



### **DESCRIPTION**

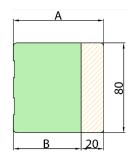
Warmotech **PRO system** are pre-wall framing system for window installation in the thermal insulation layer, which ensures the secure connection of the window to the wall.

The profiles are made of a solid layer of Warmotech material for durability, dimensional stability, compressive strength and soundproofing characteristics. Additional layer of extruded polystyrene foam (XPS) on the outside (20 mm) provides additional thermal insulation properties.

#### SCOPE OF APPLICATION

Warmotech **PRO** profiles creates an additional mounting frame for installing windows in the insulation layer. This method of installing windows allows to reduce heat loss through the windows. Due to the mass of the profiles, better acoustic properties are achieved. After installing the windows in the **PRO** systems, you will have smaller opening edges outside (which will increase the amount of incoming light) and a larger area inside at the windowsills. Profiles are sold in units, standard unit length – 1215, 1235 or 2750 mm.

PRO 70 Height (A) 70 mm, Height (B) 50 mm
PRO 80 Height (A) 80 mm, Height (B) 60 mm
PRO 90 Height (A) 90 mm, Height (B) 70 mm
PRO 100 Height (A) 100 mm, Height (B) 80 mm



## HEAT TRANSFER COEFFICIENT, U VALUE

PRO 70 (70 mm)	0,88 W/m <sup>2</sup> K
PRO 80 (80 mm)	0,80 W/m <sup>2</sup> K
PRO 90 (90 mm)	0,73 W/m <sup>2</sup> K
PRO 100 (100 mm)	0,68 W/m <sup>2</sup> K

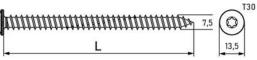
#### PRODUCT COLOR AND STORAGE

The colors of Warmotech panels and extruded polystyrene foam (XPS) depend on the suppliers of the different materials. The color of the product has no effect on the flammability, mechanical and other declared characteristics of the materials in the profiles. With prolonged exposure to direct sunlight, the profiles acquire a yellowish tint. It is recommended to protect the profiles from long-term, direct sunlight.

#### INSTALLATION ACCESSORIES

Warmotech PRO system consist of SFS Intec screws for window & door installation and Warmotech elastic hybrid sealant for joining of construction elements with mechanical loads.

#### SFS Intec FB-FK-T30



Declaration of Conformity 190126

## Warmotech elastic hybrid adhesive sealant

Tack free time 5 minutes (at 23 °C; 50% R.H.)

Colour grey

Curing rate approx. 3 mm/24 hr.

Movement capability  $\pm 20 \%$ Tensile strength 2.00 MpaElongation at break 200 %

Application temperature Between +5°C to +40°C

Hybrid sealant & adhesive according to

EN 15651-1: F-EXT-INT-CC

# DIMENSIONS

Warmotech panel + XPS core

Width 80 ± 2mm

**Length** 1215/ 1235 or 2750 mm ± 5 mm

Height 70/80/90/100 mm

# TECHNICAL CHARACTERISTICS (WARMOTECH layer)

Reaction to fireD-S3, d0Bending strength≥ 4.7 MPaCompressive strength≥ 7.1 MPa

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term, partial immersion)

European Technical Assessment ETA-22/0454



# TECHNICAL CHARACTERISTICS (XPS layer)

Reaction to fire Euroclass E

Water vapour diffusion

 $\begin{tabular}{llll} resistance factor & 150 $\mu$ \\ Compressive strength & $\geq 700 $kPa$ \\ Density & $> 45 $kg/m3$ \\ Thermal conductivity & 0,035 $W/(m\cdot K)$ \\ Water absorption & $WL(T) \leq 0,7 \%$ \\ \end{tabular}$ 

(by total immersion)

Extruded polystyrene foam according to EN 13164

## INSTALLATION LOADS AT ONE POINT

The specified loads also apply to supports of a different type from those shown in the diagram, including window blocks, metal corners and other elements that are based on the full area of the profile, are wider than or equal to the profile and are not narrower than 30 mm. The maximum load values are the same for all PRO TYPE 2 systems.

## FOR ALL PRO SYSTEMS

Maximum load at support point, **0.5 mm** displacement:

200 kg.

Maximum load at support point, 1.0 mm displacement:

240 kg.

Maximum load at support point, 1.5 mm displacement:

300 kg.

Maximum load at support point, 2.0 mm displacement:

330 kg.

