

Assembly Instruction

COMPACTPITCH XM-B

Version : 3.0

Language : English

Important! Read carefully before installation!



Legal Notice

Subject to change due to technical modifications! These assembly instructions correspond to the technical status of the delivered product and not to the current development status at the manufacturer. If pages or parts of the assembly instructions are missing, please contact the manufacturer's address given below. The original language of these assembly instructions is German. Any assembly instructions in another language are a translation of the assembly instructions in German. Therefore, in case of doubt or contradiction, the authentic German version shall prevail. The installation instructions are protected by copyright. The installation instructions may not be copied, reproduced, microfilmed, translated or converted for storage and processing in computer systems, either in part or in full, without the written permission of AEROCOMPACT Europe GmbH

Copyright by AEROCOMPACT Europe GmbH

Manufacturer

AEROCOMPACT Europe GmbH
Gewerbestrasse 14
6822 Satteins, Austria

office@aerocompact.com
www.aerocompact.com

Creation date

10/2024

TOC

General	4
Applicable documents	4
Limitation of liability	4
Explanation of symbols	4
Safety	5
Appropriate use	5
Personnel requirements	6
Working safely	6
Breakthrough protection	7
Personal protective equipment (PPE)	7
System Overview	8
Basic components	8
Suitability Roof tile type	8
Assembly	9
Mounting metal replacement tiles - concrete tiles	9
Expose the roof battens	9
Attach foam wedge	10
Mount Roof hook	11
Complete roofing	11
Mounting metal replacement tiles - clay tiles	12
Additional fixing for clay tiles	12
Maintenance, disassembly and disposal	13
Maintenance	13
Disassembly	13
Disposal	13
Appendix	14
Declaration of performance	14

GENERAL

These assembly instructions describe the assembly procedure and must be strictly adhered to. Read these installation instructions carefully before starting installation. The basic prerequisite for safe working is compliance with all the safety and handling instructions in these installation instructions. In addition, the local accident prevention regulations and general safety regulations for the area of application of the product apply. Illustrations in these instructions are for basic understanding and may differ from the actual design.

APPLICABLE DOCUMENTS

In addition to this manual, you have received an AEROTOOL project report, planning documents and drawings. Always comply with the instructions and notes contained therein.

LIMITATION OF LIABILITY

All information and instructions in these assembly instructions have been compiled taking into account the applicable standards and regulations, the state of the art and our many years of knowledge and experience. Liability provisions are stated in our **terms** and can be accessed at www.aerocompact.com/downloads.

EXPLANATION OF SYMBOLS

SYMBOLS FOR INSTRUCTIONS



Prerequisites for action instruction



Results of action steps



Step by step action instruction



This note provides useful information for smooth installation

SYMBOLS IN ILLUSTRATIONS - ACTIVITIES



Optional component, optional mounting variation



Activity by hand



Check AEROTOOL project report or planning documents



Visual inspection



Observe right angle

SYMBOLS IN ILLUSTRATIONS - TOOLS



Measuring tape, measure



Pencil, mark



Chalk line



Scissors, tin snips, cut to size



Cordless screwdriver, screwdriver



Use a torque wrench, Observe torque



Use Allen key

SAFETY

The following list serves as an indication of the most common safety risks that can occur when installing these products. There is no liability for the completeness of the risks presented. A specific check of the necessary safety measures must be carried out by an authorized specialist company before installation.

APPROPRIATE USE

The CompactPITCH pitched roof system is intended exclusively for the installation of PV modules on tiled roofs or similar roof coverings. Proper use also includes correct installation in accordance with these installation instructions. Approval from the module manufacturer is required for the use of PV modules with the CompactPITCH system. AEROCOMPACT accepts no liability for loss of performance or damage of any kind to the PV modules. Any other use of the CompactPITCH system is considered improper use. Do not enter the mounting rails during installation. It is strictly forbidden to place any objects, such as pallets, on the mounting rails.

IMPORTANT NOTES ON TIGHTNESS DURING INSTALLATION:

Care must be taken during the installation of the roof hooks to ensure that the tightness of the roof is not compromised. The following points should be noted:

Correct positioning: Ensure that the roof hooks are positioned precisely in accordance with the planning documents and local building regulations. If the roof hooks are positioned incorrectly, they can affect the roof waterproofing and ultimately lead to leaks. Also note that in some cases it may be necessary to remove the protruding noses of sharp-edged roof tiles, especially if roof replacement tiles are used.

Correct choice of torques: Extreme caution is required when tightening the roof hook fastening screws. Excessive tightening can damage the roof seal. Ensure that you adhere exactly to the torques recommended in these installation instructions. This protects the integrity of your roof waterproofing.

Inspection after installation: After the roof hooks have been installed, a thorough inspection of the installed components must be carried out. Check for signs of damaged sealing materials or other potential leaks. Improper installation practices can lead to leaks in the roof, which in turn can cause serious damage to the building fabric and interior fittings.

By observing and complying with these instructions, you agree to take responsibility for proper installation and to minimize possible risks with regard to the tightness of the roof. Your careful implementation of these recommendations is crucial to ensure the longevity and reliability of your roof.

NOTE ON THE PROCESSING OF THIN SHEET METAL SCREWS

i The attachment of thin sheet metal screws with impulse or impact screwdrivers is not permitted. The high speeds can cause damage to the screw bodies, the flashing and the sealing. Thin sheet metal screws may **only** be used **once**, as their performance is not guaranteed if they are reused.

➤ Apply pressure to the thin sheet metal screw and screw in at low speed (< 500 rpm).

➤ Then reduce the pressure and screw in the thin sheet screw at a higher speed.

PERSONNEL REQUIREMENTS

Installation may only be carried out by a specialist company and must be carried out strictly in accordance with the installation instructions, the project report and the planning documents. A specialist company is a company that is familiar with the installation and maintenance of photovoltaic systems as part of its normal business operations. National and local building regulations, standards and environmental protection must be complied with. Under no circumstances may the assembly personnel be under the influence of medication, alcohol, drugs or in any other condition that impairs consciousness (e.g. overtiredness). Trainee personnel may only carry out work under the instruction and supervision of specialist personnel who are authorized to train personnel.

WORKING SAFELY

The contractual partner must ensure that the necessary safety measures and the relevant labor law and occupational safety regulations are observed when installing products from AEROCOMPACT Europe GmbH. Information from AEROCOMPACT Europe GmbH on the need to comply with security measures is provided without guarantee and without any claim to completeness and serves only to support the contractual partner. The contractual partner is obliged to inform himself about all relevant regulations concerning working safety and to comply with them. AEROCOMPACT Europe GmbH expressly assumes no responsibility and consequently no liability. Areas below the roof on which work is being carried out must be protected from falling objects. Where this is not possible, the affected areas must be closed to the public and unauthorized personnel. If the weather is unsuitable, work on the roof must not be continued for longer than necessary or must not be started at all. Never carry out installation work in strong winds. Strong winds exert particular enormous forces on the large-area PV modules. There is a risk of a module being torn off the roof and people being injured. Never work in wet conditions or at temperatures below freezing. Depending on the roof pitch, there is a risk of slipping. Only use suitable, intact and tested ladders. Set up and secure ladders according to specifications. Separate rules apply to mechanical climbing aids (elevators, cherry pickers, etc.). Never use the PV mounting system as a climbing support. Keep sufficient distance from overhead power lines. Equipotential bonding between the individual system components must be carried out in accordance with the respective country-specific regulations. When cutting materials to size, make sure there are no burrs, especially on edges and corners where there is a risk of injury.

BREAKTHROUGH PROTECTION

Roof windows, skylights, large ventilation flaps, etc. generally cannot withstand the weight or impact of a person. Such objects must be secured in a similar way to the roof edge. Corrugated fiber-cement roofs can be at risk of breakthrough over the entire surface. Define routes and secure them with load distribution measures. Always use load distribution aids on roof coverings or roof structures (e.g. thin sheet metal, corrugated fiber cement) with insufficient load-bearing capacity.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Personal protective equipment is used to protect people from health and safety hazards at work. Personnel must wear personal protective equipment during installation. Personal protective equipment is explained below:



Wear safety goggles when drilling and sawing



Wear cut-resistant work gloves during assembly



Wear safety shoes



Use fall protection



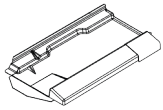
Helmets must be worn by all persons working on the construction site



Wear hearing protection

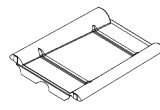
SYSTEM OVERVIEW

BASIC COMPONENTS



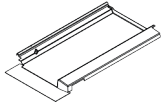
XM-B26

Metal replacement tile for clay tile with foam wedge



XM-BC

Metal replacement tile for concrete tile with foam wedge



XM-B25.1

Metal replacement tile for clay tile with foam wedge

SUITABILITY ROOF TILE TYPE

XM-B26

Cosmo 12 - Wienerberger
E58 - Erlus
E58 S - Erlus
F 13 Classic - Nelskamp
Flandern - Röben
P 72 - Rapperswil
Pada - ZZ Wancor
Reformpfanne SL - Erlus
Rubin 13 - Braas
Universo 14 - Wienerberger
Viva NEU - Creaton
Z 17 - Mühlacker
Z 18 - Mühlacker
F 14 - Nelskamp
F 15 - Nelskamp

XM-BC

Altdeutsche Pfanne - Braas
Bramac Classic - Bramac
Bramac Dolomit - Bramac
Bramac Donau - Bramac
Bramac Montero - Bramac
Doppel-S - Braas
Europa - Eternit
Finkenberger Pfanne - Nelskamp
Frankfurter Pfanne - Braas
Göteborg - Creaton-Eternit
Harzer Pfanne - Braas
Heidelberg - Creaton Eternit
Heidelberger - Eternit
Kronen-Pfanne - Nelskamp
Maxima - Creaton
Römer Pfanne - Braas
S-Pfanne - Nelskamp
Sigma Pfanne - Nelskamp
Taunus Pfanne - Braas

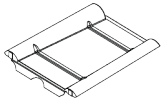
XM-B25.1

R13 S - Nelskamp
Z 2 - Jacobi Walther
Domino - Creaton
Fama - ZZ Wancor
FS 03 - Rapperswil
J72 Jura - Rapperswil
Jura - ZZ Wancor
Neva Nova Herzz.13 - ZZ Wancor
Granat 13 /13V - Braas
Großfalzziegel - Erlus
Z 2000
Campa - ZZ Wancor
D13 / D13 Ü - Nelskamp

ASSEMBLY

MOUNTING METAL REPLACEMENT TILES - CONCRETE TILES

SUITABLE METAL REPLACEMENT TILES:



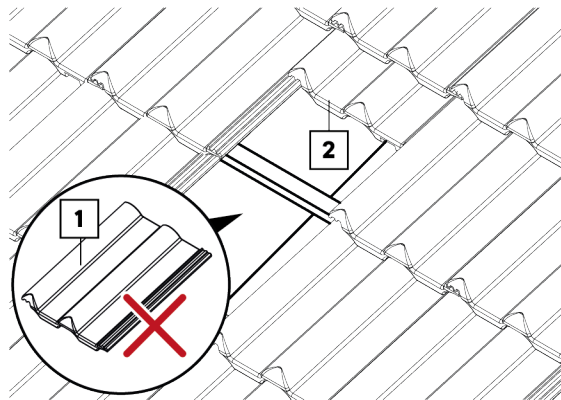
XM-BC

Metal replacement tile for concrete tile
with foam wedge

Expose the roof battens

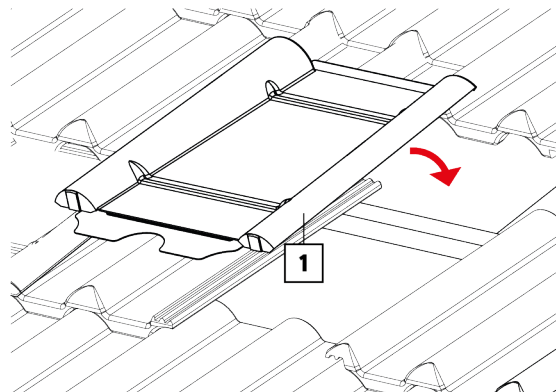


- Remove the on-site roof tile (1), which will be replaced by the metal replacement tile.
- Slide the roof tile (2) above upwards.



- Place the metal replacement tile (1) on top.

i When positioning the metal replacement tile, ensure that **everything** is covered when completing the roof covering.

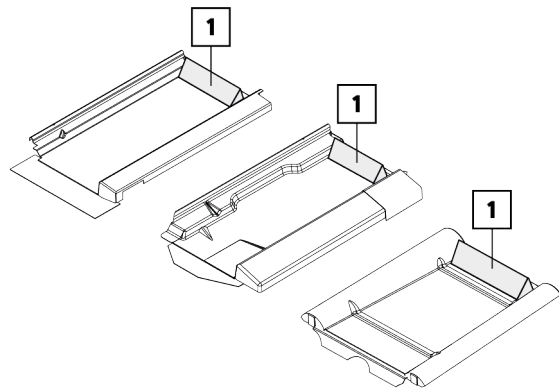


Attach foam wedge



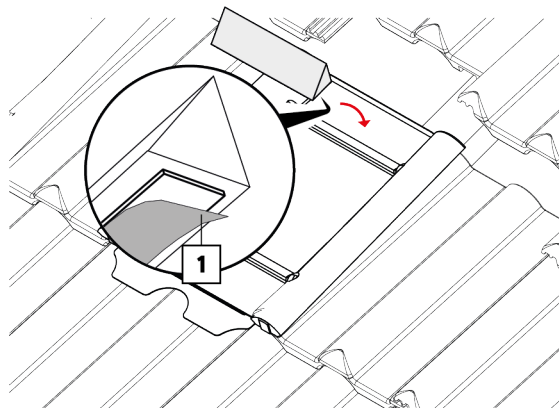
i To ensure that reliable weather resistance can be guaranteed, it is essential that the supplied foam wedge (1) is attached to the metal replacement tile.

The foam wedge is included in the scope of delivery!



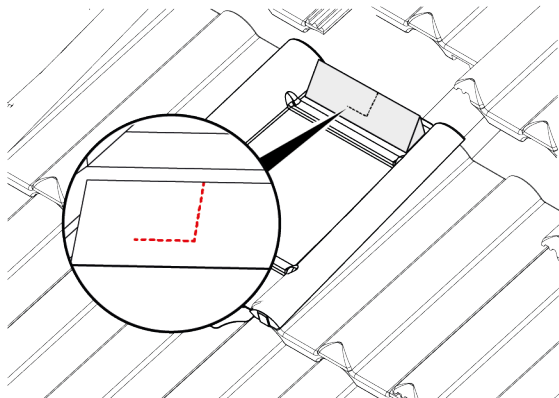
➤ Remove the protective film (1) from the adhesive strip on the foam wedge.

i The surface to be covered must be **dry** and **free of dirt**.



➤ Cut the foam wedge (see figure).

⚠ Warning	
	<p>Risk of injury from sharp objects</p> <p>Cuts from sharp objects can cause severe bleeding.</p> <p>➤ Wear safety gloves</p>



Mount Roof hook

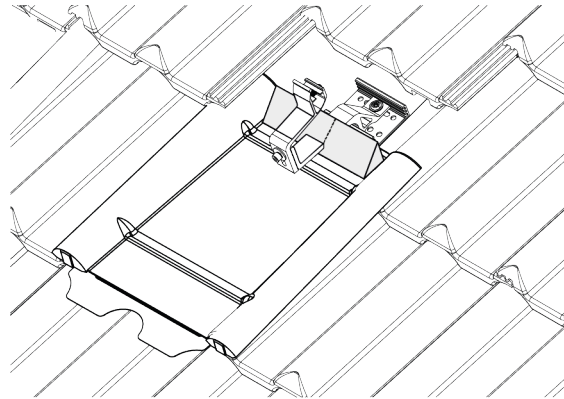


The following steps show an installed XT-R roof hook. Alternatively, an XT roof hook can also be used. The installation instructions for both roof hooks are available in the download area at www.aerocompact.com/downloads.



▶ Mount the roof hook.

ⓘ The foam wedge must completely enclose the roof hook.



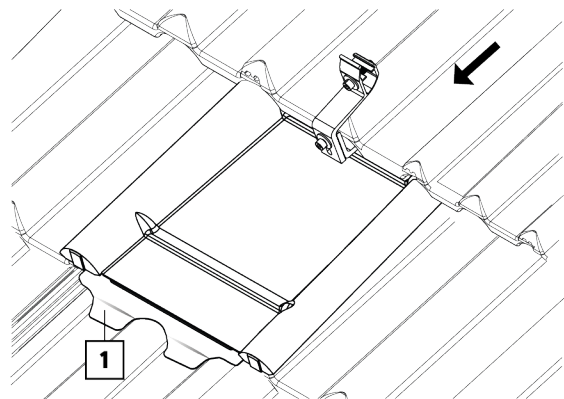
Complete roofing



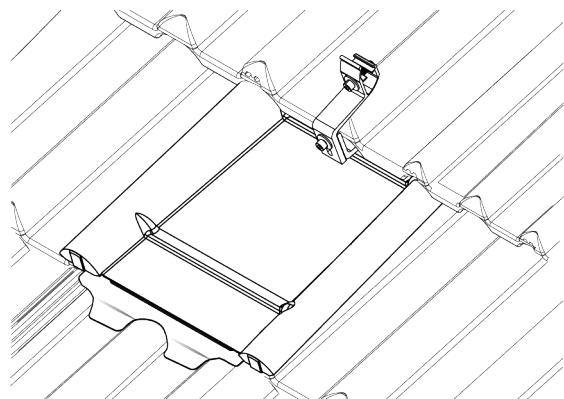
▶ Place the displaced roof tile back in its original position.

ⓘ **Ensure roof tightness!** Make sure that the roof covering is properly closed around the roof hook.

▶ Press on the zinc-magnesium tape (1) with a positive fit.



✓ The metal replacement tile is now fully mounted.

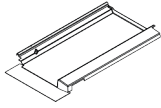


MOUNTING METAL REPLACEMENT TILES - CLAY TILES

i Important Notice:

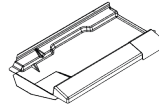
The installation of metal replacement tiles on clay tiles is almost identical to the installation on concrete tiles on page 9. The only difference is that the metal replacement tiles are additionally secured with a **nail** or a **screw**.

Suitable metal replacement tiles:



XM-B25.1

Metal replacement tile for clay tile with foam wedge



XM-B26

Metal replacement tile for clay tile with foam wedge

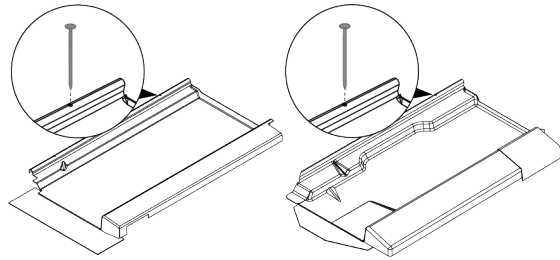
Additional fixing for clay tiles



- Secure the metal **replacement** tiles **XM-B25.1** and **XM-B26** with a suitable nail or screw.

i Attention:

The suitability and procurement of nails or screws must be checked by the on site.



MAINTENANCE, DISASSEMBLY AND DISPOSAL

MAINTENANCE

To prevent personal injury and damage to property, the system must be checked regularly by qualified personnel and annual maintenance is required.

- Check all system components for damage. In the event of damage, replace the affected component immediately.
- Check all screw connections. Tighten loose screw connections, observing the tightening torque specified in the installation instructions.
- Checking all components for damage caused by the weather, animals, dirt, deposits, build-up, vegetation, roof penetrations, seals, stability and corrosion. In the event of damage, clean, repair or replace the affected component.

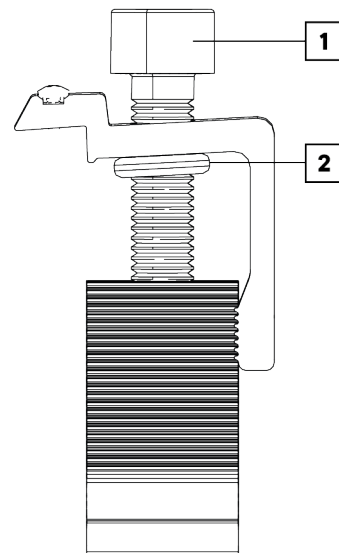
DISASSEMBLY

DISMANTLING THE CLAMPS (EXAMPLE)



i To disassemble the system, carry out the assembly steps in reverse order.

- Unscrew the screw (1) on the clamp.
- When reusing the clamp, ensure that the O-ring (2) is not lost.
- i** If the components are reused, it must be noted that these are wearing parts. Therefore, the AEROCOMPACT Europe GmbH cannot assume any responsibility for checking the degree of wear. For this reason, any liability or warranty of AEROCOMPACT Europe GmbH in case of reuse is excluded and reuse is at the installer's own responsibility.



DISPOSAL

Unless a take-back or disposal agreement has been made, disassembled components should be recycled:

- Give metals and plastic elements for recycling.
- Dispose of remaining components sorted according to material composition.

i Incorrect disposal may result in hazards to the environment. In case of doubt, obtain information on environmentally sound disposal from the local municipal authority or from specialized disposal companies.

APPENDIX

DECLARATION OF PERFORMANCE



Manufacturer: **Aerocompact Europe GmbH**
Gewerbestrasse 16
A-6822 Satteins

Designation: **Metal replacement tile CompactPITCH**
XM-B

Identification code: **XM-B**

Standard applied: **EN 1090-1**

Certification body: **2397**



[To the declaration of performance](#)

Europe / APAC

AEROCOMPACT® Europe GmbH
Gewerbestraße 14
6822 Satteins
Austria
phone: +43 5524 22 566
e-mail: office@aerocompact.com

USA / Canada

AEROCOMPACT® Inc.
901A Matthews Mint Hill Road
Matthews, NC 28105
USA
phone: +1 800 578 0474
e-mail: office.us@aerocompact.com

India

AEROCOMPACT® India Private Ltd.
Hub and Oak
C-360, Defence Colony
New Delhi, 110024
phone: +91 888 26 32 902
e-mail: office.in@aerocompact.com



AEROCOMPACT.COM