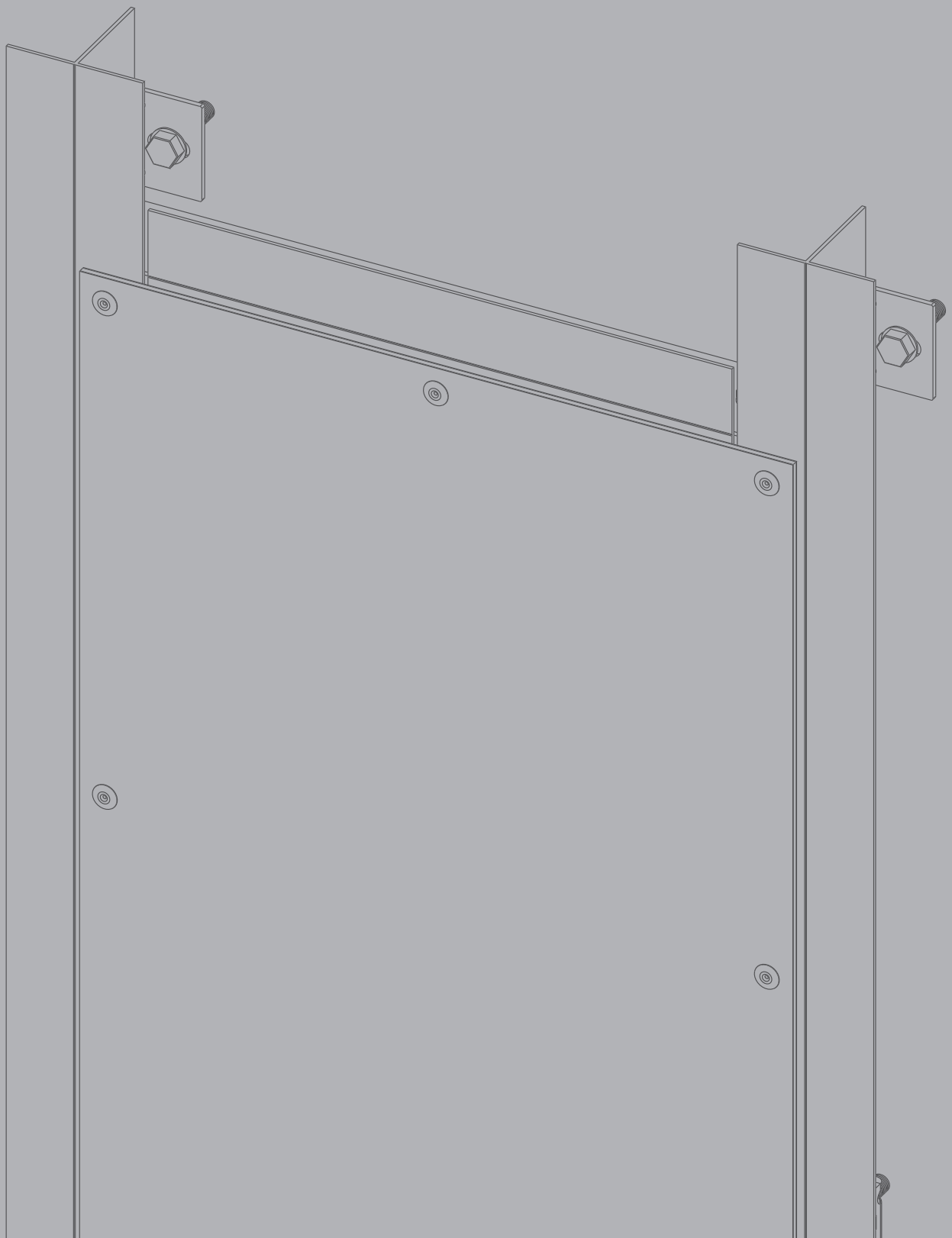
STB-T-REM

RIVETED SYSTEM



STB-T-REM SYSTEM
DESCRIPTION

STB-T-REM is a kit system based on flat panels made from STAC**BOND**® **composite panels for installing ventilated facades**.It is a system with visible fixings which is quick to install and which allows both horizontal and vertical assembly. It is a very versatile system which perfectly suits any architectural layout and offers the possibility to easily cover curving sections. The **STB-T-REM** system therefore complies with all the requirements to be employed in the most demanding architectural claddings.

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 profiles T as uprights.

The **STB-T-REM** system can be mounted on a unidirectional or bidirectional substructure. With a unidirectional substructure, the horizontal joint remains open. In the case of the bidirectional substructure, horizontal struts are attached to the uprights using **spacers angular** made of 6063 T5, or to the vertical face using spacers L.

This substructure with vertical and / or horizontal T profiles support the STAC**BOND**® composite panel sheets which are riveted at their edges.

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-REM** system complies with all major international certifications.

ETA-ETE: 15/0655 Nº 553P/16 ITB – KOT 2017/0043

SPACERS L

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.

PROFILES T

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.

HORIZONTAL PROFILES T

3. Horizontal cross-struts (optional). These profiles are mechanically fixed to the vertical substructure using the **spacers angular**, or to the base wall using spacers L. The possibility of creating a bidirectional substructure allows the system to adapt to the requirements of the facade.

ATTACHING STACBOND COMPOSITE PANEL

4. Attaching STACBOND®** composite panel.** Once the substructure is in place, the **STAC**BOND®** panels are attached to it using rivets. Attention should be paid to the condition and type of rivet to ensure correct dilation of the panels.

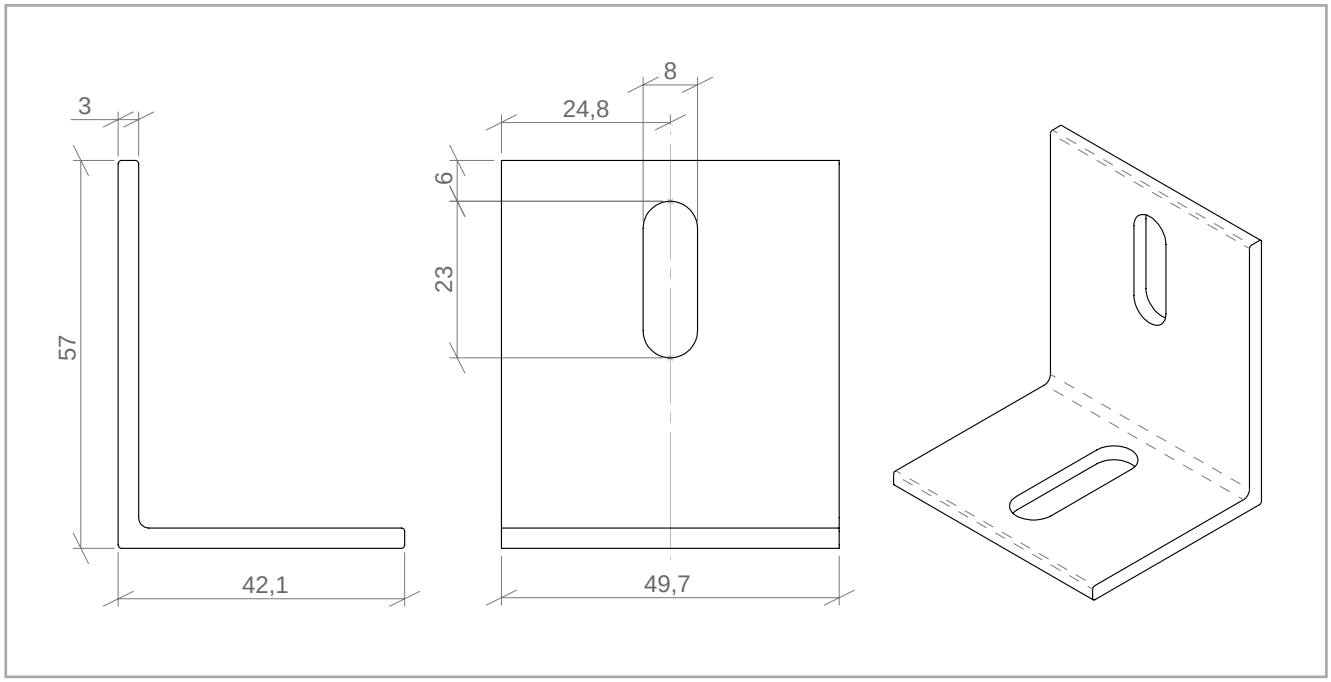
SPACER ANGULAR

Part made of extruded 6063 T5 aluminium alloy profile (3 mm) with holes for fixing to the upright and cross-strut profiles T.

This accessory allows profiles T to be attached horizontally to the vertical substructure, reducing the number of fixings to the base wall.

Fixing of these spacers is done using ø 4.8 mm blind rivets or ø 4.8 mm self-tapping screws. These coupling parts are compatible with possible dilation of the substructure.

REFERENCE	DESCRIPTION	UNITS/BOX
19.021	SPACER ANGULAR	100



Measurements in mm

DILATION OF THE PANEL

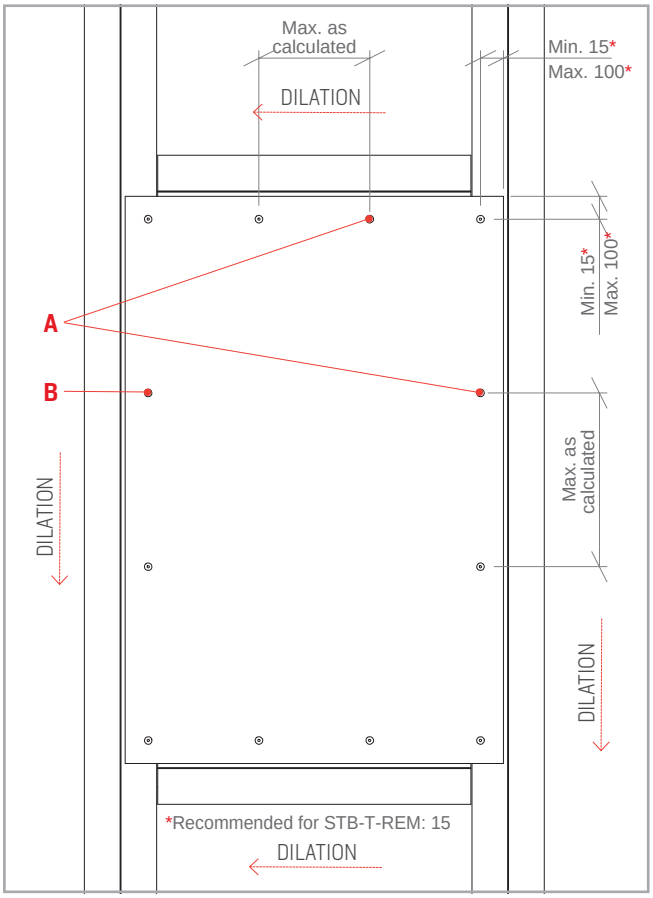
The diagram shows the layout and max. distance of the holes in the **STACBOND**® composite panel.

The panels are set in place by drilling and inserting the corresponding rivet, respecting the difference between the diameter of the drill and the shank of the rivet and also the distances between rivets and the edge of the panel.

To allow movement of the panel and to avoid problems from dilation, it is important to centre the drill holes on the substructure. This allows equal dilation in all directions and does not limit movement. We recommend the use of **centring gauges** to ensure correct hole placement and fixing of rivets.

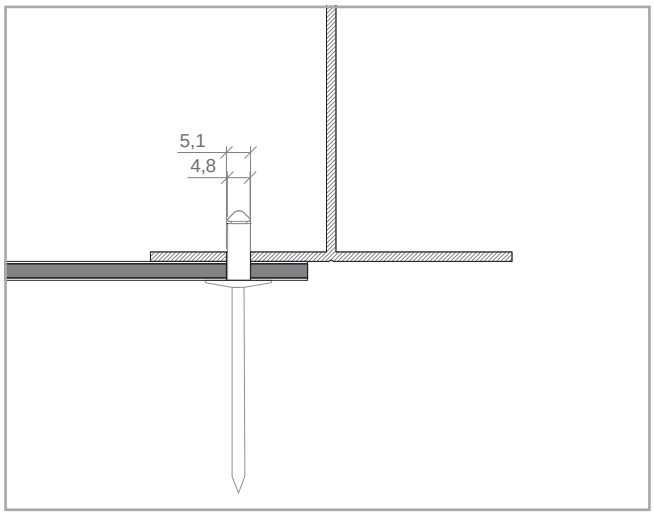
Furthermore, to allow movement in the floating fixing points, it is important to control the rivet clinch strength. We recommend the use of a **spacing nosepiece** which leaves a 0.2 mm gap between the sheet and the fixing, avoiding immobilising fixing points which should be floating.

Rivets and screws specified by **STAC**® should be used.



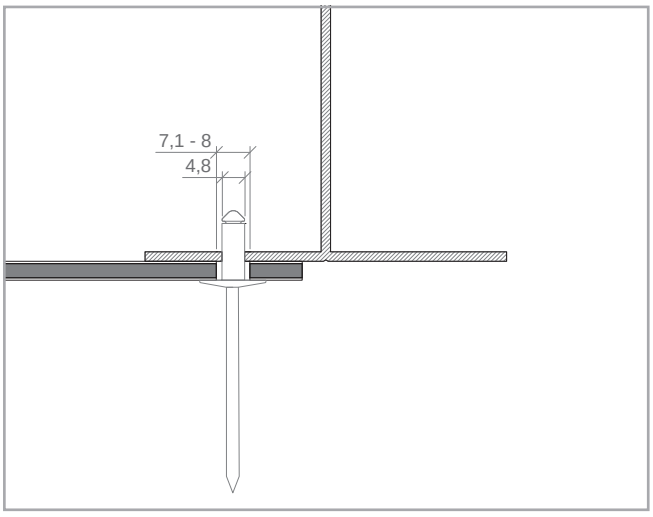
Note: other rivets and screws may be used providing that their mechanical characteristics are equal or greater than those specified by **STAC**®.

A. FIXED ANCHORING POINTS



The 5.1 mm hole drilled in the **STACBOND**® composite panel defines the origin of the panel's dilation.

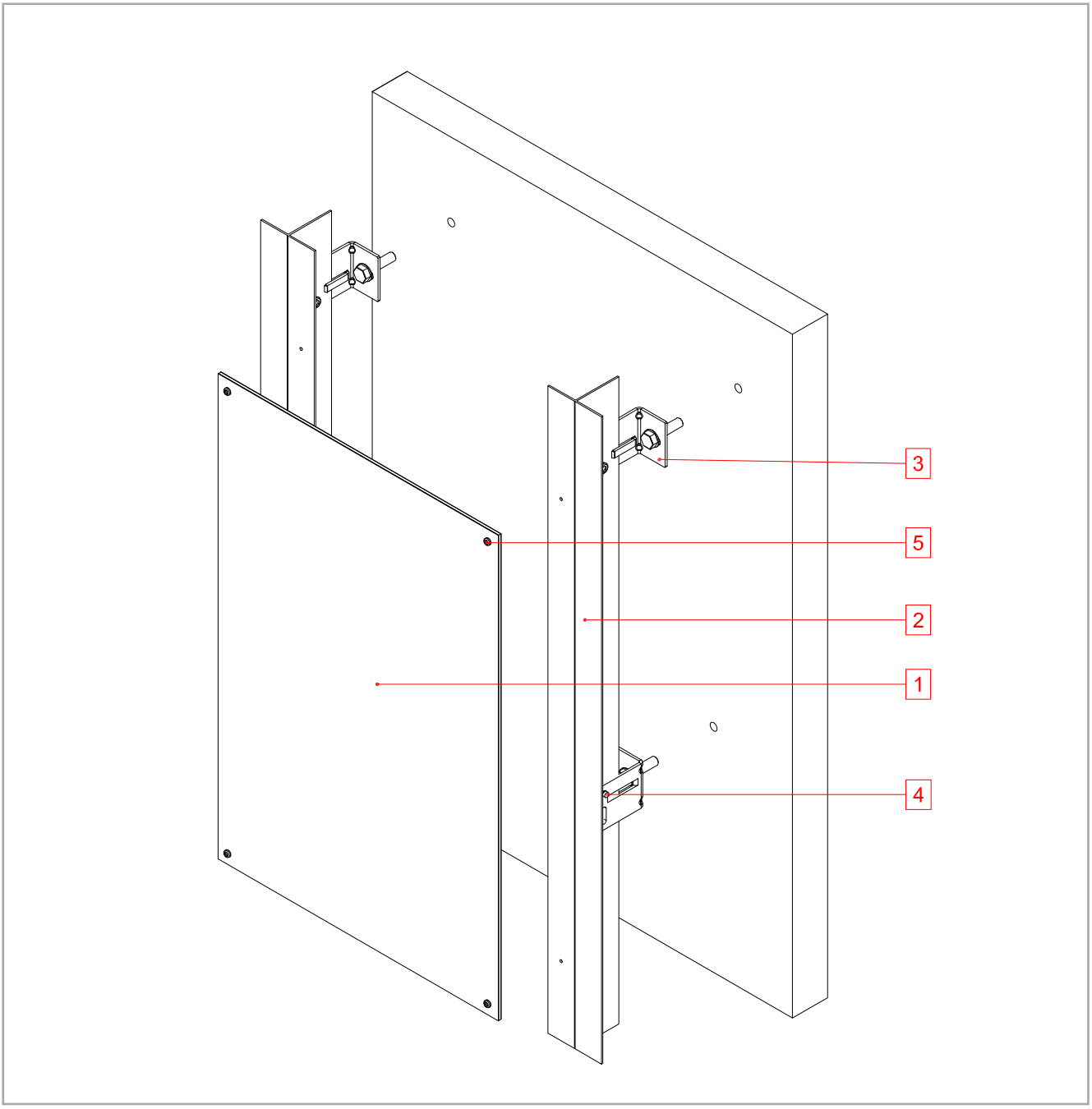
B. MOBILE ANCHORING POINTS



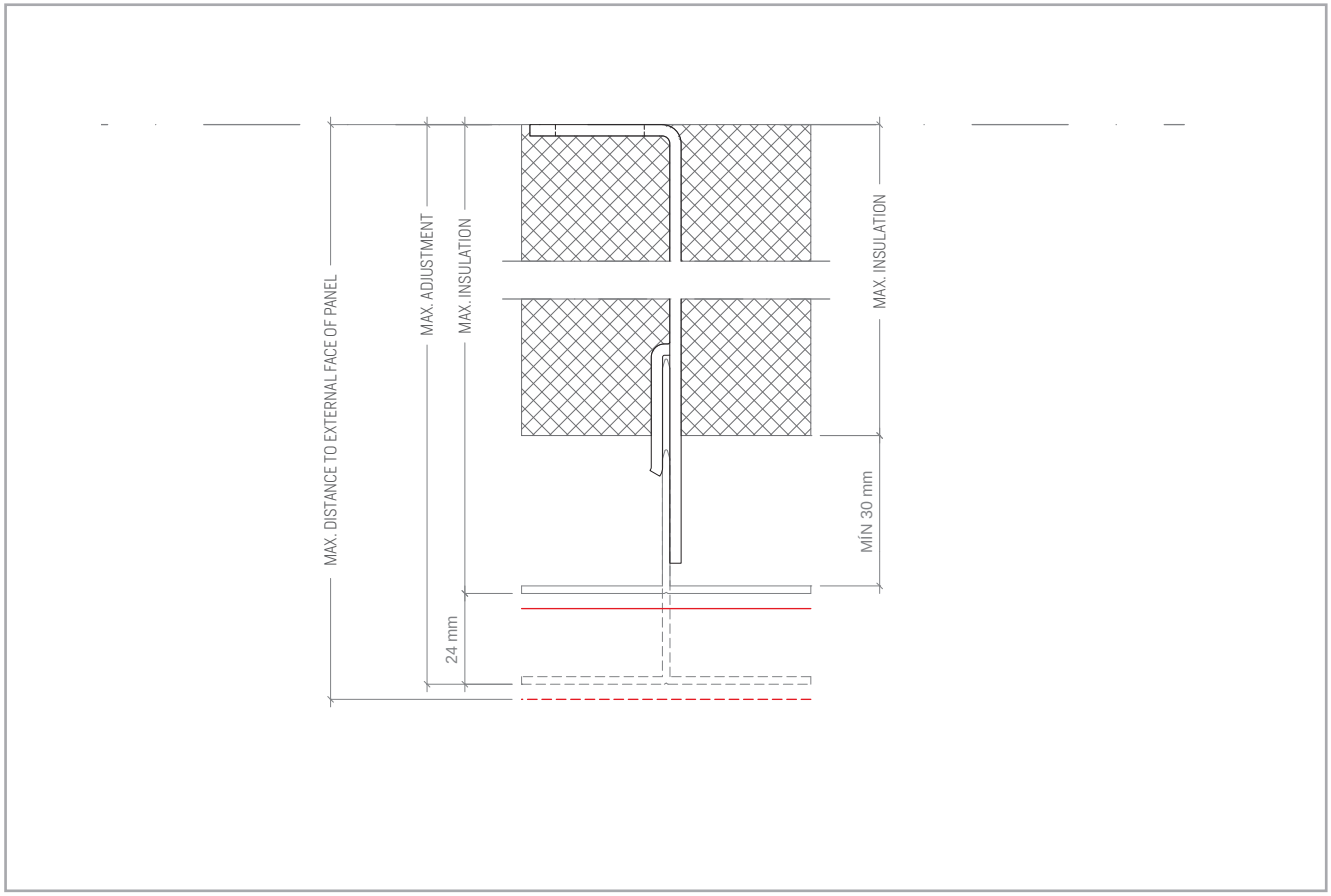
The larger diameter hole drilled in the **STACBOND**® composite panel allows dilation to be absorbed.

Measurements in mm

STB-T-REM SYSTEM
INSTALLATION DIAGRAM



Nº	NAME
1	STAC**BOND**® composite panel
2	Profile T
3	Spacer L
4	Self-tapping screw
5	Blind rivet



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	80	104	40
05.19.044	SPACER L 92 ST-1-55	104	128	80
05.19.051	SPACER L 116 ST-1-55	128	152	100
05.19.052	SPACER L 140 ST-1-55	152	176	120
05.19.053	SPACER L 164 ST-1-55	176	200	140
05.19.054	SPACER L 188 ST-1-55	200	224	160
05.19.055	SPACER L 212 ST-1-55	224	248	200
05.19.056	SPACER L 236 ST-1-55	248	272	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	80	104	40
05.19.045	SPACER L 92 ST-2-120	104	128	80

STB-T-REM SYSTEM
ACCESSORIES

PROFILES

REF.	PART	PAGE
05.19.043	PROFILE T	106

FASTENING ACCESSORIES

REF.	PART	PAGE
STB-FIJA-201	RIVETER NOSEPIECE (RIVETS SSO-D15)	112
STB-FIJA-202	RIVETER NOSEPIECE (RIVETS AP)	
STB-FIJA-203	DUAL DIA. DRILL BIT (HSS-7,0/5,1x74)	
STB-FIJA-204	DEPTH LOCATOR 16x18	
STB-FIJA-205	CENTRING GAUGE (DG-146x20-7.0)	
STB-FIJA-206	REPLACEMENT NOSE PIECE FOR CENTRING GAUGE ø 6.9 mm	
STB-FIJA-207	SPECIAL BIT FOR THE CENTRING GAUGE (HS-5.1x62/26)	
STB-FIJA-208	DRIVER BIT T20WW-25-HEX1/4"	
STB-FIJA-209	MANUAL CENTRING GAUGE FOR SCREWS SLA3	
STB-FIJA-210	SOCKET IRIUS G-00106.07	113
STB-T0100	SECURITY SCREW 4.8x19 INOX HEAD TORX SLA3/6-S-D12-4.8x19	
STB-R0100	BLIND RIVET ISO 15977 D5x12 CAB. 14 mm ALU/INOX AP14-S-5,.0x12	
STB-R0200	FACADE RIVET HEAD 15 mm INOX/INOX A4 5x14 SSO-D15-50140	

SPACERS

REF.	PART	PAGE
19.041	SPACER L 68 ST-1-55	109
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	
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
19.021	SPACER ANGULAR	110

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	115
05.19.066	INSULATING WEDGE FOR SPACERS **L * ST-2-120** WITH REF.: 05.19.042 / 05.19.045	
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

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