EiSYS-AP /-H

Façade/adjusting screw

What can they be used for?

- For use with suspended façades
- For rear-ventilated façades if the outer wall is designed with timber formwork, fibre cement boards or other façade elements

Properties

- This screw is fastened to the building wall with a plug
- The freely rotating threaded sleeve at the top of the screw allows the façade's substructure to be aligned parallel to the building wall

Advantages

- Cost savings and reduced assembly times
- High loads can be transmitted through the framework screw connections even in the case of larger distances from the building wall
- Full design freedom is maintained for the façade

EiSYS-AP

EiSYS dowel

EiSYS-AP
Façade profile

EiSYS-AP

Façade/adjusting screw for aluminium

Art. no.	Dimensions [mm]	Insulation thickness [mm]	PU
946214	7,0 x 185	60	50
946215	7,0 x 205	80	50
946216	7,0 x 225	100	50
946217	7,0 x 245	120	50
946218	7,0 x 265	140	50
946219	7,0 x 285	160	50
946220	7,0 x 305	180	50
946221	7,0 x 325	200	50
946222	7,0 x 345	220	50
946223	7,0 x 365	240	50
946224	7,0 x 385	260	50
946225	7,0 x 405	280	50
946226	7,0 x 425	300	50

Note: Table for selecting EiSYS-AP screws with the façade profile 102 x 50 x 2 mm

EiSYS dowels

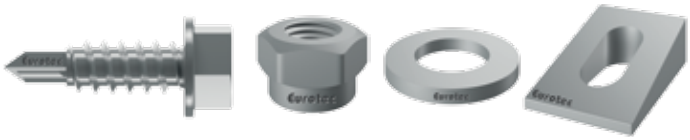
EiSYS-AP and - H

Art. no.	Dimensions [mm]	PU
945405	10,0 x 80	50

EiSYS-AP

Drilling screw, Nut, Washer, Taper washer

On request



EiSYS-AP façade profile

Art. no.	Dimensions [mm]	PU
On request	50 x 102 x 3000	1

EiSYS-AP L-Profil

Art. no.	Dimensions [mm]	PU
On request	35 x 35 x 2 x 6000	1

EiSYS-H insertion tool

Art. no.	Dimensions	Drive	PU
945416	10 x 100	Internal hex - SW5,4 External hex - SW10	1

EiSYS-H

Façade/adjusting screw for timber

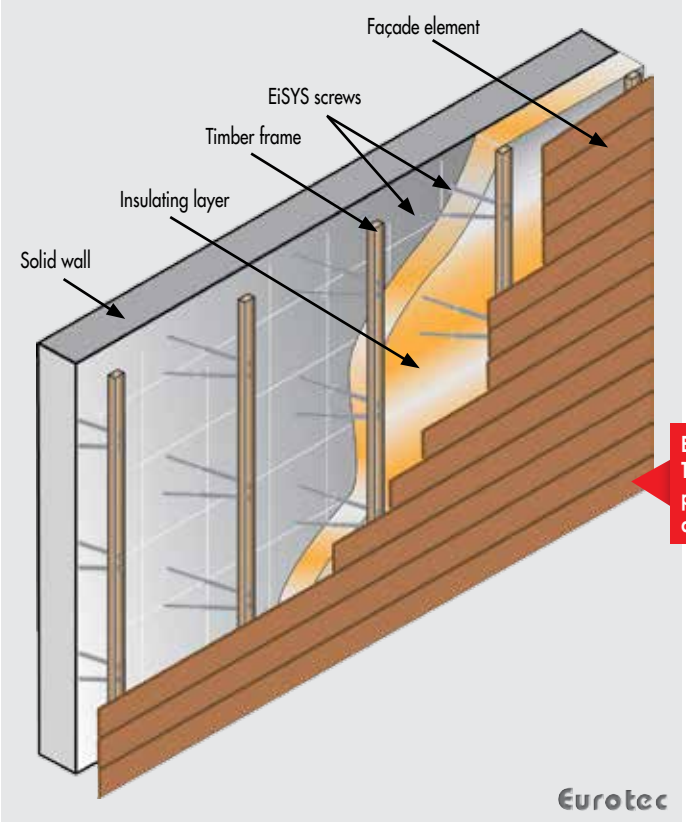
Stainless Steel

- A4 stainless steel

Art. no.	Dimensions [mm]	For insulation thicknesses up to	PU
946080	7,0 x 198	60 mm	50
946081	7,0 x 218	80 mm	50
946082	7,0 x 238	100 mm	50
946083	7,0 x 258	120 mm	50
946084	7,0 x 278	140 mm	50
946085	7,0 x 298	160 mm	50
946086	7,0 x 318	180 mm	50
946087	7,0 x 338	200 mm	50
946088	7,0 x 358	220 mm	50
946089	7,0 x 378	240 mm	50
946090	7,0 x 398	260 mm	50
946091	7,0 x 418	280 mm	50
946092	7,0 x 438	300 mm	50

EiSYS-H insertion tool

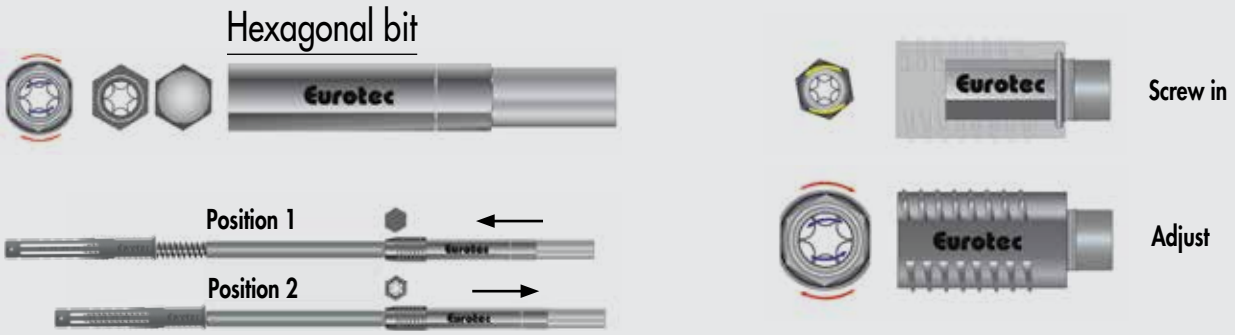
Art. no.	Dimensions [mm]	Drive	PU
946096	70 x 14	SW12 / TX30	1



Example application:
The V-shaped arrangement of the EiSYS-2 screw pair achieves optimum stability and load capacity of the façade construction.

EiSYS-H Façade/adjusting screw for timber

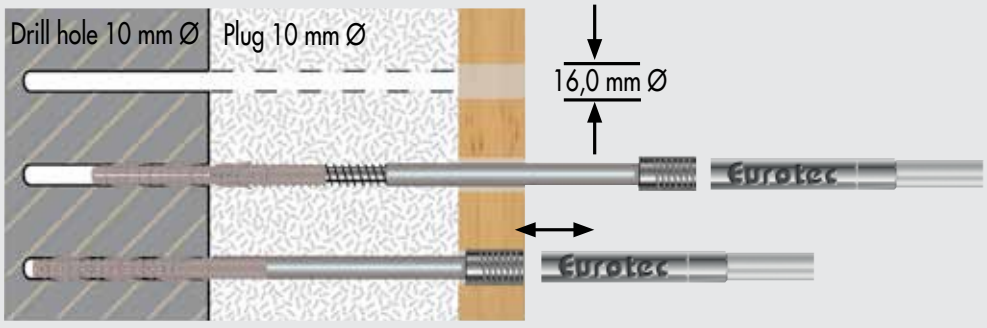
This screw is used to fasten façades in place. Insulation thicknesses of 80 – 280 mm can be handled easily with the EiSYS-H screw from Eurotec.

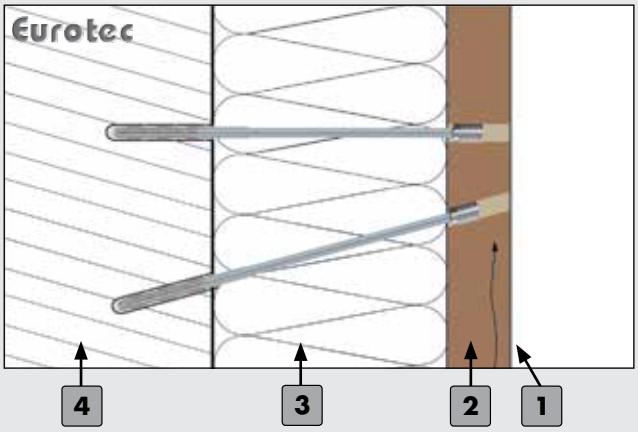


The EiSYS-2 screw is fitted with a freely rotating adjustment sleeve/head that allows the space between the brickwork and the substructure to be tailored to your needs. A hexagonal bit is supplied as an accessory. This is used to screw the screw into the subsurface, as well as to adjust the substructure with the adjustment head.

This is how it's done!

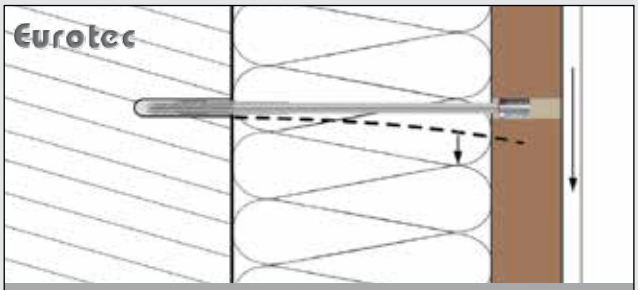
The principle is as ingenious as it is simple. Once the insulation is attached to the exterior wall, the counter batten is pilot-drilled to a diameter of 13 mm in accordance with the system. A hole of 10 mm diameter is then drilled within this hole through the insulation and into the subsurface to create the hole for the plug. The plug is attached to the adjusting screw and the two are then inserted into the prepared drill hole through the counter batten and the insulation. The EiSYS-2 façade/adjusting screw is screwed in completely in position 1 using the hexagonal bit until the adjustment head also lies within the counter batten. Now, the screw is simply pulled out to position 2 using the hexagonal bit and the spacing between the brickwork and the counter batten is adjusted.



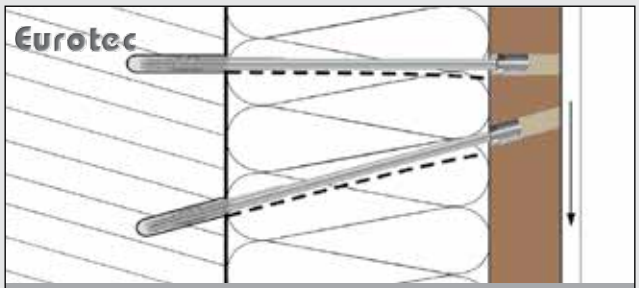


Example of a rear-ventilated façade (EiSYS-H system diagram)

1. Façade element
2. Timber frame (mind. 40 x 60 mm²)
3. Insulating layer
4. Brickwork (EiSYS fixing depth = 90 mm)

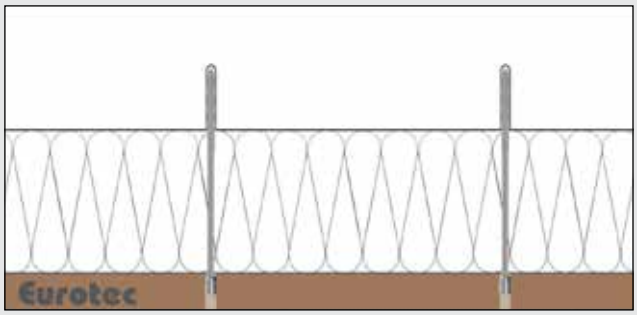


A single screw bends relatively easily under loading (F)



A V-shaped screw pair can absorb higher loads

To increase the rigidity of the EiSYS-H system, the adjusting screws are installed in pairs and in a V shape. This creates a framework screw connection. The framework principle consists of creating a large number of rigid triangles (see diagram) from multiple relatively pliable screws installed perpendicular to the wall.
For the same load, these triangles exhibit a much lower deflection than screws that are simply screwed in perpendicular to the wall.



Example of a suspended ceiling

The Eisys-H's adjustment function can, of course, also be used in other applications, e. g. for a suspended ceiling.