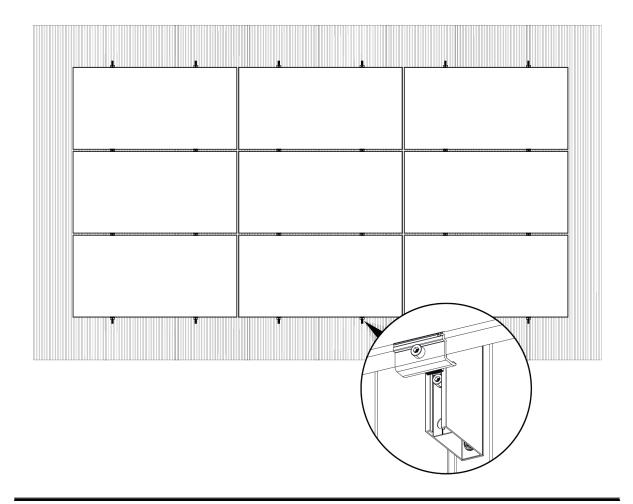
AEROCOMPACT®



Assembly Instruction

COMPACTWALL TSE landscape

Version : 3.1 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

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11/2024



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GENERAL

These assembly instructions describe the assembly procedure and must be strictly adhered to. Read these installation instructions carefully before starting installation. Read and understand these instructions carefully before starting any work. 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 working in the area in which the product is used must be observed. Illustrations in these instructions are for basic understanding and may differ from the actual design.

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 conditions and can be accessed at www.aerocompact.com/downloads.

EXPLANATION OF SYMBOLS

SYMBOLS FOR INSTRUCTIONS



Prerequisites for action instruction



Results of action steps

SYMBOLS IN ILLUSTRATIONS - ACTIVITIES

Check AEROTOOL project report or planning doc-



uments

Activity by hand



Optional component, optional mounting variation

SYMBOLS IN ILLUSTRATIONS - TOOLS



Measuring tape, measure



Pencil, mark



Chalk line



Scissors, tin snips, cut to size



Step by step action instruction



This note provides useful information for smooth installation



Visual inspection





Observe right angle



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 CompactWall façade system is designed exclusively for the safe and efficient installation of PV modules on façades that are constructed in accordance with the applicable local building regulations and standards. Appropriate use also includes professional installation in accordance with these installation instructions. Approval from the module manufacturer is required for the use of PV modules with the CompactWall system. AEROCOMPACT accepts no liability for loss of performance or damage of any kind to the PV modules or the façade construction. Any other use of the system that is not expressly described in these installation instructions is considered inappropriate use and may result in personal injury and damage to property. It is important to observe the safety measures in accordance with the instructions in this installation manual in order to avoid accidents and injuries.

FIRE PROTECTION

It is pointed out that both the project planner and the specialist personnel carrying out the work bear full and independent responsibility for compliance with all specifications applicable to the project with regard to local fire protection standards and are responsible for their implementation on the façade. it is also pointed out that the respective locally applicable legal regulations (in particular building regulations and fire protection regulations) must be checked and complied with during planning and construction.

PERSONNEL REQUIREMENTS

Installation may only be carried out by a specialist company. 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 complied with when installing AEROCOMPACT products on facades. Information from AEROCOMPACT on the necessity of complying with safety measures is provided without guarantee and without claim to completeness and serves only to support the contractual partner. He is obliged to inform himself about all relevant regulations concerning occupational safety and to comply with them. AEROCOMPACT expressly assumes no responsibility and consequently no liability. Areas below the façade 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. In unsuitable weather conditions, work on the façade may not be continued for longer than necessary or may not be started at all. Under no circumstances should installation work be carried out in strong winds. Large-area PV modules in particular are exposed to strong winds, which poses the risk of modules being torn off the façade and causing personal injury. Work should never be carried out in wet conditions or at temperatures below freezing. Separate rules apply to mechanical climbing aids (such as elevators or cherry pickers). The PV mounting system should never be used as a climbing aid. It is important to keep a 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, ensure that there are no burrs, especially on edges and corners, to avoid the risk of injury.

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 safety shoes

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



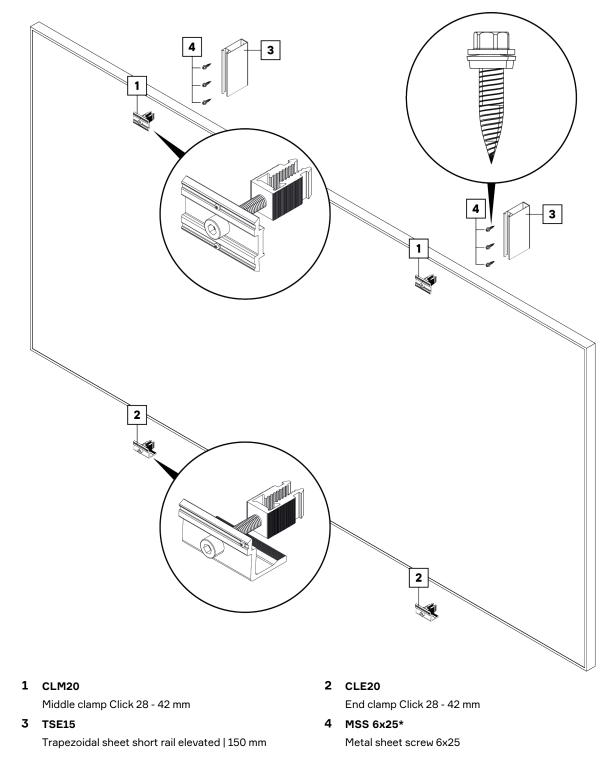
Wear cut-resistant work gloves during

Use fall protection

Wear hearing protection

SYSTEM OVERVIEW

BASIC COMPONENTS FOR TRAPEZOIDAL SHEET METAL FAÇADE TYPE

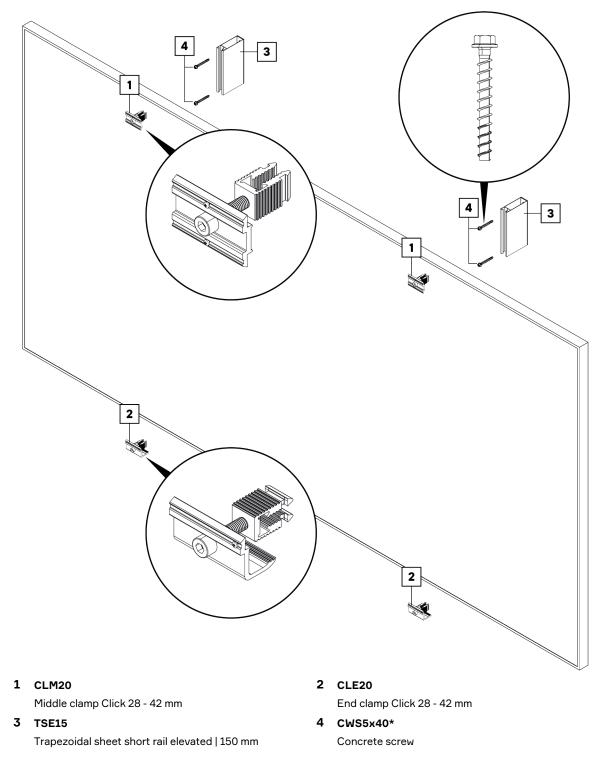


 $\ensuremath{^{\star}}\xspace$ This component is intended for single use only.

CompactWALL TSE landscape

SYSTEM OVERVIEW

BASIC COMPONENTS FOR CONCRETE FAÇADE TYPE



* This component is intended for single use only.

SYSTEM ACCESSORIES



BIT8SL Socket bit SW8 x 150mm

ım



MSS-6x25-AH Metal sheet screw

CLP-R

Cable clip rail

MODULE ACCESSORIES



CLP-U

CLP-M

Cable clip universal



Cable tie clip for module frames with a thickness of 1 - 3 mm

POTENTIAL EQUALIZATION



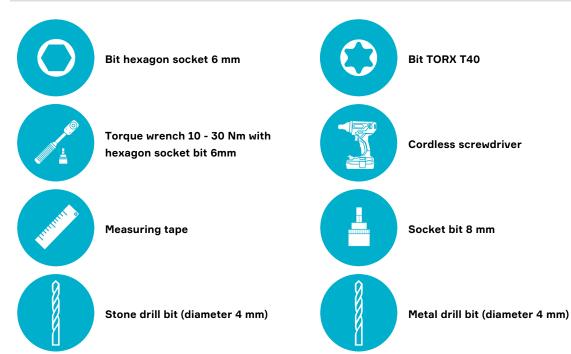
WCL8-10 Wire clamp 8 - 10 mm

ASSEMBLY

ASSEMBLY PREPARATION

Required tools for assembly

i Before starting the assembly, make sure that the assembly personnel are familiar with the proper use of the listed tools.



MEASURE AREA

Module clamping

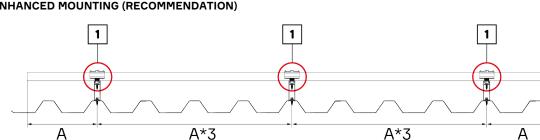
i Important:

The clamping position on the modules varies depending on the type of installation. The following illustrations represent a **recommendation**. Observe the module manufacturer's clamping specifications!

STANDARD MOUNTING (RECOMMENDATION)



The clamping position (1) is 1/4 of the module length (A)



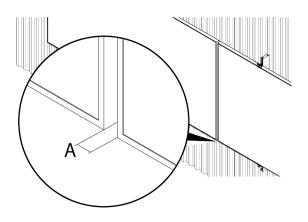
ENHANCED MOUNTING (RECOMMENDATION)

The clamping position (1) is 1/8 of the module length (A)

Module spacing



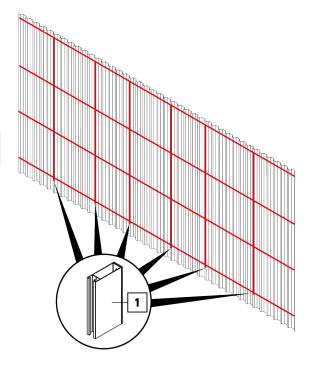
The distance between the modules must be (A) 20 mm.



Mark positions



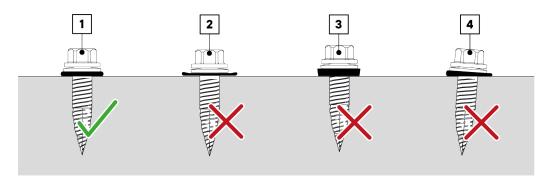
- \blacktriangleright Determine the module dimensions.
- Determine the position of the trapezoidal sheet metal short rail and mark it in the bottom row of the module field.
- Always place the mark for the clamping position on a **high bead** of the trapezoidal sheet.



INSTALLING THE TSE15

TIGHTEN METAL SCREWS WITH ATTACHED EPDM WASHER

i The sealing washer must be compressed by approx. 30 %.



O

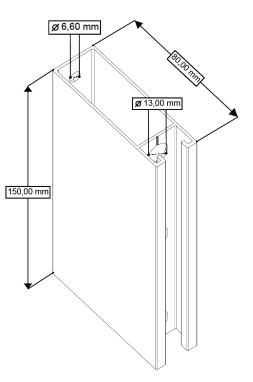
(1) Correct | (2) Tightened too tight | (3) Tightened too weak | (4) Tightened too diagonally

Dimension



i Info:

The TSE15 trapezoidal sheet metal short rail with a height of 80 mm was developed to ensure compliance with roof and wall clearances, to ensure sufficient rear ventilation and to facilitate the installation of optimizers. A bit extension is recommended for installation.

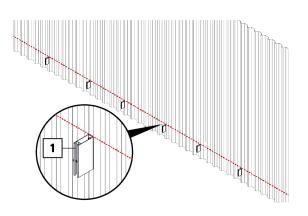


Determine height level

i Note: The following step applies to all façade types.



- **Tip**: It must be ensured that all trapezoidal sheet metal short rails (1) in the **bottom row** have the same height level. A chalk line or a leveling tool is suitable for this purpose.
- Mark the façade so that all TSEs (1) in the first row are positioned at the same height level.

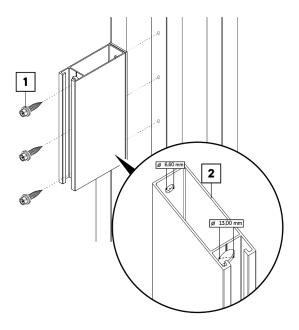


Danger! Danger from laser beams when using the leveling device. Avoid irradiation of eyes and skin Do not look into the laser beam or point it at other people Wear eye protection

Installation façade type trapezoidal sheet metal



- To make installation easier, we recommend using a cordless screwdriver with a bit extension of at least 150 mm. A **bit extension** is available for this purpose.
- Mount the trapezoidal sheet metal short rails (2) with thin sheet metal screws (1) as shown in the illustration.
- Ensure that the trapezoidal short rail rests on the entire surface of the high bead.
- Install the trapezoidal sheet metal short rail at all marked positions.





 Always fit screws with EPDM seal with mechanical depth stop. The sealing washer must be compressed by approx. 30%.



Installation Facade type concrete

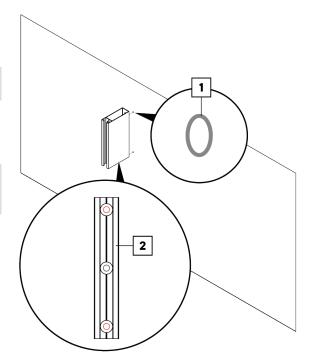
PRE-DRILLING



Important: Two concrete screws are required for the concrete façade type. These must be pre-drilled.

Pre-drill at the marked points (1).

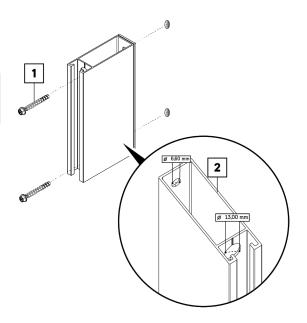
Important: All information on nominal hole diameter, nominal hole depth and information on possible cleaning is usually provided on the packaging of the screws.



TIGHTEN THE TSE

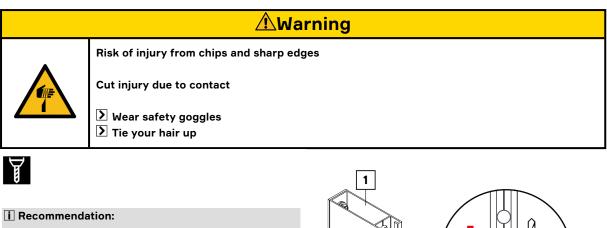


- To make installation easier, we recommend using a cordless screwdriver with a bit extension of at least 150 mm. A **bit extension** is available for this purpose.
- Fasten the trapezoidal sheet metal short rails (2) with two concrete screws (1) as shown in the illustration.



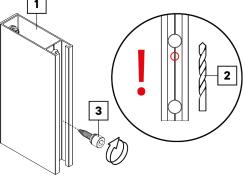
Fitting the mechanical locking screw

The mechanical locking screw ensures the form fit of the end clamp and is screwed into the front of the trapezoidal short rails. The mechanical locking screw is only used in the **bottom row**.



In preparation, we recommend measuring and marking the same distance for the mechanical locking screw on all short rails (1) in the bottom row. Ensure that the holes in the short rail (1) are not covered.

- Mark the position of the locking screw.
- Pre-drill at the marked point (2).
- Recommended drill diameter: 4 mm
- Screw in the screw in the connection (3).

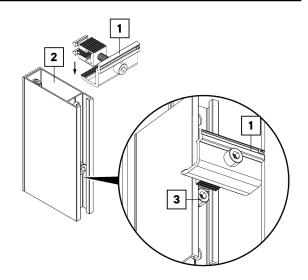




i Important:

The end clamps in the bottom row must be installed before module installation begins.

- Insert the end clamp (1) into the short rail (2) from above as shown in the illustration and push it in as far as the mechanical locking screw (3) will go.
- The trapezoidal sheet metal short rail is now prepared for module installation.

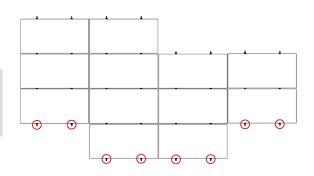


SPECIAL MODULE FIELDS (EXAMPLE)



i Important:

In the case of interfering surfaces, the mechanical locking screw must always be fitted in the bottom row of the module gap (see example).

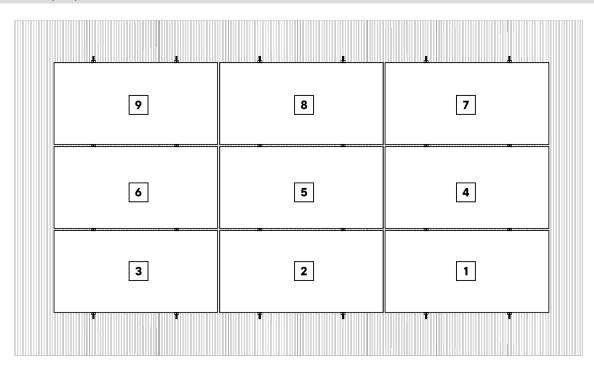


INSTALLING MODULES

i Note: The following steps in this chapter apply to all façade types.

Assembly sequence of the modules

i The illustration below is exemplary and may have a different number of modules depending on the project. The module assembly sequence remains constant.



@

 \blacktriangleright The modules must be installed in ascending order from 1 to 9.

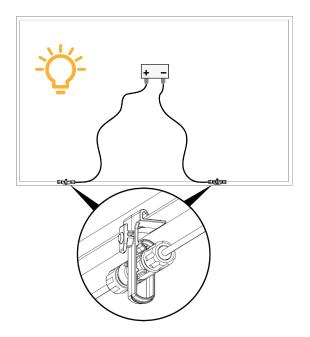
RECOMMENDATION FOR WIRING THE MODULES



i Installation tip:

Before starting the module installation, install two CLP-U per module as shown in the illustration to ensure better accessibility for the subsequent cabling.

If necessary, slide the CLP-U cable clips out of the clamping area.



Standard mounting

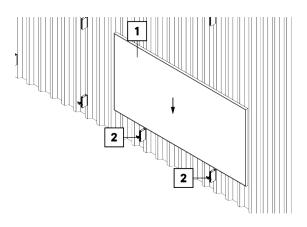
i Attention

Before installation, ensure that the PV modules are suitable for façade mounting.

FIRST MODULE ROW



Place the module (1) on the end clamps (2).



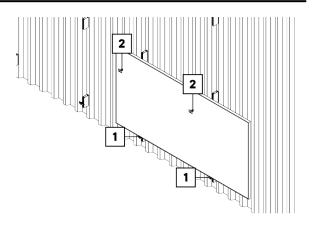


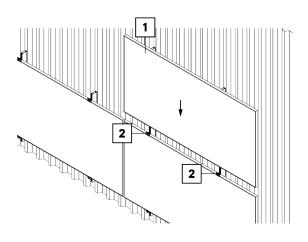
- Tighten the end clamps (1) with a torque of 15 Nm or 11 lb-ft.
- Insert the middle clamps (2) on the opposite side of the module into the trapezoidal sheet metal bridges and screw in (2-3 threads)
- I Mount the other modules in this row in the **same sequence**.

MODULE ROWS IN BETWEEN



Place the module (1) on the middle clamps (2).







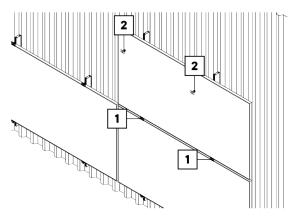
- Tighten the middle clamps (1) with a torque of 15 Nm or 11 lb-ft.
- Insert the middle clamps (2) on the opposite side of the module into the trapezoidal sheet metal bridges and screw in (2-3 threads)

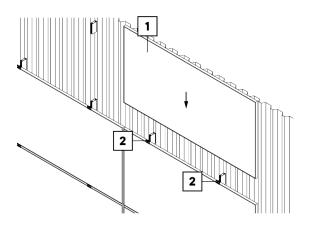
Mount the other modules in this row in the same sequence.

LAST MODULE ROW



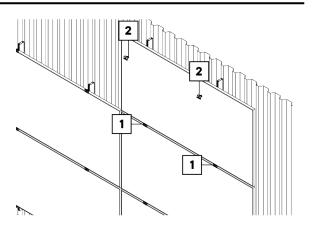
Place the module (1) on the middle clamps (2).







- Tighten the middle clamps (1) with a torque of 15 Nm or 11 lb-ft.
- Insert the end clamps (2) on the opposite side of the module into the trapezoidal sheet metal short rails and tighten to a torque of 15 Nm or 11 lb-ft.
- i Mount the other modules in this row in the **same sequence**.



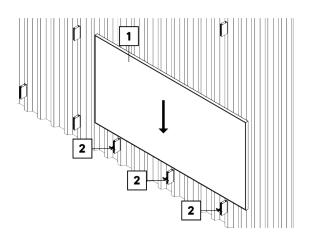
Enhanced mounting

i With enhanced installation, two additional trapezoidal sheet metal short rails are installed per module.

FIRST MODULE ROW

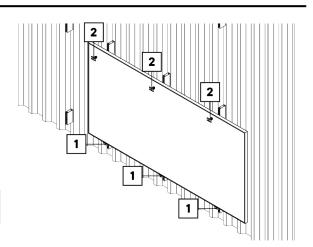


 \blacktriangleright Place the module (1) on the end clamps (2).





- Tighten the end clamps (1) with a torque of 15 Nm or 11 lb-ft.
- Insert the middle clamps (2) on the opposite side of the module into the trapezoidal sheet metal bridges and screw in (2-3 threads)
- I The other modules in the **same sequence** as described in chapter "Standard mounting" on page 19.



CABLE MANAGEMENT

CABLE CLIP CLP-M FOR MODULES

i The CLP-M cable clip is suitable for module frames with a sheet thickness of 1 - 3 mm.

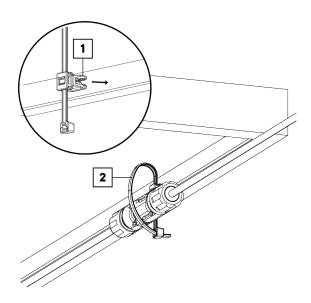


CLP-M Cable tie clip for module frames with a thickness of 1 - 3 mm

ASSEMBLY



- Insert the CLP-M (1) into the module frame.
- \blacktriangleright The CLP-U is suitable for:
 - Solar plug (e.g. MC4)
 - Solar cable
- \blacktriangleright Then tighten the cable tie (2).



CABLE CLIP CLP-U FOR MODULES

i The CLP-U cable clip is suitable for module frames with a sheet thickness of 1.5 - 3 mm.



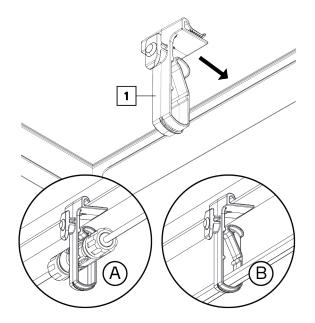
CLP-U Cable clip universal

ASSEMBLY



Insert the CLP-U (1) into the module frame.
 The CLP-U is suitable for:

- A Solar connectors (e.g. MC4)
- B Solar wire



POTENTIAL EQUALIZATION

REQUIRED COMPONENTS



Trapezoidal sheet short rail elevated

MOUNTING WIRE CLAMP



i Attention:

The wire clamp is intended exclusively for use with a round wire with a diameter of **8-10 mm**.

- Insert the wire clamp (1) into the TSE15 (2).
- Ensure that the threaded plate (3) is positioned as shown in the illustration.
- **>** Clamp the round wire.
- Then tighten the wire clamp (1) with a torque of 10 Nm or 7.38 ft-lb.

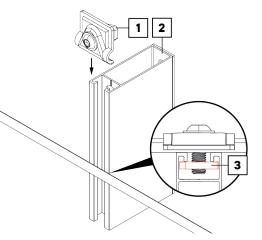
POTENTIAL EQUALIZATION

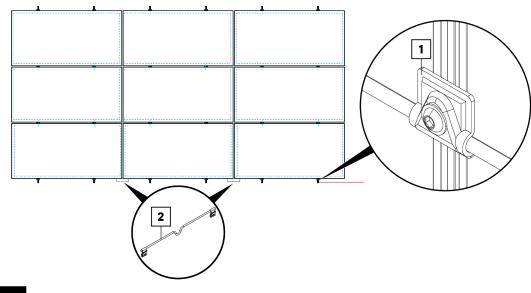


G.

BJ8

8" Bonding Jumper (approved for outdoor use and UL 467 and UL 2703 compliant)





Install the wire clamp (1) with the on-site bonding.

Attach a bonding jumper (2) to each module column in the first row.

DETERMINATION OF ORDER QUANTITY

TSE LANDSCAPE

The following table serves only as an example and offers ordering suggestions for the CompactWALL façade system. This information is intended as a guide. The exact order quantities must always be adapted to the specific requirements of the current project and may therefore differ from the quantities stated here.

Components for façade type trapezoidal sheet metal

Item number	Component	ltem number	Component
705516-150	TSE15 Trapezoidal sheet short rail elevated	701514	MSS6x25 Thin sheet metal screw 6x25
707015	CLM20 Middle clamp Click 28 - 42	707005	CLE20 End clamp Click 28 - 42 mm
701589	MSS-6x25-AH Metal sheet screw	706462	WCL8-10 Wire clamp 8 - 10 mm

Components for concrete façade type

Item number	Component	ltem number	Component
705516-150	TSE15 Trapezoidal sheet short rail elevated	701612	GWS5x40 Concrete screw
707015	CLM20 Middle clamp Click 28 - 42	707005	CLE20 End clamp Click 28 - 42 mm
701589	MSS-6x25-AH Metal sheet screw	706462	WCL8-10 Wire clamp 8 - 10 mm

Trapezoidal sheet metal façade type

Determining the order quantity for standard assembly

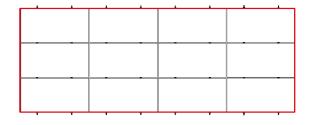
The following list serves as an aid for determining the exact order quantity. Each entry in the following list corresponds to the order quantity of a module column, which is multiplied by **x**. The value **x** stands for the number of modules in a row.

Modules in one column	TSE15*x	CLM20*x	CLE20*x	MSS6x25*x	MSS-6x25-AH	WCL8-10
1	4	-	4	12	2	1
2	6	2	4	18	2	1
3	8	4	4	24	2	1
4	10	6	4	30	2	1
5	12	8	4	36	2	1
6	14	10	4	42	2	1
7	16	12	4	48	2	1
8	18	14	4	54	2	1
9	20	16	4	60	2	1

x = number of modules in a row

CALCULATION EXAMPLE FOR STANDARD INSTALLATION (1)

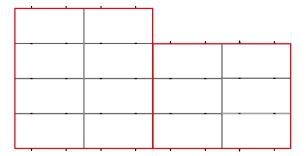
Component	Calculation ¹	Quantity
TSE15	8*4	32 pcs
CLM20	4*4	16 pcs
CLE20	4*4	16 pcs
MSS6x25	4*24	96 pcs
MSS-6x25-AH	4*2	8 pcs
WLC8-10		1 pc



¹Values from the table * Number of modules in a row

CALCULATION EXAMPLE FOR STANDARD INSTALLATION (2)

Component	Calculation ¹	Quantity
TSE15	(10*2) + (8*2)	36 pcs
CLM20	(6*2) + (4*2)	20 pcs
CLE20	(4*2) + (4*2)	16 pcs
MSS6x25	(30*2) + (24*2)	104 pcs
MSS-6x25-AH	(2*2) + (2*2)	8 pcs
WLC8-10		1 pc



Determining the order quantity for enhanced assembly

The following list serves as an aid for determining the exact order quantity. Each entry in the following list corresponds to the order quantity of a module column, which is multiplied by **x**. The value **x** stands for the number of modules in a row.

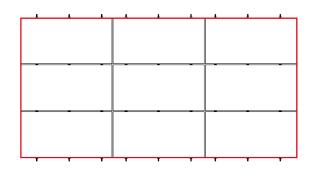
Modules in one column	TSE15*x	CLM20*x	CLE20*x	MSS6x25*x	MSS-6x25-AH	WCL8-10
1	6	-	6	18	3	1
2	9	3	6	27	3	1
3	12	6	6	36	3	1
4	15	9	6	45	3	1
5	18	12	6	54	3	1
6	21	15	6	63	3	1
7	24	18	6	72	3	1
8	27	21	6	81	3	1
9	30	24	6	90	3	1

x = number of modules in a row

(1)

CALCULATION EXAMPLE FOR ENHANCED ASSEMBLY

Component	Calculation ¹	Quantity
TSE15	12*3	36 pcs
CLM20	6*3	18 pcs
CLE20	6*3	18 pcs
MSS6x25	36*3	108 pcs
MSS-6x25-AH	3*3	9 pcs
WLC8-10		1 pc



¹Values from the table * Number of modules in a row

CALCULATION EXAMPLE FOR ENHANCED ASSEMBLY

(2)		
Component	Calculation ¹	Quantity
TSE15	(12*3) + (9*2)	54 pcs
CLM20	(6*3) + (3*2)	24 pcs
CLE20	(6*3) + (6*2)	30 pcs
MSS6x25	(36*3) + (54*2)	216 pcs
MSS-6x25-AH	(3*3) + (3*2)	15 pcs
WLC8-10		1 pc

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Concrete façade type

Determining the order quantity for standard assembly

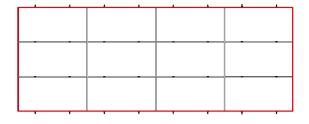
The following list serves as an aid for determining the exact order quantity. Each entry in the following list corresponds to the order quantity of a module column, which is multiplied by **x**. The value **x** stands for the number of modules in a row.

Modules in one column	TSE15*x	CLM20*x	CLE20*x	Concrete screw*x	MSS-6x25-AH	WCL8-10
1	4	-	4	8	2	1
2	6	2	4	12	2	1
3	8	4	4	16	2	1
4	10	6	4	20	2	1
5	12	8	4	24	2	1
6	14	10	4	28	2	1
7	16	12	4	32	2	1
8	18	14	4	36	2	1
9	20	16	4	40	2	1

x = number of modules in a row

CALCULATION EXAMPLE FOR STANDARD INSTALLATION (1)

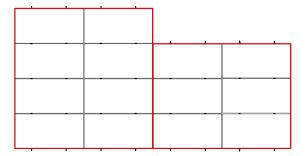
Component	Calculation ¹	Quantity
TSE15	8*4	32 pcs
CLM20	4*4	16 pcs
CLE20	4*4	16 pcs
Concrete screw	4*16	64 pcs
MSS-6x25-AH	4*2	8 pcs
WLC8-10		1 pc



¹Values from the table * Number of modules in a row

CALCULATION EXAMPLE FOR STANDARD INSTALLATION (2)

Component	Calculation ¹	Quantity
TSE15	(10*2) + (8*2)	36 pcs
CLM20	(6*2) + (4*2)	20 pcs
CLE20	(4*2) + (4*2)	16 pcs
Concrete screw	(20*2) + (16*2)	72 pcs
MSS-6x25-AH	(2*2) + (2*2)	8 pcs
WLC8-10		1 pc



Determining the order quantity for enhanced assembly

The following list serves as an aid for determining the exact order quantity. Each entry in the following list corresponds to the order quantity of a module column, which is multiplied by **x**. The value **x** stands for the number of modules in a row.

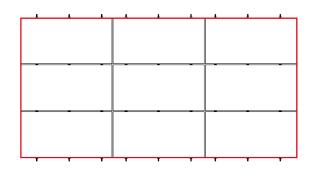
Modules in one column	TSE15*x	CLM20*x	CLE20*x	Concrete screw*x	MSS-6x25-AH	WCL8-10
1	6	-	6	12	3	1
2	9	3	6	18	3	1
3	12	6	6	24	3	1
4	15	9	6	30	3	1
5	18	12	6	36	3	1
6	21	15	6	42	3	1
7	24	18	6	48	3	1
8	27	21	6	54	3	1
9	30	24	6	60	3	1

x = number of modules in a row

(1)

CALCULATION EXAMPLE FOR ENHANCED ASSEMBLY

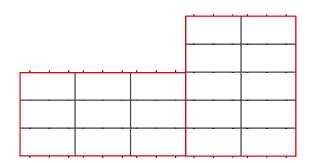
•		.
Component	Calculation ¹	Quantity
TSE15	12*3	36 pcs
CLM20	6*3	18 pcs
CLE20	6*3	18 pcs
Concrete screw	24*3	72 pcs
MSS-6x25-AH	3*3	9 pcs
WLC8-10		1 pc



¹Values from the table * Number of modules in a row

CALCULATION EXAMPLE FOR ENHANCED ASSEMBLY

(2)		
Component	Calculation ¹	Quantity
TSE15	(12*3) + (9*2)	54 pcs
CLM20	(6*3) + (3*2)	24 pcs
CLE20	(6*3) + (6*2)	30 pcs
Concrete screw	(24*3) + (36*2)	144 pcs
MSS-6x25-AH	(3*3) + (3*2)	15 pcs
WLC8-10		1 pc



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.

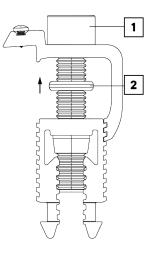
- Check all system components for damage. In the event of damage, replace the affected component immediately.
- Check all screw connections. Tighten loose screw connections, observing the tightening torque specified in the installation instructions.
- Check all components for damage caused by the weather, animals, dirt, deposits, build-up, fouling, seals and corrosion. In the event of damage, clean, repair or dispose of the affected component.
- Check whether new obstacles could cast shadows on the PV modules. Shading can significantly impair the performance of the modules. It is therefore important to recognize and rectify them at an early stage.

DISASSEMBLY

DISMANTLING THE CLAMPS (EXAMPLE)



- To disassemble the system, carry out the assembly steps in reverse order.
- Dunscrew the screw (1) on the clamp.
- When reusing the clamp, ensure that the O-ring (2) is not lost.
- 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.

DECLARATION OF PERFORMANCE

	Manufacturer:	Aerocompact Europe GmbH Gewerbestrasse 16 A-6822 Satteins	
	Designation:	Mounting system for the installation of PV-Modules on walls	8.
	Identification code:	TS15, TSE15, TL25, TLE25, TL38, TLE38	
	Applied standard:	EN 1090-1	
	Certification body:	2397	<u>To the</u> forma



To the declaration of performance

REVISION HISTORY

Version	Chapter	Modification
v3.1	"Cable management" on page 22	New chapter added

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