

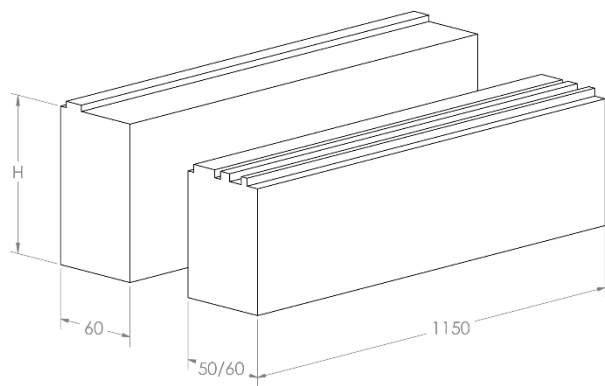
## DESCRIPTION

Window assembly profiles Warmotech **PA/ PA FR**.

The profile is rigid – made of a solid one-piece layer of Warmotech material.

## SCOPE OF APPLICATION

Warmotech **PA profiles** are available in various dimensions. Used for the installation of wooden windows or extremely heavy structures. Also used in aluminum constructions, concrete industry and other fields. **PA FR profiles** are used for lifting the window to the required height or floor level. The top part of profile is routed according to window profiles. This tight connection ensures good thermal insulation and tightness characteristics. Profiles are sold in units, standard unit length – 1150 mm (**PA FR**) or 1150/ 2750 mm (**PA**).



## HEAT TRANSFER COEFFICIENT, U VALUE

PA/ PA FR 50 (50 mm)	1,76 W/m <sup>2</sup> K
PA/ PA FR 60 (60 mm)	1,47 W/m <sup>2</sup> K
PA/ PA FR 70 (70 mm)	1,26 W/m <sup>2</sup> K

## PRODUCT COLOR AND STORAGE

The color of Warmotech **PA/ PA FR** profiles depend on the origins of the recycled polyurethane. However, it has no effect on the flammability, mechanical strength, thermal conductivity and other declared characteristics. With prolonged exposure to direct sunlight, the profiles acquire a yellowish tint. It is recommended to protect the profiles from long-term, direct sunlight.

## DIMENSIONS

### PA profile

Standard thickness	10 – 100 mm ± 2mm
Standard width	10 – 500 mm ± 2mm
Length	1150 or 2750 mm ± 5 mm

### PA FR profile

Standard width	50, 60 or 70 mm ± 2mm
Standard height	10 – 500 mm ± 2mm
Length	1150 ± 5 mm

## TECHNICAL CHARACTERISTICS (WARMOTECH panel)

Reaction to fire	D-S3, d0
Bending strength	≥ 4.7 MPa
Compressive strength	≥ 7.1 MPa
Density	550 ± 10 % kg/m <sup>3</sup>
Thermal conductivity	0,088 W/(m·K)
Water absorption (by short term, partial immersion)	$W_p \leq 0,4 \text{ kg/m}^2$

*European Technical Assessment ETA-22/0454*

## 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.

### TYPE PA 50

### TYPE PA FR 50

Maximum load at support point, **0.25 mm** displacement:

A = 30 mm	190 kg.
A = 40 mm	220 kg.
A = 50 mm	350 kg.

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

A = 30 mm	400 kg.
A = 40 mm	500 kg.
A = 50 mm	600 kg.

### TYPE PA 60

#### TYPE PA FR 60

Maximum load at support point, **0.25 mm** displacement:

A = 30 mm 220 kg.

A = 40 mm 250 kg.

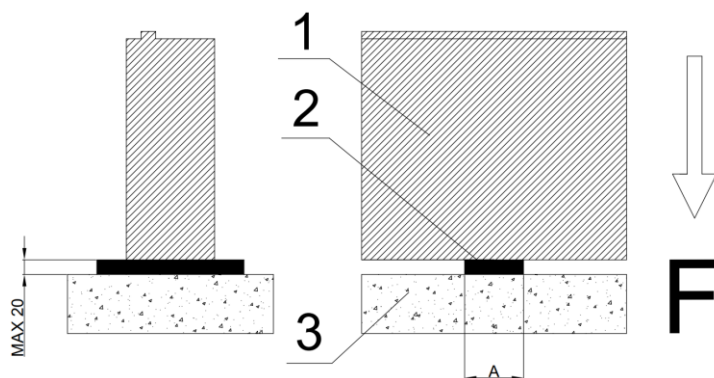
A = 50 mm 400 kg.

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

A = 30 mm 450 kg.

A = 40 mm 550 kg.

A = 50 mm 650 kg.



*1 - profile/ 2 - support/ 3 - basis*

### TYPE PA 70

#### TYPE PA FR 70

Maximum load at support point, **0.25 mm** displacement:

A = 30 mm 250 kg.

A = 40 mm 300 kg.

A = 50 mm 450 kg.

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

A = 30 mm 500 kg.

A = 40 mm 600 kg.

A = 50 mm 700 kg.

