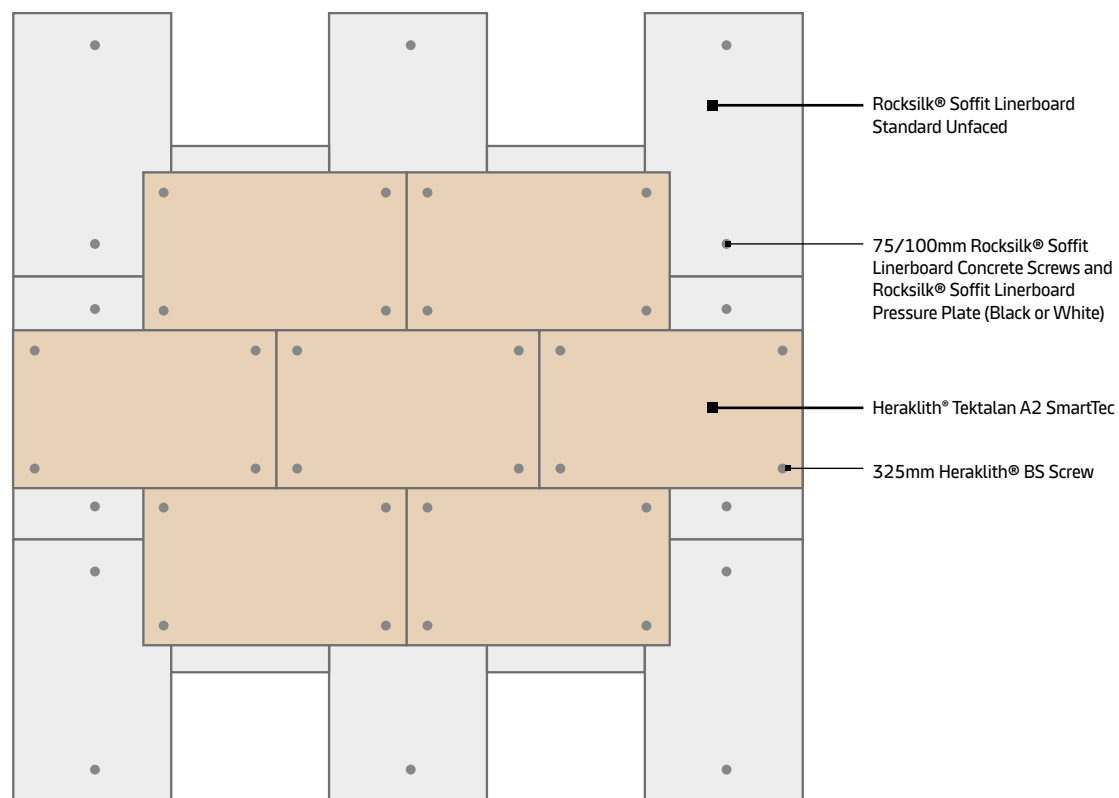
For further information, please contact our Technical Support Team.



DUAL LAYERING WITH ROCKSILK® SOFFIT LINERBOARD

Heraklith® Tektalan A2 SmartTec can be installed in conjunction with 50 or 75mm Rocksilk® Soffit Linerboard Standard Unfaced to increase the total thickness of insulation installed, and to reduce the U-value of the finished ceiling.

Rocksilk® Soffit Linerboard Standard Unfaced and Heraklith® Tektalan A2 SmartTec should be installed in opposite orientations such that there are no coincidental joints, reducing the chances of gaps between the slabs which negatively affect the thermal performance



Thickness of Rocksilk® Soffit Linerboard Standard Unfaced	Length of Rocksilk® Soffit Linerboard Concrete Screw	Length of Heraklith® BS Screw	Thickness of Heraklith® Tektalan A2 SmartTec
50mm	75mm	325mm	Up to 250mm
75mm	100mm	325mm	Up to 225mm

CUTTING SLABS

Slabs can be cut with either a fine-tooth handsaw, a table saw, handsaw or circular saw. Ensure appropriate safety precautions are taken when using power tools.

Table Saw

- Saw panels with the visible side up
- Recommended sawblade: Carbide (Widia) blade

Handsaw

- Saw panels with the visible side up
- The sawblade tooth must be suitable for wood

Circular saw

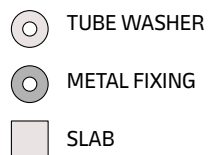
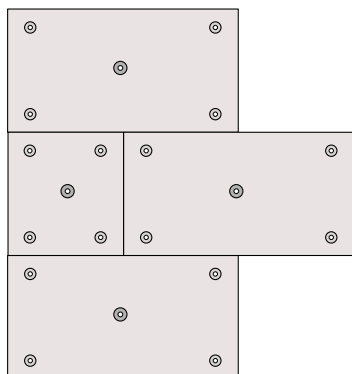
- Always use a guide rail
- Depending on the rotation of blade, saw the panels with the visible side up

AREAS THAT CANNOT ACCEPT A FULL SLAB SHOULD BE FILLED WITH A SLAB SECTION

Areas of insulation that do not require a full slab can be filled using a slab section where the section is cut slightly oversize to give a tight fit and fixed at 600mm intervals in the centre of the section.

✓ Slab cut and snug fit

✗ Loose fit for cut slab section



LENGTHS

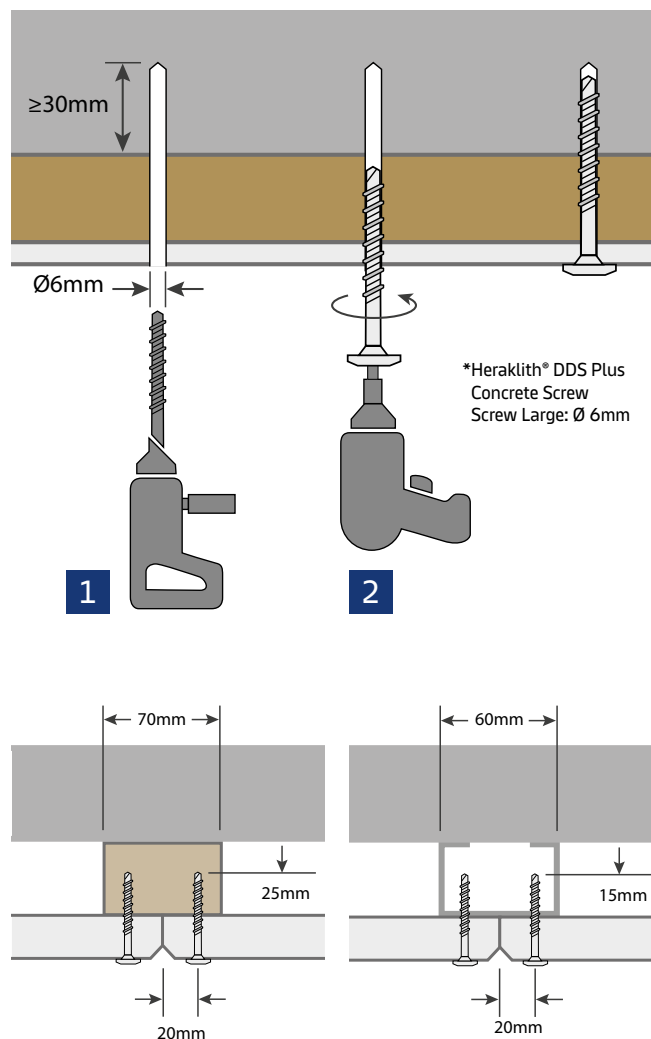
Heraklith® DDS Plus Concrete Screw /

The Heraklith® DDS Plus Concrete Screw is suitable for standard concrete with a density of 2000–2600 kg/m³. We recommend you use a standard drill bit with a diameter of 6mm. Softer and/or older concrete types may require a smaller drilling diameter. That is why you should always test whether the screw will actually stay there when you use the indicated drill diameter.

- 1 Drill through the pre-drilled panel into the concrete using a hammer drill in accordance with the corresponding mounting pattern.
- 2 Push the screw into the drilled hole through the panel and screw it in using a cordless drill.

Heraklith® BS Screw

When dual layering Heraklith® Tektalan A2 SmartTec with Rocksilk® Soffit Linerboard Standard Unfaced, a Heraklith® BS Screw should be used. It is available in 325mm length and is suitable for total insulation thicknesses up to 300mm.



REPAIRS

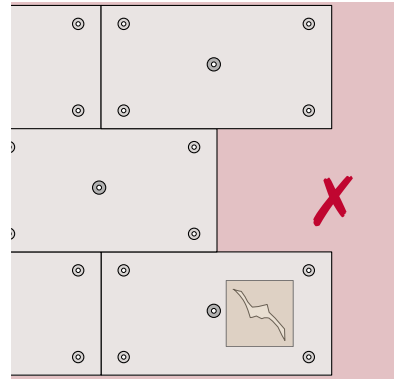
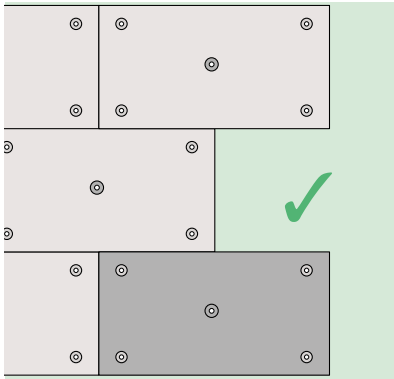
In the event of small repairs being needed on site, we recommend the replacement of full slabs wherever possible.



Full slab replacement after damage



Small patched repair



CLEANING

Wood wool panels are easy to clean using a soft brush or compressed air. Do not use water to clean the panels.





Technical Services Team

01744 766 666

technical.uk@knaufinsulation.com

For more information please visit

knauf.com

Knauf Insulation Ltd

Stafford Road, St.Helens, Merseyside, WA10 3LZ Customer Service: 01744 766 766

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