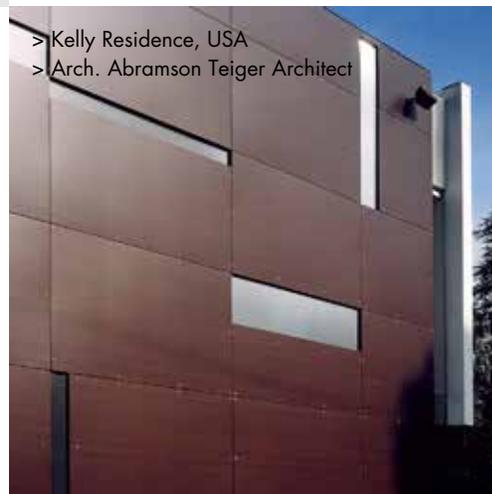
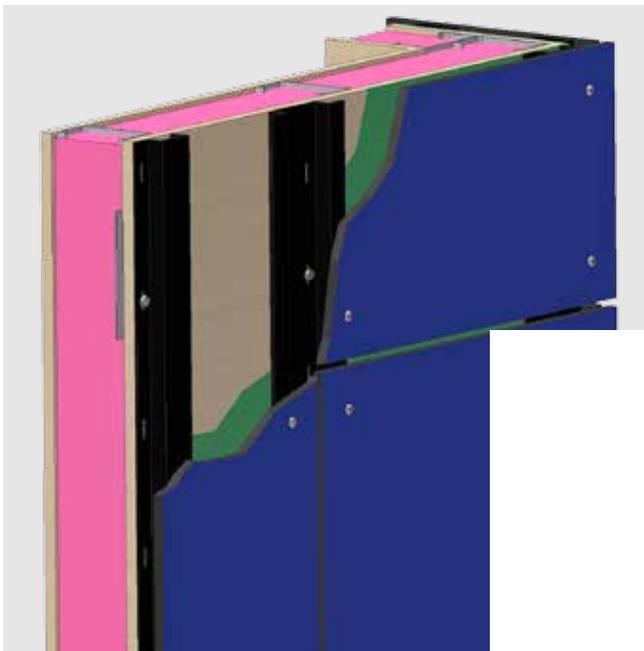


# TS1 10 VISIBLE (EXPOSED) FIXING WITH SCREWS ON AN ALUMINUM SUB-FRAME

This system offers a cost effective solution for installing Trespa® panels in a large variety of panel dimensions.

Trespa® Meteon® panels with a minimum thickness of 5/16 inch\* (8 mm) may be fixed onto an aluminum sub-frame. This sub-frame must consist of vertical extrusions of sufficient strength. Fasteners can be finished to match the panel (available in a wide range of Trespa® colors through third parties).



This document is intended to provide general recommendations only. Trespa provides these guidelines and all testing, code and design data for informational purposes only and strongly advises that the customer, project owner and architect seek independent advice from a certified construction professional and/or engineer regarding application and installation as well as compliance with design requirements, applicable codes, laws and regulations, and test standards. Please check your local codes and applicable design requirements for proper use.

\* Note that due to conversion, the value provided is approximate.

# OVERVIEW OF AVAILABLE CERTIFICATES AND TEST REPORTS

To consult the full details of available certificates please visit [www.trespa.info/meteon/certificates](http://www.trespa.info/meteon/certificates)

For TNA systems that meet the performance criteria of the NFPA 285 or ULC S134 multistory fire test standard, refer to design details indicated with a “285” or “134.”

## GENERAL INSTALLATION DETAILS

### Cavity depth and ventilation (Free air cavity)

The free air cavity depth between the backside of the panel material and the face of the weather resistive barrier is 1 inch (25 mm\*). This free air cavity allows for ambient air to flow through from the ventilation inlets and outlets. Ventilation perforations must allow for a minimum opening of 2.36 square inches per linear foot\* (50 square cm per linear meter) over the whole façade. Cavity depth as well as ventilation inlets and outlets must be in accordance with applicable building standards, regulations and certificates.

### Sub-frame

Trespa® Meteon® panels must be installed on a sub-frame, comprised of aluminum extrusions, of sufficient strength and permanent durability. Quality and/or treatment of the sub-frame must be in accordance with applicable building standards, regulations and certificates.

### Fixing detail

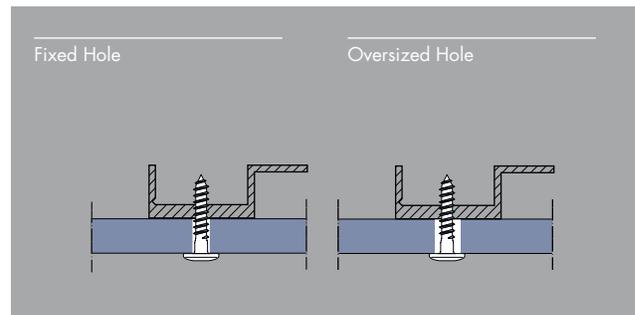
Trespa® Meteon® panels with a minimum thickness of 5/16 inch\* (8 mm) may be fixed onto an aluminum sub-frame with fasteners (available in a wide range of Trespa® colors through third parties). Fasteners connecting the panels to the sub-frame must be #12-11 stainless steel screws and are typically 1 inch (25 mm\*) in length.

To retain panel position, each panel must have one fixed point in the center of the panel.

Diameter of panel fastener holes:

- 0.216 inch\* (5.5 mm) for fixed holes
- 0.334 inch\* (8.5 mm) for oversized holes

Screws should be centered in the holes and not over tightened.



\* Note that due to conversion, the value provided is approximate.

# OVERVIEW OF TECHNICAL INSTALLATION DETAILS

AutoCAD drawings for TS110 are available at [www.trespa.info/meteon/fixingsystems](http://www.trespa.info/meteon/fixingsystems)

Trespa® panels	
Panel color/decor	Uni colors, Metallics, Wood Decors, Naturals
Panel thickness	5/16 inch* (8 mm), 3/8 inch* (10 mm), 1/2 inch* (13 mm)
Non-Trespa components/geometry to cladding	
Free air cavity (back face of panel to the weather resistive barrier)	1 inch (25 mm*)
Aluminum profiles	(as required per structural design)
Weather resistive barrier	Undefined

## Technical installation details

### Panel thickness

Panel thickness	inch*	mm
	5/16	8
	3/8	10
	1/2	13

### Maximum panel dimension

Max. panel dimensions	inch*	mm
	120 x 72	3050 x 1860

### Joint width

Joint width	inch*	mm
	3/8	10

Based on applicable building standards, regulations or certificates, wider joints may be permissible.

### Edge clearance

Edge clearance inch* (mm)
Minimum 3/4 inch* (20 mm) and maximum 10 x panel thickness, counted from the center of the first fixing

\* Note that due to conversion, the value provided is approximate.

## Recommended maximum fixing distances

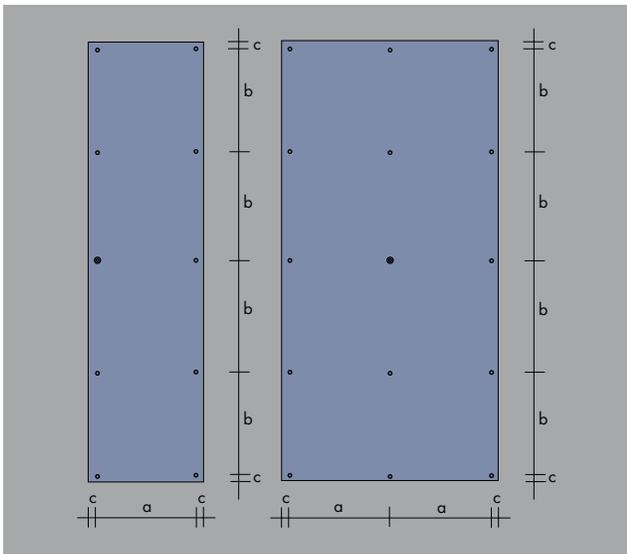
Maximum fixing distances <sup>A</sup>	Panel Thickness for Satin / Rock / Matt						Panel Thickness for Gloss <sup>B</sup>			
	inch*	mm	inch*	mm	inch*	mm	inch*	mm	inch*	mm
	5/16	8	3/8	10	1/2	13	3/8	10	1/2	13
2 fasteners in one direction	24	600	29	750	38	950	21	550	29	750
3 or more fasteners in one direction	29	750	35	900	48	1200	27	700	35	900

<sup>A</sup> The maximum permitted fixing distances shown have been designed with a maximum (wind) load of 20 pounds per square foot (psf) and a maximum deflection criteria of L/175.

<sup>B</sup> Based on the surface properties of Gloss panels, fixing distances are reduced.

Fixing distances must be calculated in accordance with applicable local standards, regulations and certificates and should be verified by a structural engineer.

For more information about deflection and wind loads, please visit [www.trespa.info/meteon/fixingsystems](http://www.trespa.info/meteon/fixingsystems)



a = horizontal fixing distance

b = vertical fixing distance

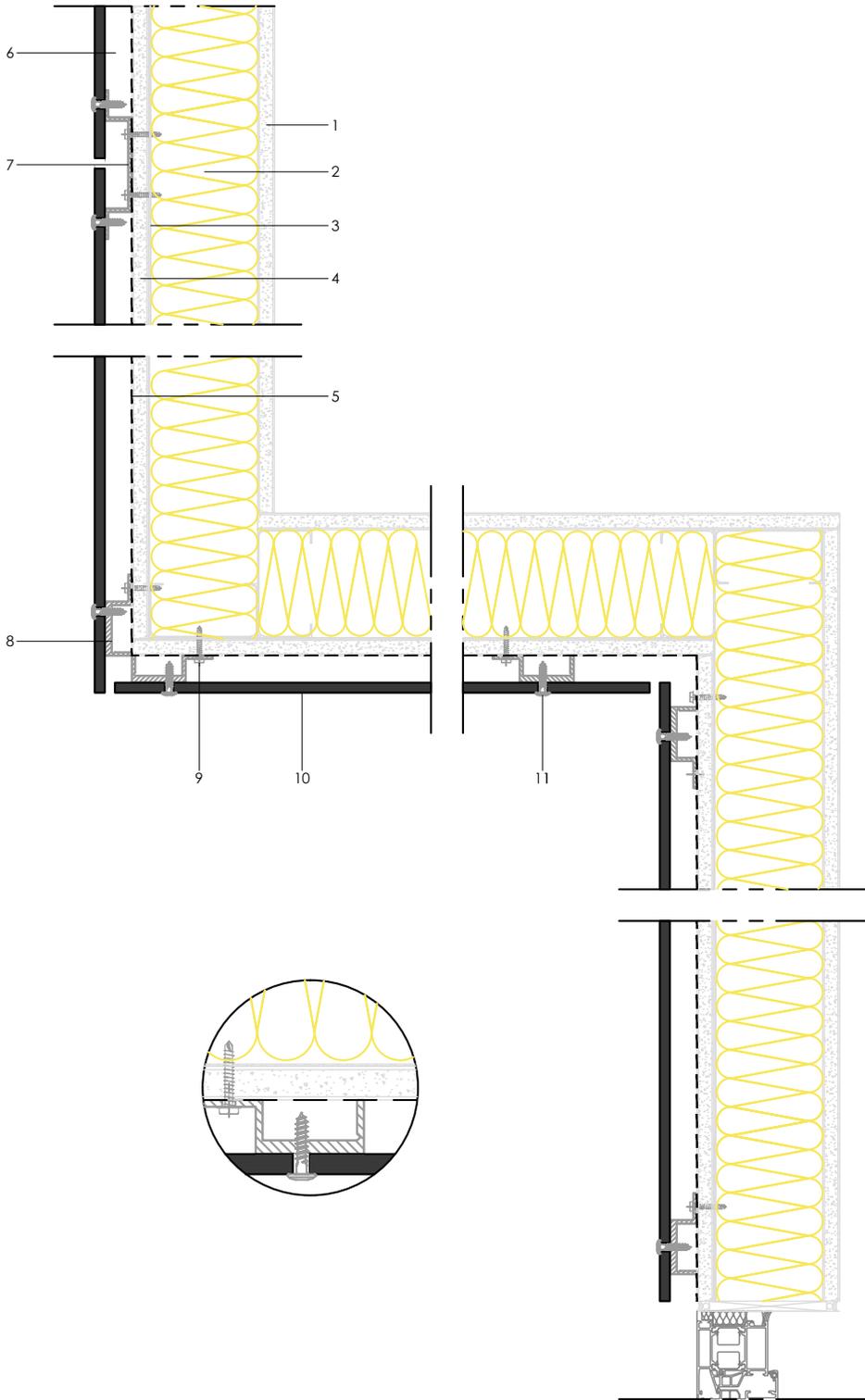
c = edge clearance

● = fixed point in panel centre

○ = sliding point

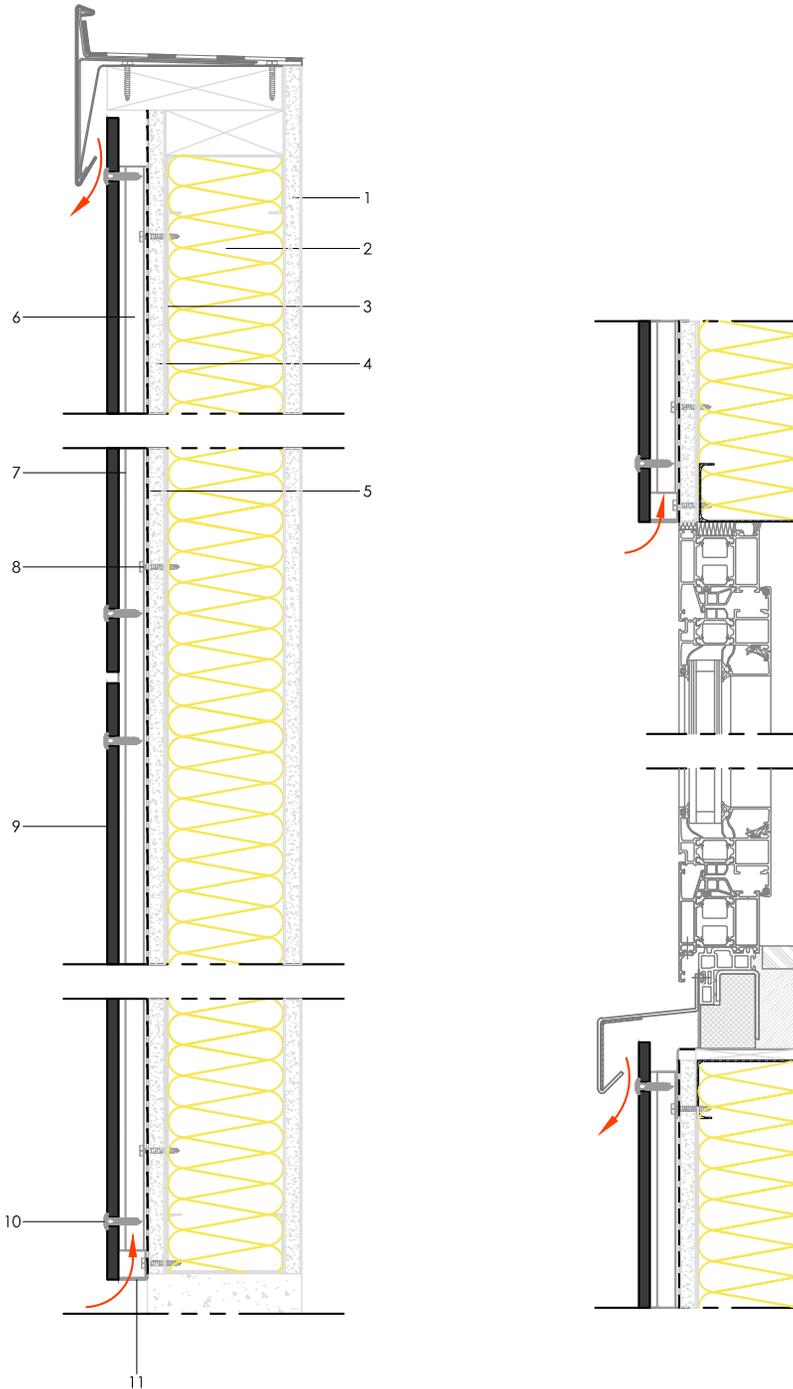
\* Note that due to conversion, the value provided is approximate.

**TS110**  
**Horizontal cross-section**



- 1. Interior sheathing\*\*
  - 2. Thermal insulation\*\*
  - 3. Steel stud\*\* / backing plate\*\*
  - 4. Exterior sheathing\*\*
  - 5. Weather barrier (vapor permeable)\*\*
  - 6. Ventilated cavity\*\*
  - 7. Hat channel\*\*
  - 8. J-channel\*\*
  - 9. Channel anchor\*\*
  - 10. Trespa® Meteoron® panel
  - 11. Panel fastener\*\*
- \*\* not by Trespa

**TS110**  
**Vertical cross-section**



1. Interior sheathing\*\*
  2. Thermal insulation\*\*
  3. Steel stud\*\* / backing plate\*\*
  4. Exterior sheathing\*\*
  5. Weather barrier (vapor permeable)\*\*
  6. Ventilated cavity\*\*
  7. J-channel or Hat channel\*\*
  8. Channel anchor\*\*
  9. Trespa® Meteon® panel
  10. Panel fastener\*\*
  11. Vent screen\*\*
- \*\* not by Trespa



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