



OPERATOR MANUAL
SCREWS FOR FIXING FIBER-CEMENT BOARDS TO WOOD
MFC0-SP TYPE
No. OM_MFC0-SP_E25

Installation carried out in an appropriate way, using professional tools is extremely important for proper and safe use of building fasteners. Always follow all instructions listed in this operator manual.

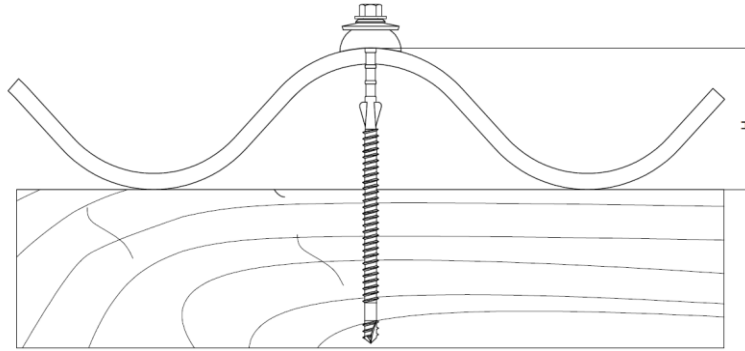
General rules:

- The operator manual, apply only to original products of Baltic Fasteners Sp. z o.o. bearing the Manufacturer's logo, which allows for their identification;
- The use of screws shall be confirmed by a fixing plan made on the basis of complete building roof data;
- When carrying out the fixing plan, observe the mounting parameters and take into account the loads of the connections given in valid approval or technical evaluation issued for the product;
- When carrying out the fixing plan, comply with applicable laws and standards;
- The fiber-cement boards Manufacturer's recommendations must be taken into account;
- The number and type of screws must be in line with the information given in the fixing plan;
- Only tools that are equipped with clutch adjustment should be use;
- Modification of **MFC0-SP** screws is not permitted;
- Products may only be used for their intended purpose.

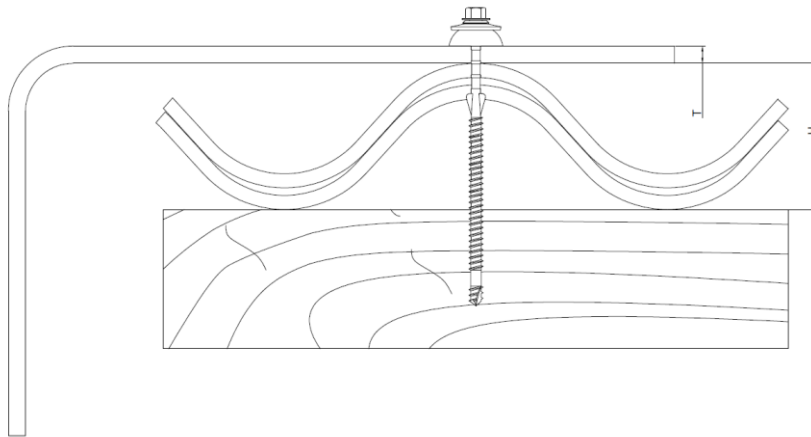
Product selection rules:

- **MFC0-SP** with washer **E25** are designed for fixing fiber-cement boards to wooden substrates;
- The corrosion protection of the screws should be suitably selected for the corrosive environment in which they will be used. **MFC0-SP** screws are protected against corrosion by coating **SUPER PREMIUM** with **1000h** resistance in a salt spray test, which allows them to be used in corrosive environments **C4**. Washers **E25** delivered with screws are made of stainless steel, which allows them to be used in corrosive environments **C4**;
- The length of the screws should be appropriately selected depending on the number of fiber-cement boards installed and the accessories used (eg windscreens). Please consider:
 - board/boards height **H** at the fixing point;
 - thickness **T** of the attached accessories.

Board/boards height **H** at the fixing point and thickness **T** of the attached accessories are shown on diagrams below.



Height of single board **H** at the fixing point.



The height of two boards **H** at the fixing point and the thickness **T** of the accessory (windscreen).

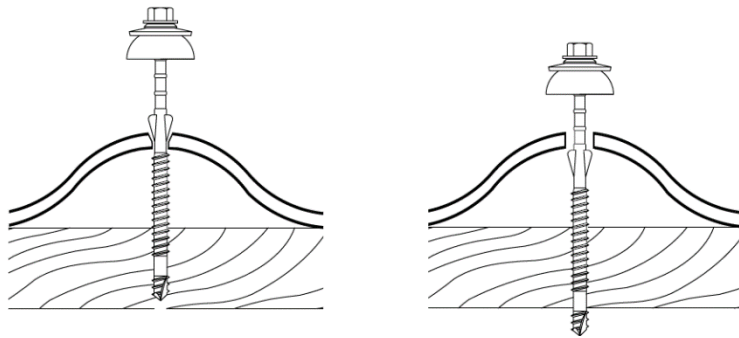
In addition, the length of the screws should be appropriately selected to embedment depth in the substrate. In wooden substrate the following embedment depths are allowed **$h_{ef} = 30$ or 40mm** .

- Screws can be used in wooden structures of minimum class **C24**;
- Maximum tool speed **2200rpm**;
- In order to select the appropriate length of the screws, the height of the board/boards **H** at the fixing point and the thickness **T** of the attached accessories must be summed. Then check in the table below, the length of **MFCO-SP** screws that is suitable for fixing these components. **h_{min}** is the minimum value of the sum of **H** and **T** for a given screw length. **h_{max}** is the maximum value of the sum of **H** and **T** for a given screw length.

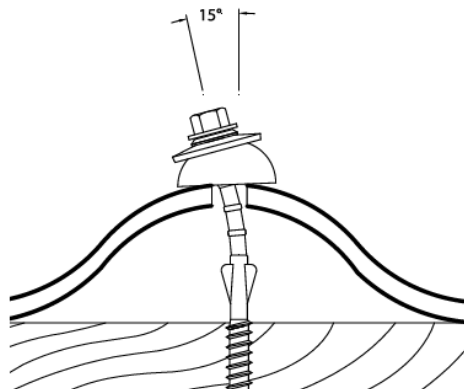
Article number	DxL	Embedment depth	h_{min}	h_{max}
	mm			
BFSPFC06511225	6,5x112	30	36	60
		40	36	50
BFSPFC06513225	6,5x132	30	36	80
		40	36	70

Installation process:

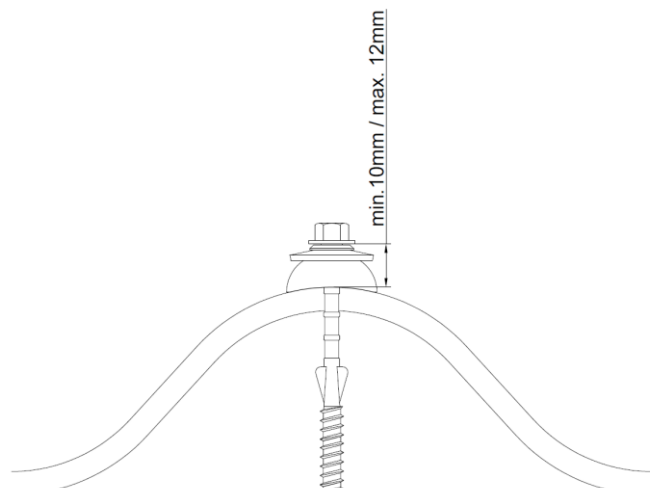
- Place the fiber-cement board, following instruction provided by the board Manufacturer.
- When using **MFC0-SP** screws to fix fiber-cement boards, pre-drilling of the boards is not required. Special wings placed on the screw shank drill **9mm** dilatation hole in the board. That enables the roof to work properly;



- When using **MFC0-SP** screws to fix fiber-cement boards, equipped with a special absorber, the screws are additionally secured against cracking. Absorber allows the screw to be tilted from the axis by **15 degrees**;

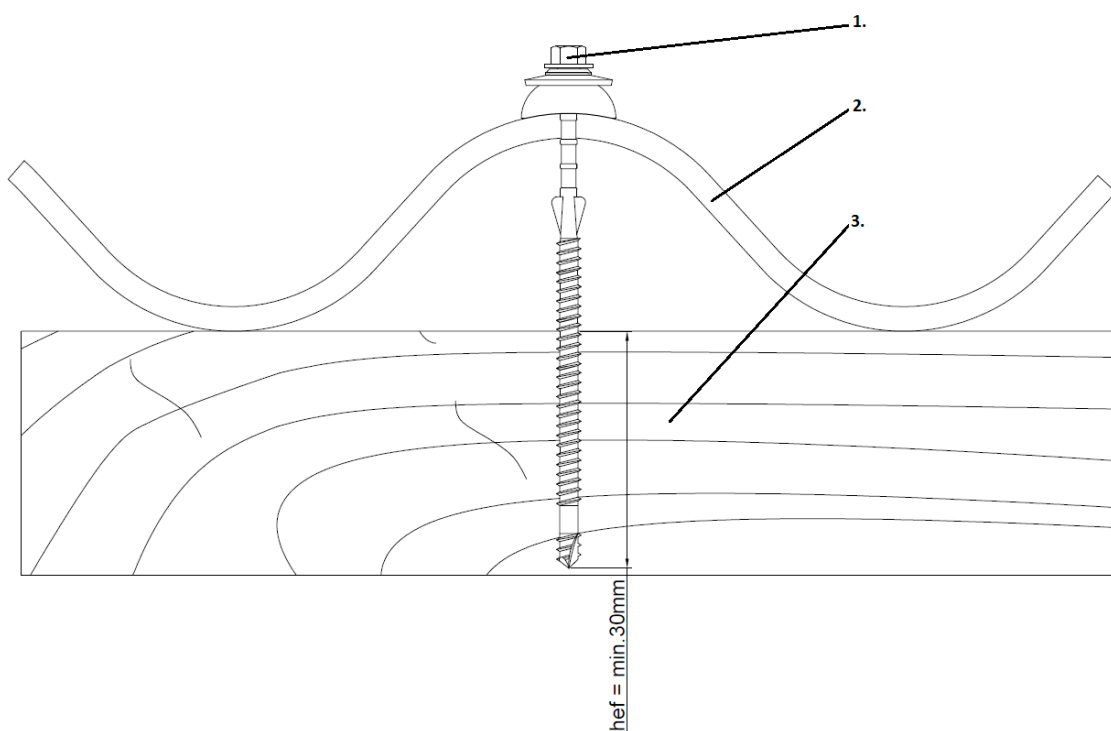


- Fiber-cement board/boards should be screwed to the substrate with the selected screws in accordance with the fixing plan.
 - a) Screws must always be mounted perpendicular to the substrate.
 - b) The EPDM washer should be properly tightened as shown on the picture below.



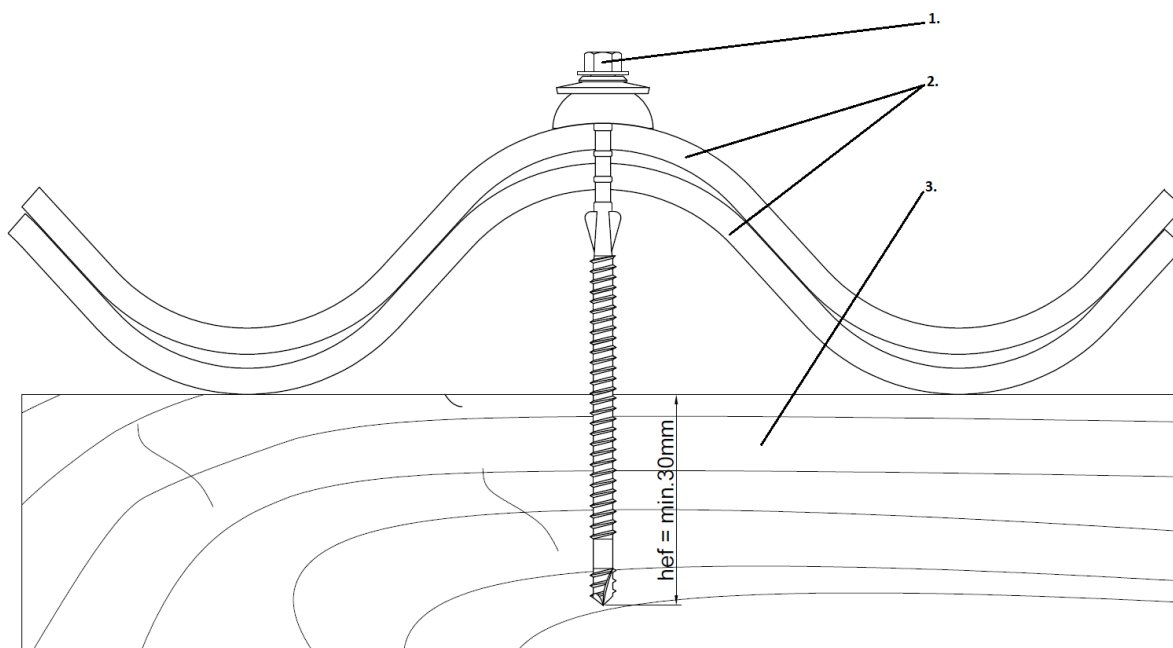
- c) Fixing parameters specified for the screw **MFC0-SP** need to be retained.
- d) Use dedicated nut-setters **MNS-S8** for a given screw line.
- e) The fiber-cement board should be fixed to each support at least with **2** screws to balance the system;
- In case of damage to the corrosion or paint coating on the screws, the defects must be further secured;
- Once you have fixed the board, proceed to assemble the next one by following the procedure given above.

Pictures 1-3 illustrates the fixing of **MFC0-SP** screws to wooden substrate in various combinations with fiber-cement boards.



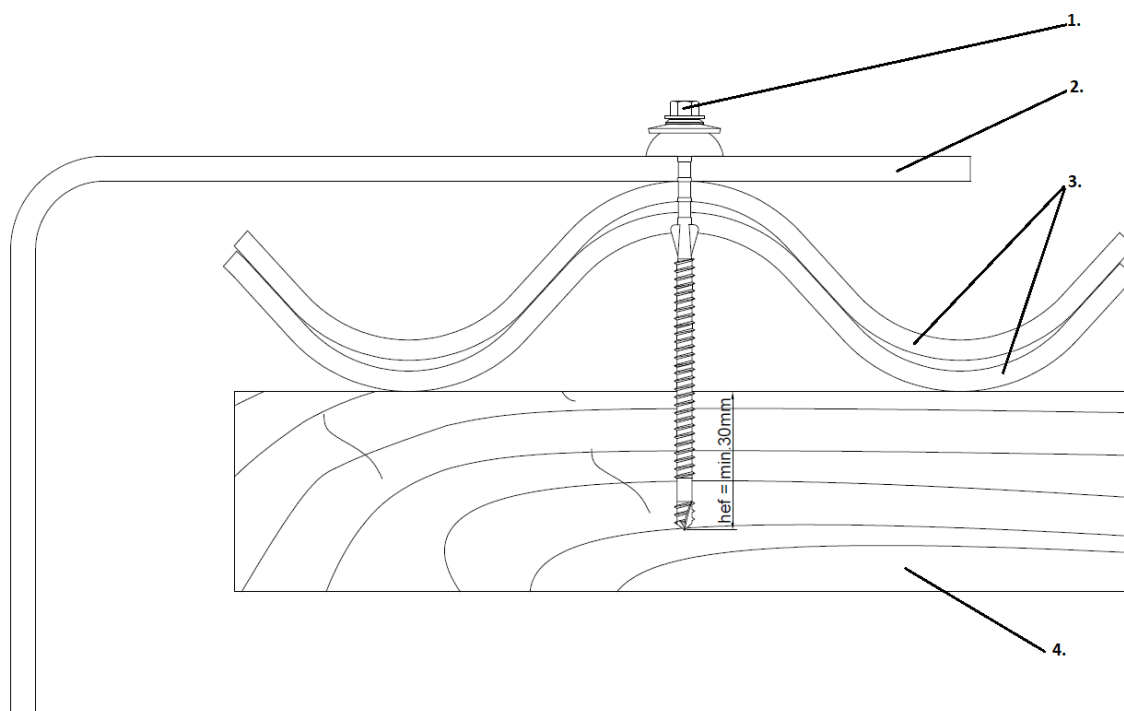
1. Screw for fiber-cement boards
2. Fiber-cement board
3. Wood

Picture 1. Assembling of the MFC0-SP screws with a single fiber-cement board to a wooden substrate.



- 1. Screw for fiber-cement boards
- 2. Fiber-cement boards
- 3. Wood

Picture 2. Assembling of the MFC0-SP screws with two fiber-cement board to a wooden substrate.



- 1. Screw for fiber-cement boards
- 2. Windscreen
- 3. Fiber-cement boards
- 4. Wood

Picture 3. Assembling of the MFC0-SP screws with two fiber-cement board and windscreen to a wooden substrate.

Basic dimensions of screws MFC0-SP type:

