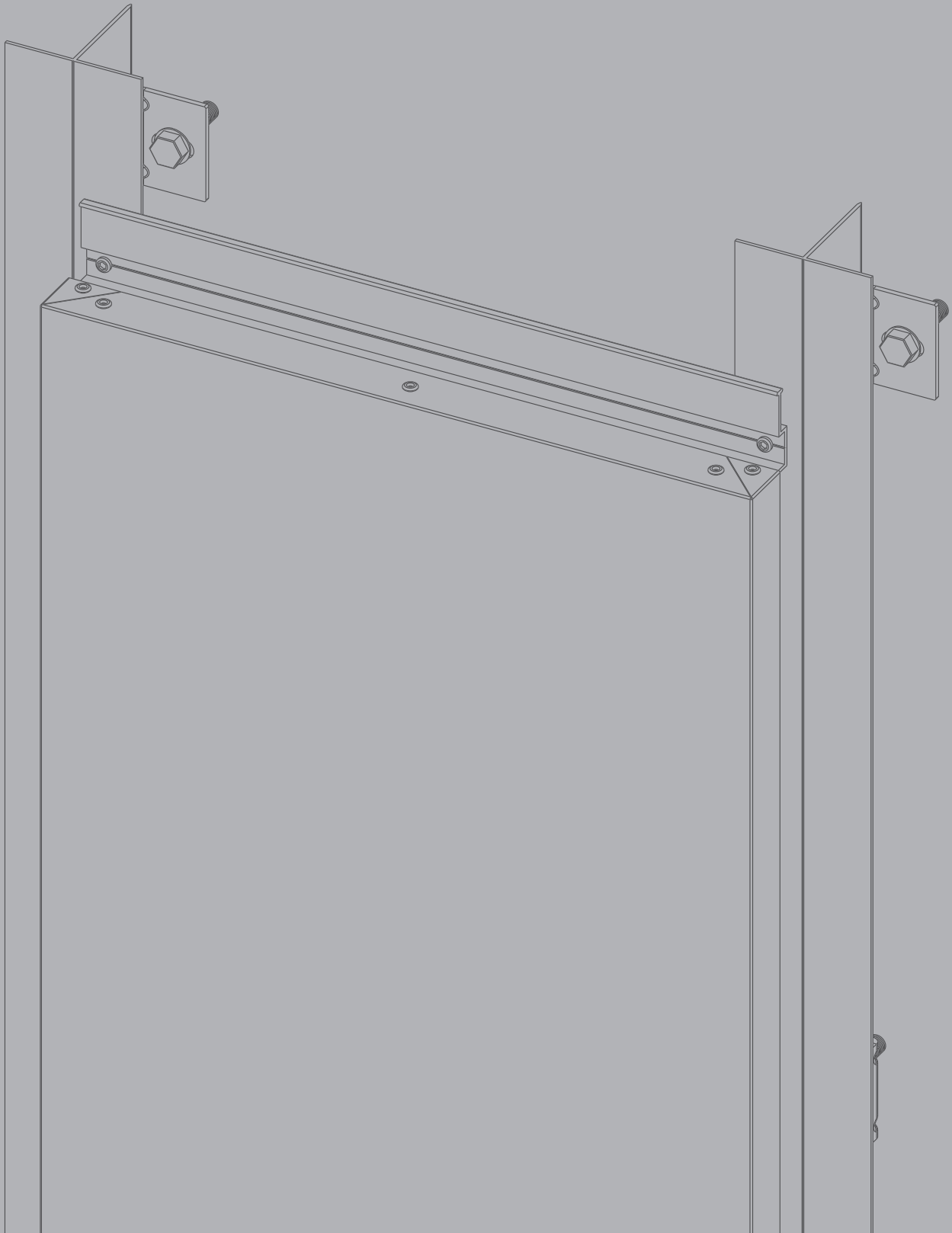


STB-T-SZ

MALE-FEMALE SYSTEM



STB-T-SZ SYSTEM

DESCRIPTION



STB-T-SZ is a kit system based on cassettes made from **STACBOND® composite panels for installing ventilated facades**. It is a hidden male-female coupling system which is quick and easy to install. It was specially designed to develop facades with horizontal aspect of mainly solid wall with little surface area of openings or linear spaces.

The system comprises two 6063 T5 aluminium alloy profiles onto which the pre-formed cassettes are attached:

- Lower female profile, called **profile S**.
- Upper male profile, called **profile Z**.

The substructure employs **profiles T** and **spacers L** in 6063 T5 aluminium alloy.

The spacers come in various lengths to house the required thickness of thermal insulation and compensate any irregularities in the facade. For the thermal break, **STAC®** has developed specific **INSULATING WEDGES** to place between the spacers L and the vertical face.

The spacers are anchored to the wall using special mechanical fixings, recommended in each case by the fixings suppliers, and receive the T profiles as uprights.

The **STACBOND®** composite panel cassettes are mechanically attached to the uprights. The facade is constructed from the base up in a manner that the profile S of each upper cassette sits on the profile Z of the cassette below it. Mechanical anchoring is via screwing the profiles Z to the profile T.

To avoid vibration of the male-female cassettes and the profiles S and Z, protective EPDM gaskets are incorporated.

STAC® has developed a program for the specific calculations of the substructure with the criteria from the Technical approval Document (DIT plus 553p/16) established by the Instituto de Ciencias de la Construcción Eduardo Torroja for each project executed, defining the maximum distances between uprights and the number of fixings.

The **STB-T-SZ** system complies with all major international certifications.



ETA-ETE: 15/0655



Nº 553P/16



ITB - KOT 2017/0043



ASOCIACIÓN ESPAÑOLA DE INDUSTRIAS Y CONSTRUCCIONES



SPACERS L



PROFILES T

1. Spacers L to fix the profile to the facade. The spacers L join the profile T to the vertical face or support wall and are used to overcome irregularities in the plumbness of the facade. They are either retaining or supporting. **Insulating wedges** can optionally be installed to act as thermal bridge breaks.

2. The profiles T are screwed to the spacers L. They must be perfectly plumb with the adjustment that the system allows. The first and last fixings to the face must be placed at a maximum of 250 mm from the ends of the profile.



BASE PROFILE Z



STACBOND COMPOSITE PANEL CASSETTE

3. Profile S and profile Z. These profiles longitudinally strengthen the cassette in both its upper and lower parts. The profile Z is fitted in the upper part and has a EPDM adhesive strip which surrounds the vertical wing of the profile to absorb possible spaces between the male and female parts to avoid noise caused by vibration. These profiles are attached to the cassettes using rivets.

4. STACBOND® composite panel cassette. Once the cassette has been formed with the profile Z in the upper part and the profile S in the lower part, it is set up to the facade. Cladding is performed from the bottom row up in a manner so that each cassette rests on the one below and is mechanically fastened in the upper part by screwing the profile Z to the upright profile T.

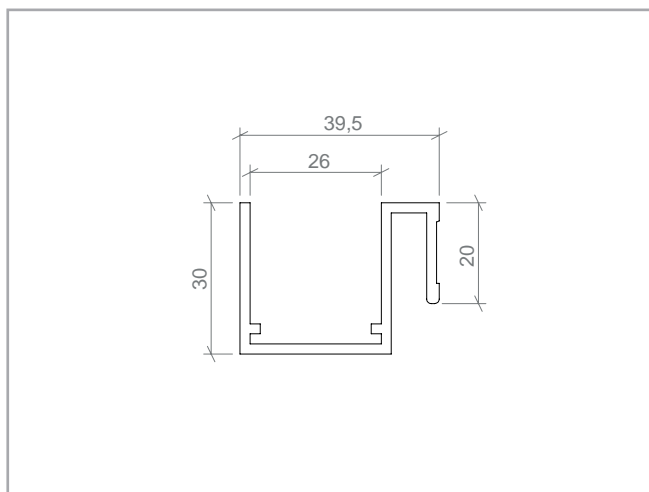
STB-T-SZ SYSTEM

AUXILIARY ELEMENTS

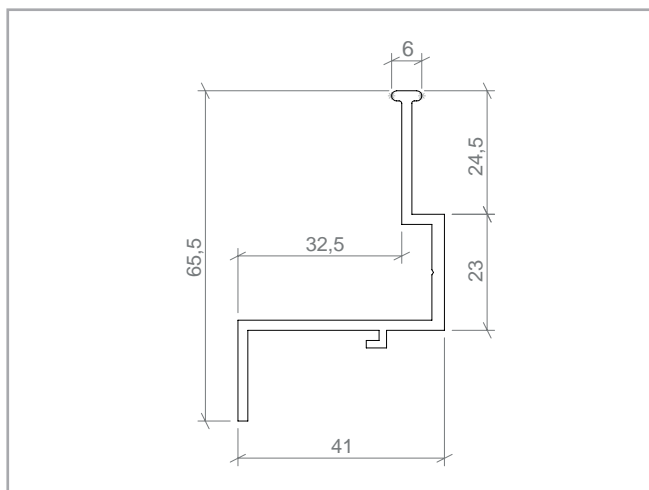
PROFILE S AND PROFILE Z



PROFILE S

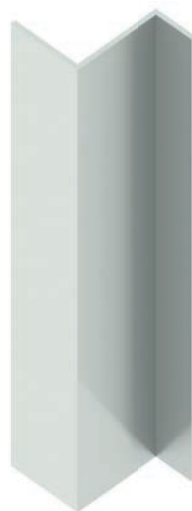


PROFILE Z



Measurements in mm

REINFORCEMENT STB-T-SZ



The reinforcement STB-T-SZ is a segment of profile of 200 mm specific length, covers the internal distance between the SZ cassette and the substructure.

This part is attached to the substructure profile with screws.

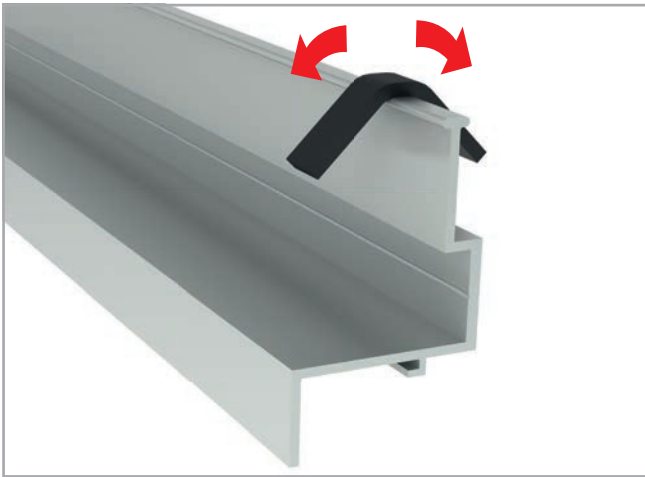
EPDM GASKET PROFILE SZ



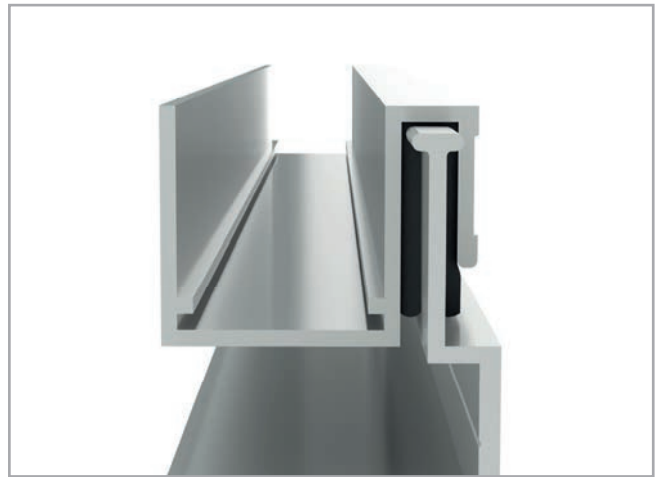
We provide a EPDM protection gasket to place between the two profiles and absorb any slack.

REFERENCE	DESCRIPTION	UNITS/BOX
05.19.001	PROFILE S	24
05.19.002	PROFILE Z	18
05.19.049	REINFORCEMENT STB-T-SZ	180
STB-JEPDM	EPDM GASKET PROFILE SZ (m.l.)	-

USING THE EPDM GASKET PROFILE SZ



The segments of EPDM gasket must be placed on the head of the profile Z and wrapped around to cover both sides. The recommended size of these strips is 60 mm.



The recommended maximum distance between segments is 500 mm. Using this accessory eliminates possible vibrations between the panels and allows them to be adjusted to ensure flatness of the facade.

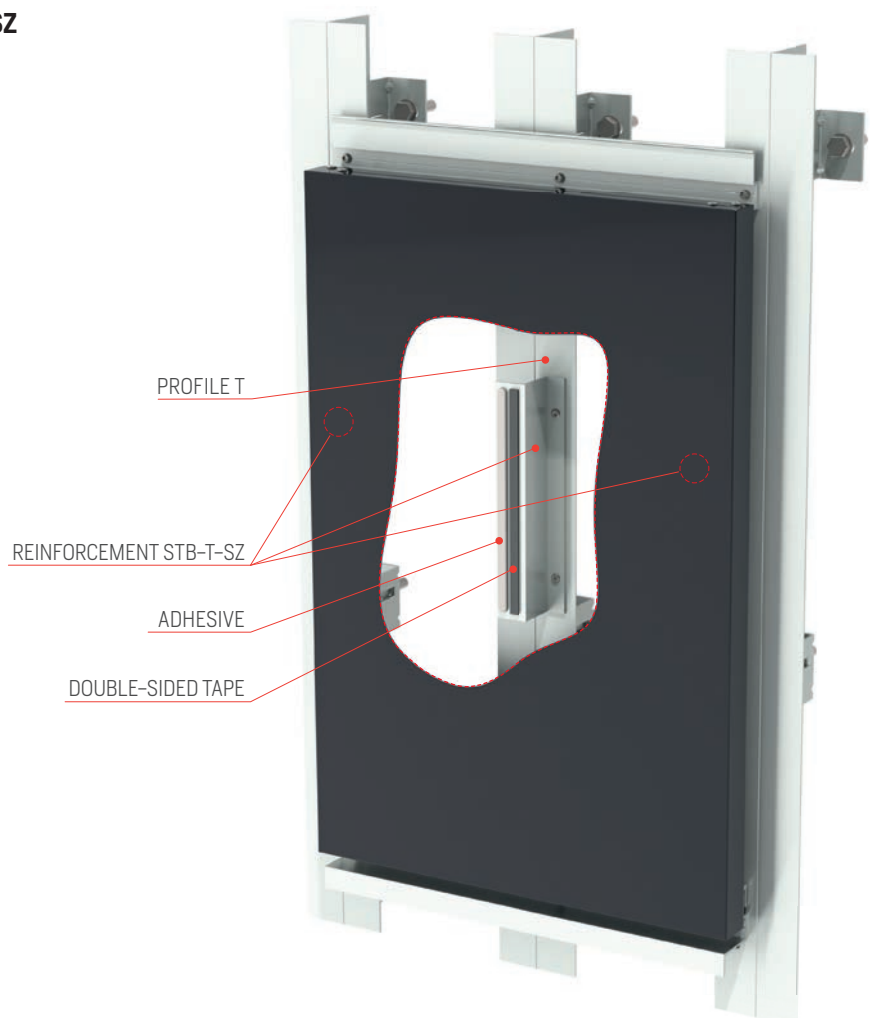
USING THE REINFORCEMENT STB-T-SZ

The use of the STB-T-SZ reinforcement depends on the height of the tray and the wind load of the project site. For more detailed information please consult STAC®.

It must be used on each of the upright profiles T that support the composite panel cassette.

The reinforcement is mechanically attached to the front face of the profile and special adhesive and double-sided adhesive tape is applied.

The cassette is then fitted and fixed using rivets in the upper profile Z.



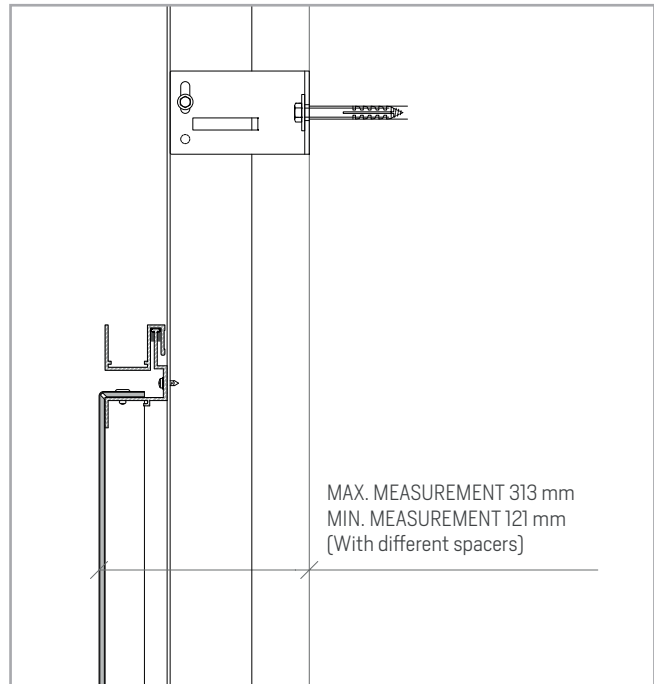
STB-T-SZ SYSTEM

INSTALLING SZ CASSETTE

UPPER FIXING



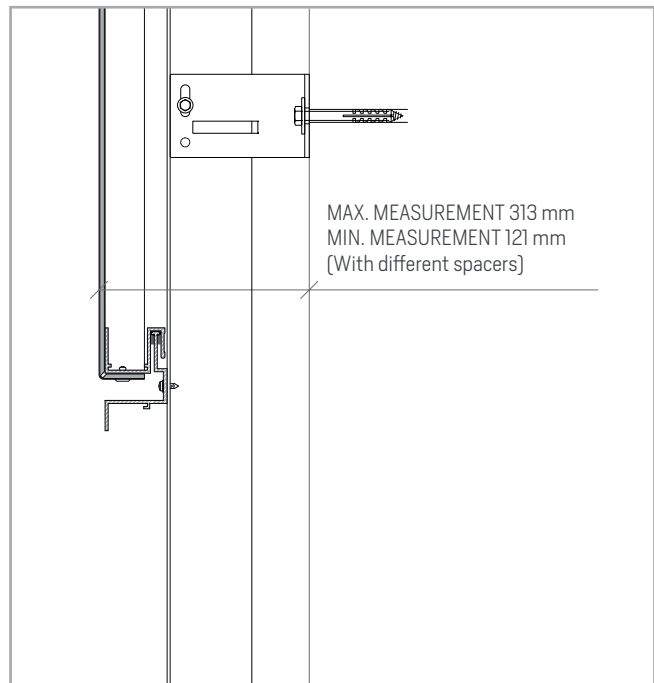
VERTICAL CROSS-SECTION



LOWER FIXING



VERTICAL CROSS-SECTION

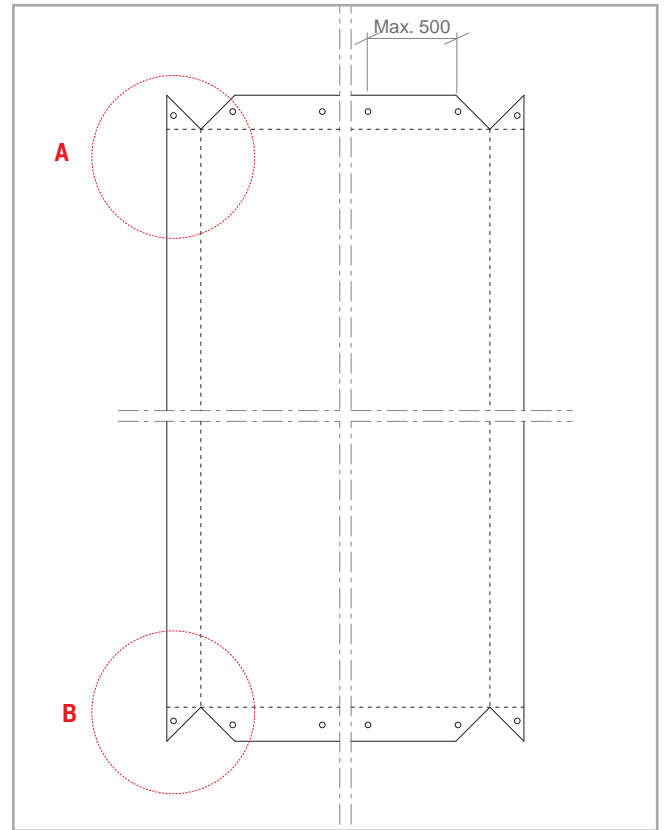


Note: The machined STACBOND® panels are supplied flat. The client is responsible for forming them into cassettes. No specialist machinery is required.

FORMED CASSETTE

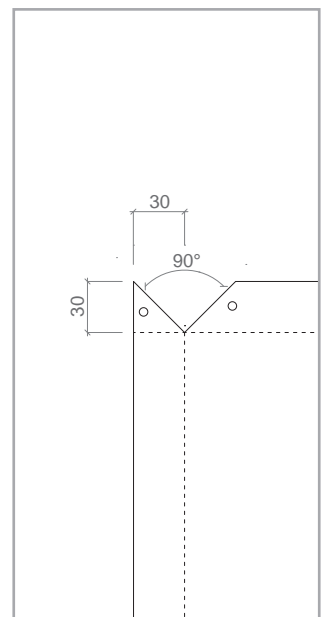
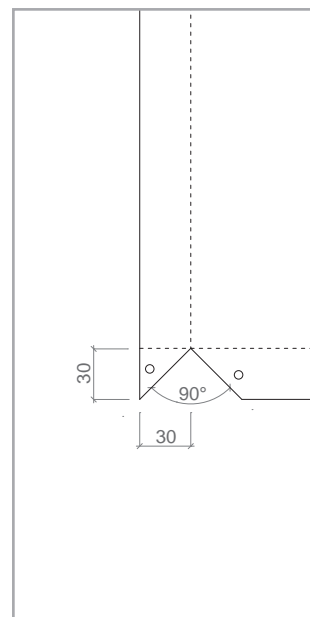


FLAT CASSETTE



DETAIL A

DETAIL B



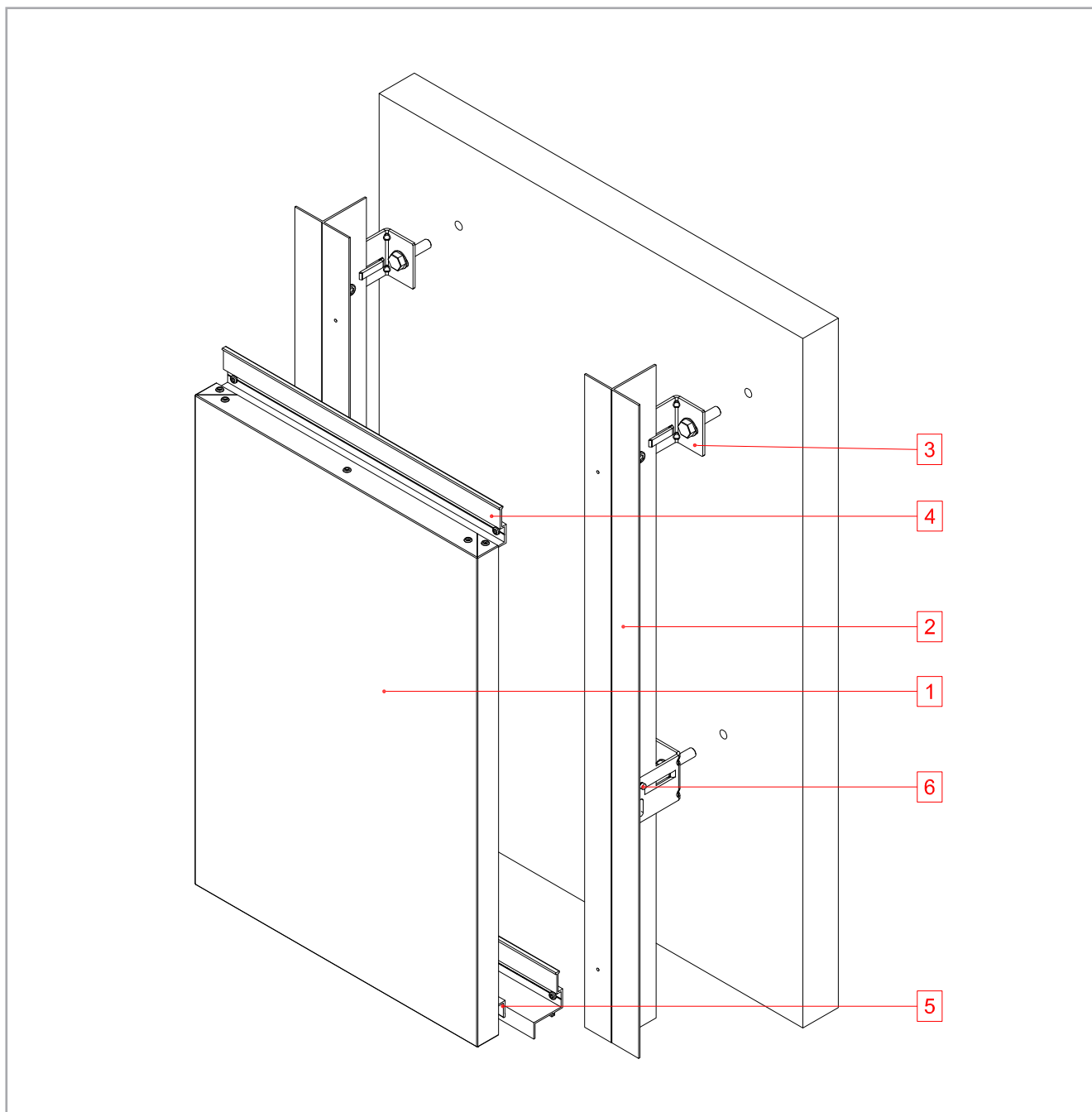
Measurements in mm

The standard cassettes in the STB-T-SZ system have 30 mm flaps. To form the cassettes, they are mechanically fastened via rivets directly to the longitudinal profiles S and Z.

The profile Z is attached in the lower part and the profile S in the upper part of the cassette. These profiles provide the cassettes with great longitudinal rigidity.

STB-T-SZ SYSTEM

INSTALLATION DIAGRAM

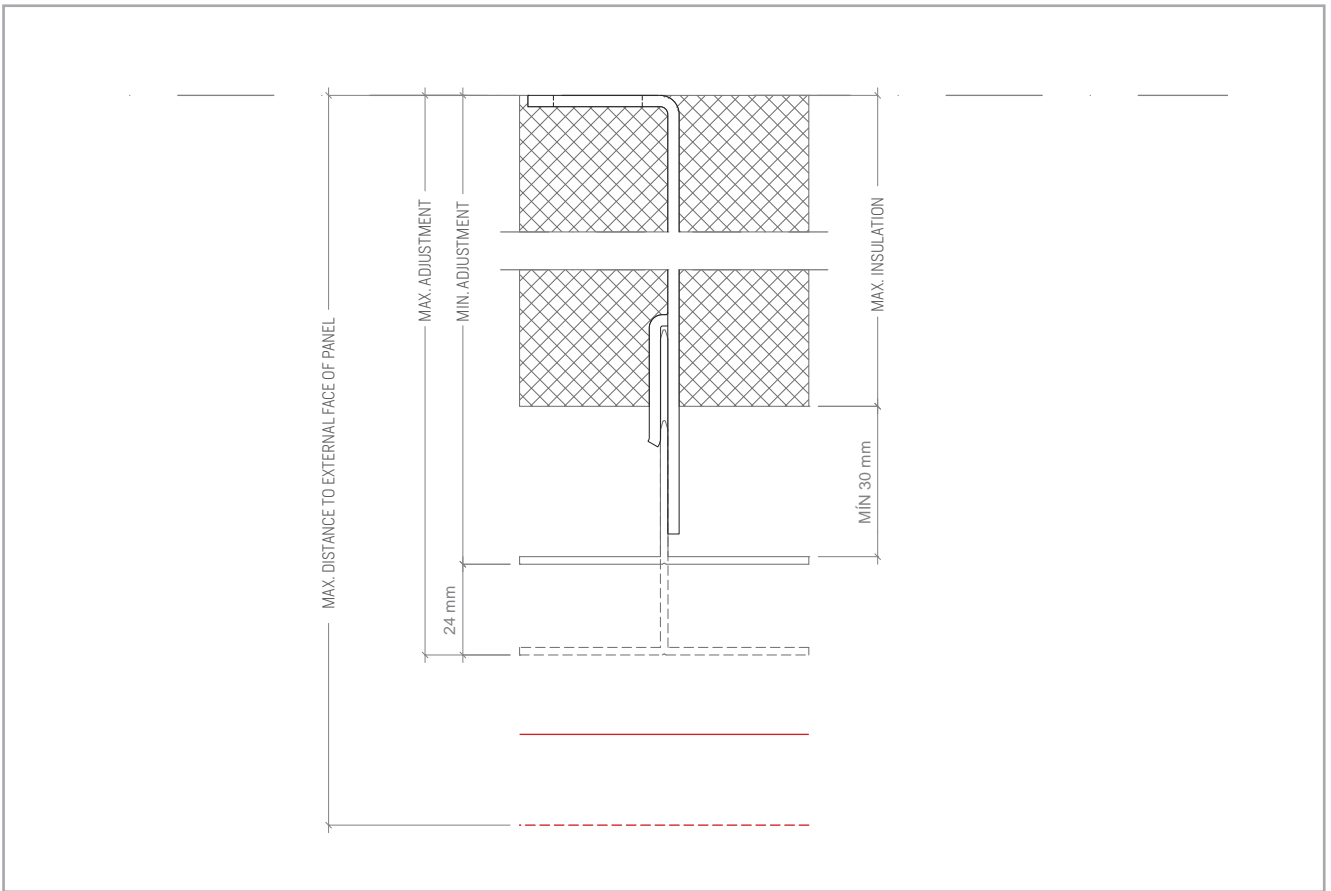


N° NAME

- | | |
|---|--|
| 1 | Cassette made from STACBOND® composite panel |
| 2 | Profile T |
| 3 | Spacer L |
| 4 | Profile Z |
| 5 | Profile S |
| 6 | Self-tapping screw |

STB-T-SZ SYSTEM

SPACER / THERMAL INSULATION RELATIONSHIP



SPACER L * ST-1-55		DISTANCE (mm) FROM BASE OF FIXING TO VISIBLE FACE OF PANEL		RECOMMENDED INSULATION (mm) WITH 30 mm AIR CAVITY
REF.	PART	MIN.	MAX	
05.19.041	SPACER L 68 ST-1-55	121	145	40
05.19.044	SPACER L 92 ST-1-55	145	169	80
05.19.051	SPACER L 116 ST-1-55	169	193	100
05.19.052	SPACER L 140 ST-1-55	193	217	120
05.19.053	SPACER L 164 ST-1-55	217	241	140
05.19.054	SPACER L 188 ST-1-55	241	265	160
05.19.055	SPACER L 212 ST-1-55	265	289	200
05.19.056	SPACER L 236 ST-1-55	289	313	220

SPACER L * ST-2-120		DISTANCE (mm) FROM BASE OF FIXING TO VISIBLE FACE OF PANEL		RECOMMENDED INSULATION (mm) WITH 30 mm AIR CAVITY
REF.	PART	MIN.	MAX	
05.19.042	SPACER L 68 ST-2-120	121	145	40
05.19.045	SPACER L 92 ST-2-120	145	169	80

STB-T-SZ SYSTEM

ACCESSORIES

PROFILES

REF.	PART	PAGE
05.19.043	PROFILE T	106
05.19.001	PROFILE S	
05.19.002	PROFILE Z	
05.19.074	PROFILE Z 20	107
05.19.063	PROFILE Z 24	

SPACERS

REF.	PART	PAGE
05.19.041	SPACER L 68 ST-1-55	
05.19.044	SPACER L 92 ST-1-55	
05.19.051	SPACER L 116 ST-1-55	
05.19.052	SPACER L 140 ST-1-55	
05.19.053	SPACER L 164 ST-1-55	
05.19.054	SPACER L 188 ST-1-55	109
05.19.055	SPACER L 212 ST-1-55	
05.19.056	SPACER L 236 ST-1-55	
05.19.042	SPACER L 68 ST-2-120	
05.19.045	SPACER L 92 ST-2-120	

AUXILIARY ELEMENTS

REF.	PART	PAGE
05.19.049	REINFORCEMENT STB-T-SZ	
STB-JEPDM	EPDM GASKET PROFILE SZ (m.l.)	110





FASTENING ACCESSORIES

REF.	PART	PAGE
STB-R0300	BLIND RIVET POLYGRIP SFS ASO-D-48150 ALU/INOX 4,8X15	113

INSULATING WEDGES

REF.	PART	PAGE
05.19.070	3 x GROOVE WASHER FOR INSULATING WEDGES WITH REF.: 05.19.066 / 05.19.068 / 05.19.072	
05.19.066	INSULATING WEDGE FOR SPACERS L * ST-2-120 WITH REF.: 05.19.042 / 05.19.045	115
05.19.068	INSULATING WEDGE FOR SPACERS L * ST-1-55 WITH REF.: 05.19.053 / 05.19.054 / 05.19.055 / 05.19.056	
05.19.072	INSULATING WEDGE FOR SPACERS L * ST-1-55 WITH REF.: 05.19.041 / 05.19.044 / 05.19.051 / 05.19.052	

INFORMATION AND SALES

 (+34) 981 817 036
 (+34) 981 817 037
 stacbond@stac.es
 www.stac.es