



OPERATOR MANUAL
SCREWS FOR FIXING FIBER-CEMENT BOARDS TO WOOD
MFC8-SP TYPE
No. OM_MFC8-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.

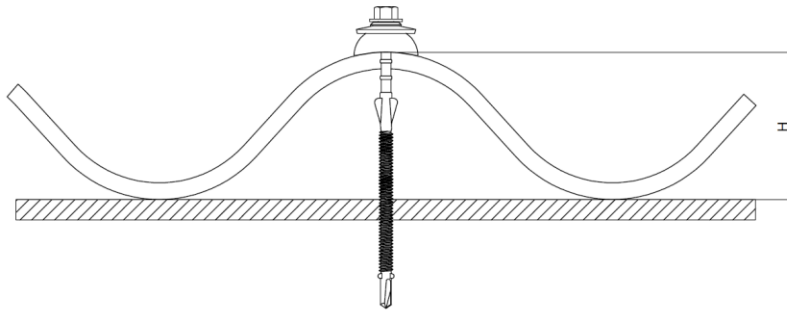
General rules:

- 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 **MFC8-SP** screws is not permitted. Cutting of screws that extend beyond the structure is forbidden due to the risk of losing their load capacity;
- Products may only be used for their intended purpose.

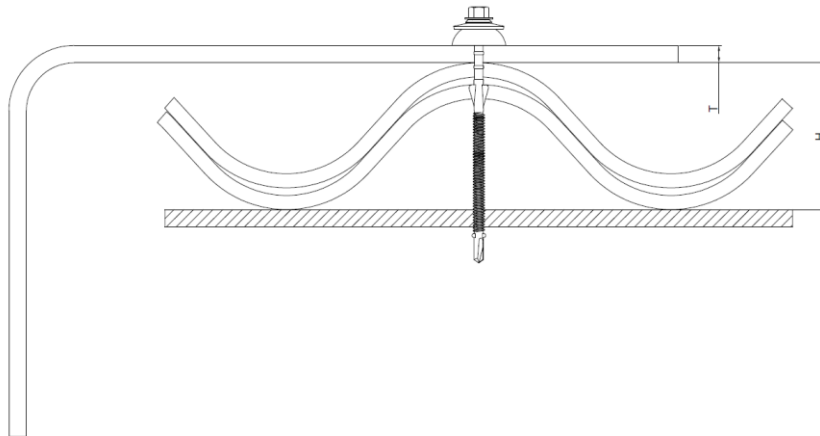
Product selection rules:

- **MFC8-SP** with washer **E25** are designed for fixing fiber-cement boards to steel substrates;
- The corrosion protection of the screws should be suitably selected for the corrosive environment in which they will be used. **MFC8-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 thickness of the steel substrate should be taken into consideration when choosing the length of the screws;

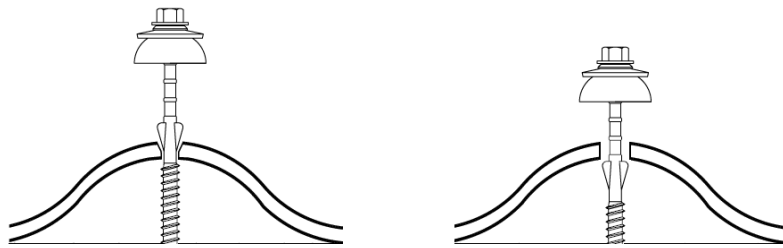
- Screws can be used on steel substrates of grade not worse than **S280GD**;
- Screws can be used for steel substrates with a minimum thickness of **2mm**;
- Maximum steel drilling capacity for screws **8mm**. Maximum tool speed **2200rpm**;
- In order to select the appropriate length of the screws, the height of the board/boards **H** at the fixing point and the thickness **T** of the attached accessories must be summed. Then thickness of the steel substrate must be added to that sum. Then check in the table below, the length of **MFC8-SP** screws that is suitable for fixing these components. **h_{min}** is the minimum value of the sum of **H**, **T** and substrate thickness, for a given screw length. **h_{max}** is the maximum value of the sum of **H**, **T** and substrate thickness, for a given screw length;

Article number	DxL	h_{min}	h_{max}
	mm	mm	mm
BFSPFC8639525	6.3x95	37	63
BFSPFC86311225	6.3x112	37	80

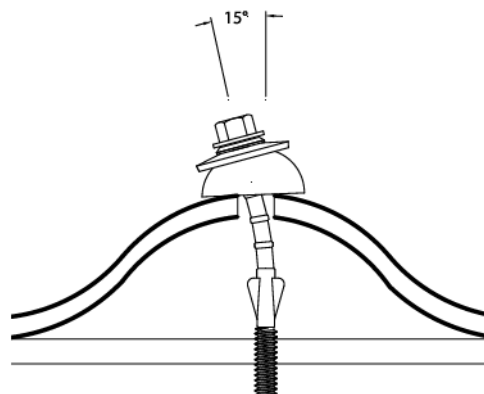
- When fixing fiber-cement boards to closed steel profiles (pipes), keep in mind that the length of the screws must be adjusted to the internal dimension of the profile so that chosen screw can be easily tightened. The distance between the end of the screw and the opposite side of the profile must be at least **5mm**.

Installation process:

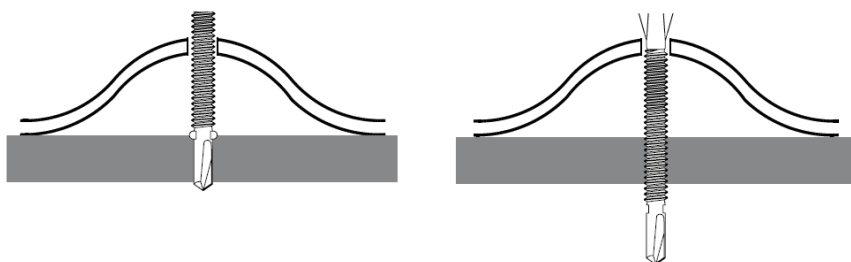
- Place the fiber-cement board, following instruction provided by the board Manufacturer;
- When using **MFC8-SP** screws to fix fiber-cement boards, pre-drilling of the boards is not required. Special wings placed on the screw shank drill **9mm** dilatation hole in the board. That enables the roof to work properly;



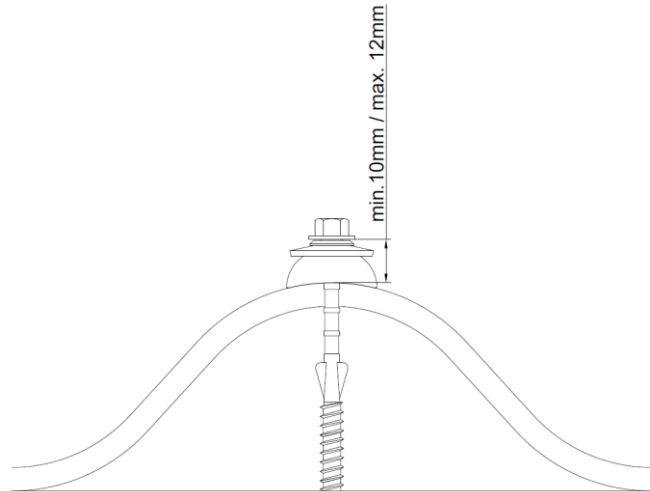
- When using **MFC8-SP** screws to fix fiber-cement boards, equipped with a special absorber, the screws are additionally secured against cracking. Absorber allows the screw to be tilted from the axis by **15 degrees**;



- **MFC8-SP** screws have a drilling point equipped with unique wings. The wings pre-drill the fiber-cement board so that the threaded part of the screw when screwed into the steel substrate does not lift up the fiber-cement board which prevents it from cracking. Wings fall off when in contact with steel substrate;

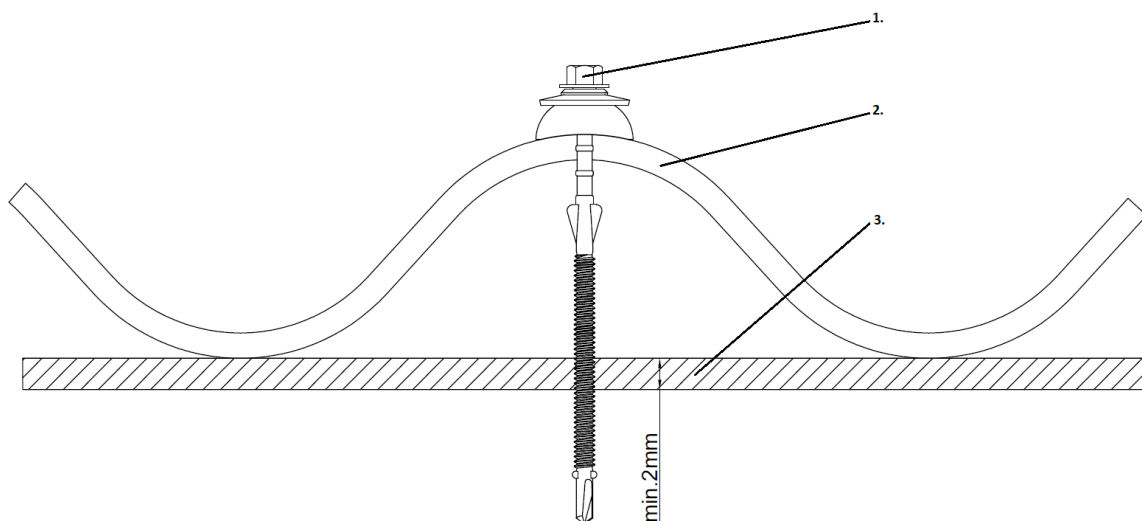


- Fiber-cement board/boards should be screwed to the substrate with the selected screws in accordance with the fixing plan.
 - a) Screws must always be mounted perpendicular to the substrate.
 - b) The EPDM washer should be properly tightened as shown on the picture below.



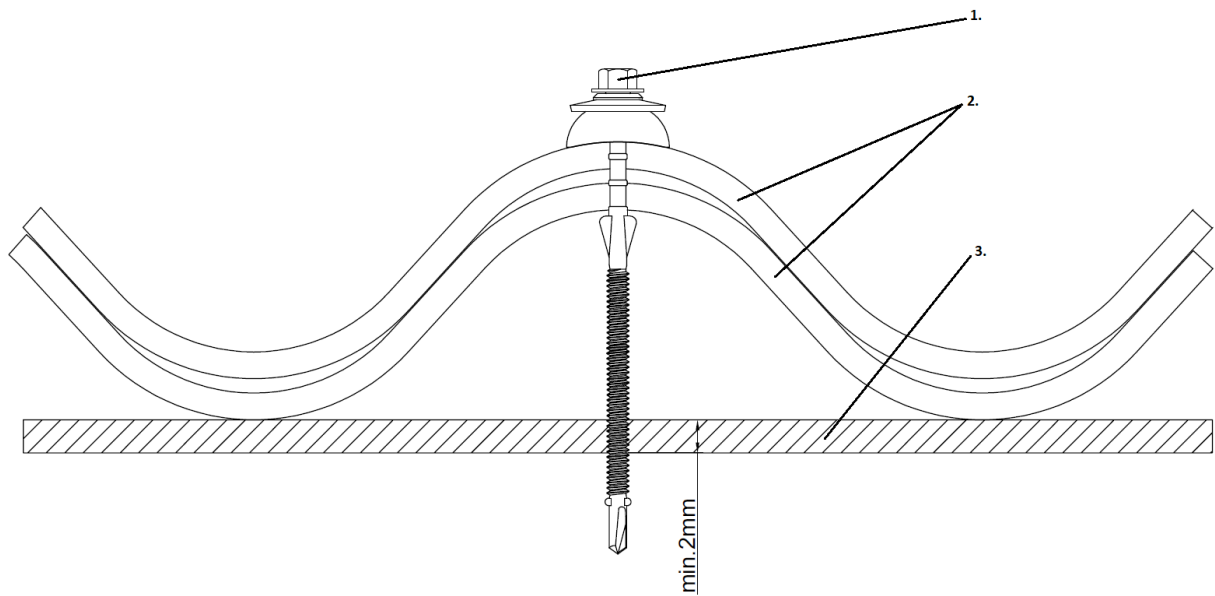
- c) Fixing parameters specified for the screw **MFC8-SP** need to be retained.
 - d) Use dedicated nut-setters **MNS-S8** for a given screw line.
 - e) The fiber-cement board should be fixed to each support at least with **2** screws to balance the system;
- In case of damage to the corrosion or paint 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 **MFC8-SP** screws to steel substrate in various combinations with fiber-cement boards.



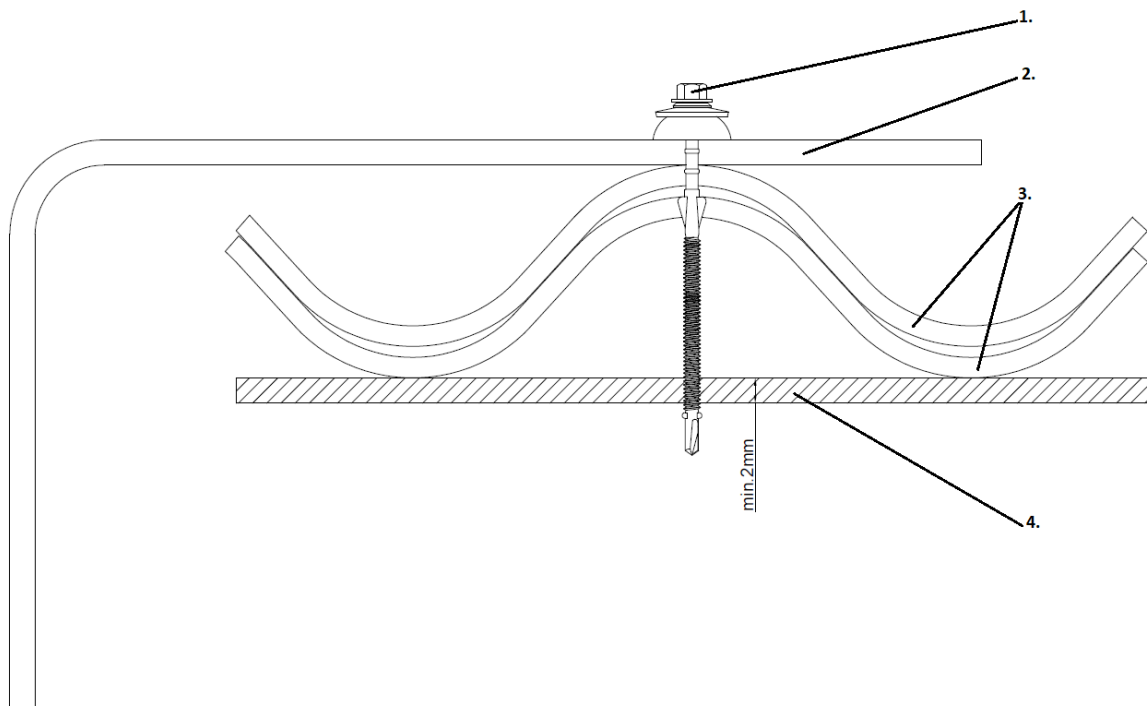
1. Screw for fiber-cement boards
2. Fiber-cement board
3. Steel substrate

Picture 1. Assembling of the MFC8-SP screws with a single fiber-cement board to a steel substrate.



- 1. Screw for fiber-cement boards
- 2. Fiber-cement boards
- 3. Steel substrate

Picture 2. Assembling of the MFC8-SP screws with two fiber-cement board to a steel substrate.



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

Picture 3. Assembling of the MFC8-SP screws with two fiber-cement board and windscreen to a steel substrate.

Basic dimensions of screws MFC8-SP type:

