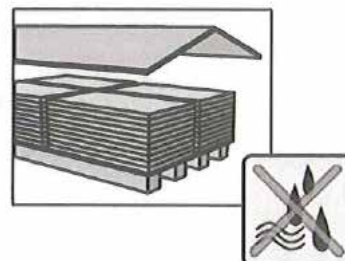


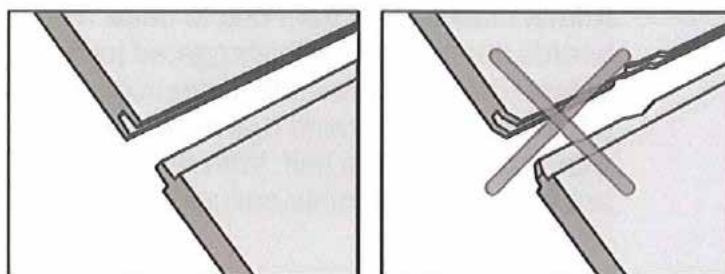
Laying and handling instructions

General

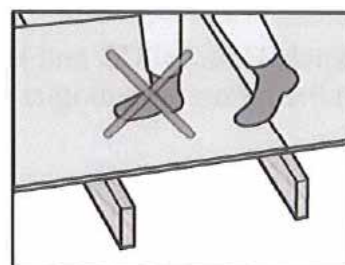
Insulation panels must be stored on flat places and protected from weather exposures especially from rain and permanent moisture. Panels must be dry also during application.



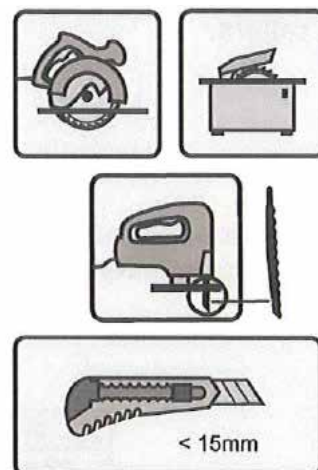
Protect edges during handling from damage.



Avoid walking on the panels between the rafters. Minimum thickness for FiberTech Top underroof is 22mm.



The boards FiberTech Top can be cut with conventional electric tools usable for cutting or sawing of wood or wood based materials. Also an electric jigsaw with special blades for cutting of soft insulation materials can be used..



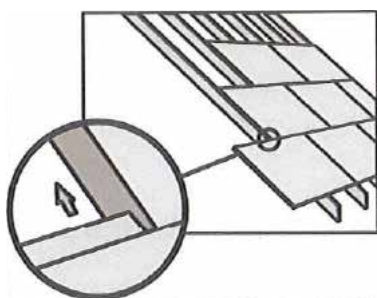
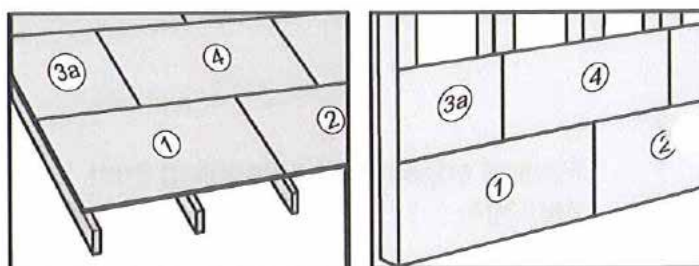
Laying and handling instructions

FiberTech Top

Insulation board FiberTech Top can be exposed to weather conditions up to 4 weeks without snow loading.

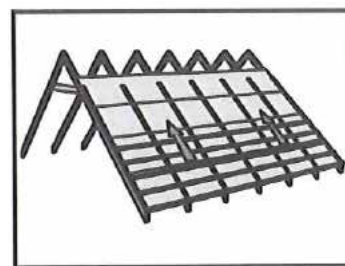


Insulation boards FiberTech Top must be laid from drip to ridge. The boards must be laid with staggered joints. In first row boards are laid in direction from left to right. The second row must start with board cutted to half. With this method are the staggered joints ensured.



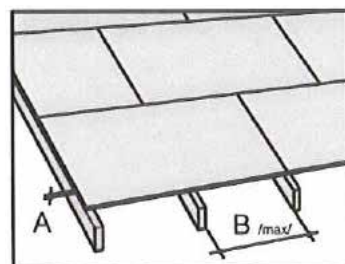
The FiberTech Top panels must be laid on the rafters with tongue upwards.

Counter lathing and lathing must be fastened immediately after the panels are laid down on the rafters.



Keep following maximal distances between the rafters according to different thicknesses of FiberTech Top.

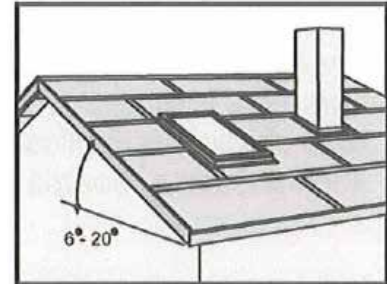
Thickness of the panel in mm (A)	Max distance between rafters in mm (B)
22	850
35	950
52	1000
60	1050
80	1100
100	1150



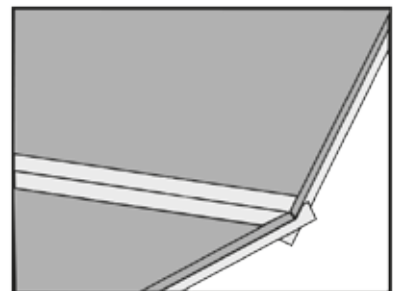
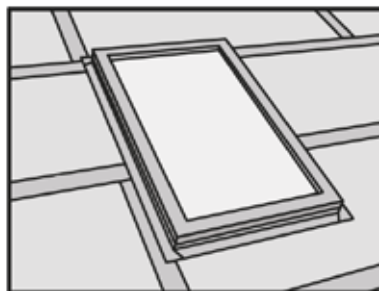
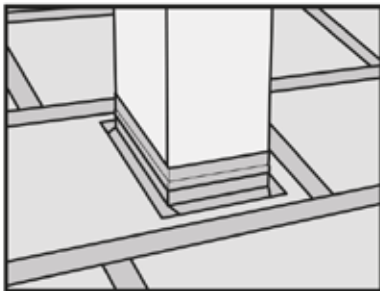
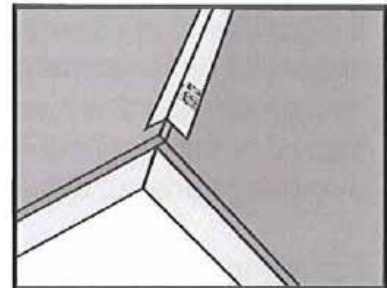
Laying and handling instructions

FiberTech Top

When the angle of the roof is less than 20°, the board joints must be overlapped with special butyl- caoutchouc or polyethylene tape. Area of the joints should be carefully cleaned up and coated with primer to improve adhesivity of tape.



With tape it is necessary to overlape all joints in places of ridge, valley and roof angle changes. All connections of the panels with all roof openings (e.g. skylights, chimneys...) must be overlaped.



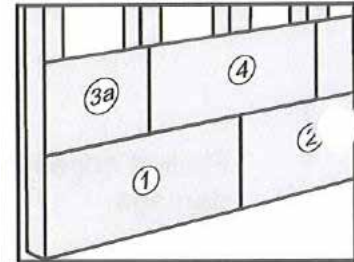
Laying and handling instructions

FiberTech Top

Screws, staples or nails can be used to secure FiberTech Top to partitions.

Maximum distances:

- screws : 250mm
- staples : 125mm
- nails : 100mm



Staples:

Material: galvanized or stainless steel
 Length: min. 75mm (dep. on panel thickness)
 Crown width: min. 27.5mm
 Thickness: min. 1,8 mm
 Fastening depth: min. 30 mm

Fastenings depths:

These have been specified in the "Allgemeine bauaufsichtliche Zulassung" [General Building Approval] issued by the German DIBT and are set to the following values:

- screws : min. 25 mm
- staples: min. 30mm

The above information applies when using traditional insulation materials.

Additional care is required when incorporating insulation through blowing for which it is necessary to find out in advance the suitable FiberTech Top thickness.

Laying and handling instructions

FiberTech Flex

For application between rafters or studs in wood frame the insulation boards FiberTech Flex will be used.

Before laying of boards it is necessary to measure the distances between rafters or studs. In cutting process the boards are laid down on flat base. The boards are moved along diagonal to the needed dimension and the overhangs are cut down.

For a thighter join by the rafters or studs it is necessary to extend the width of boards by aproximmately 2 mm.

A special knife for cutting of soft insulation materials is usable.

Exactly cutted FiberTech Flex boards are thightly fitted between rafters or studs.

