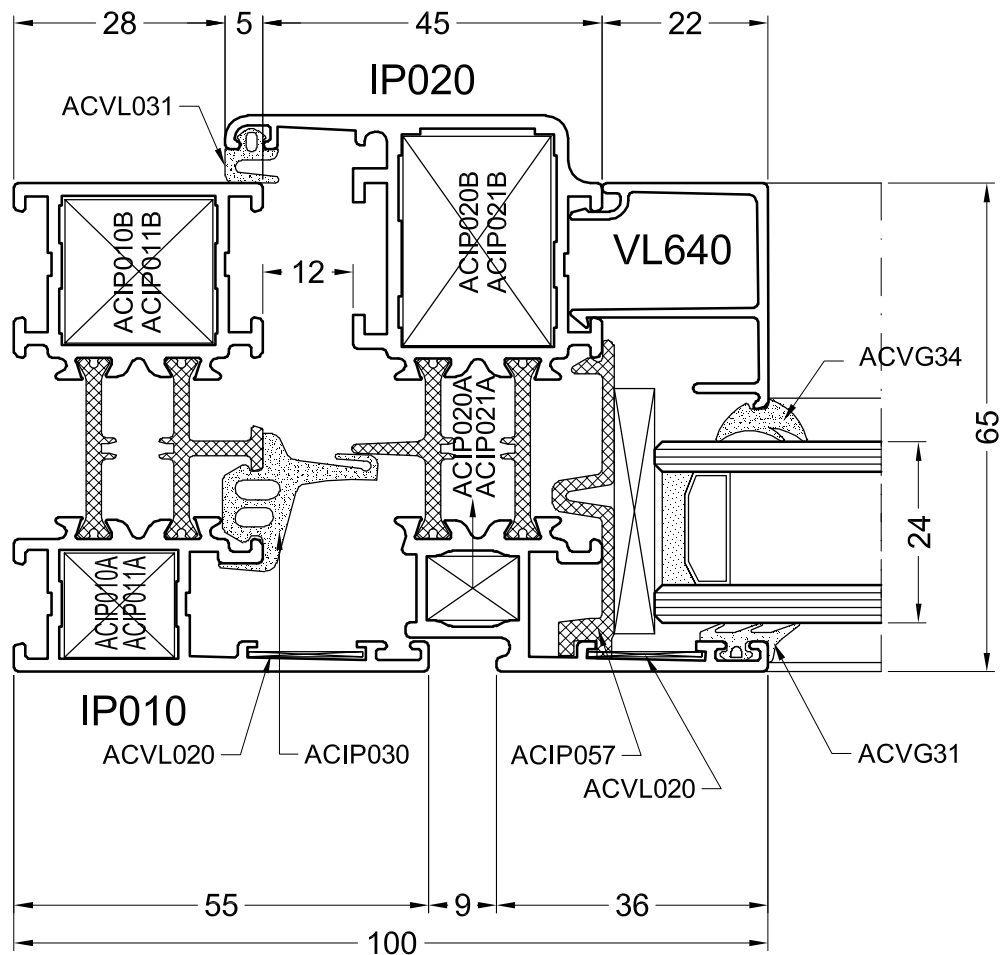


# Technical Card

IMPERIAL

IP



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multi-chamber system (depth 65mm) for windows and doors with thermal break

## Description

This series of high quality profiles with thermal break are applicable where the more severe standards for acoustic and thermal insulation are required. The profiles for this series are constructed of 2 hollow extrusions separated from one another by polyamide strips PA 6.6.25 reinforced with glass fibre. An additional radiation barrier in the form of a strip in the same material provides the 4-chamber system.

## Applications

### Windows:

Fixed frames for single or double glazing  
Single or double sash side-hung open in windows  
Tilt and turn windows  
Tilt in only windows  
Tilt and slide windows and doors with appropriate hardware  
Flush, single or double sash doors, open in  
Swing doors (double action)

### Doors:

Commercial doors  
Single or double sash  
Double action doors

## Materials

Aluminium: AlMgSi 0.5 Type 6060/6063 T5 in condition F22 (according to NBN P21-001 and DIN 1725).

Tolerance according to DIN 17618.

Sealings: E.P.D.M. according to DIN 7863, TV 110, NFP 85301, ISO 3994. Tested and approved according to an artificial ageing test of "Plexi glass" combined with vulcanised rubber.

Thermal break: polyamide strips PA 6.6.25% reinforced with glass fibre.

Radiation barrier: polyamide strips PA 6.6.25% reinforced with glass fibre.

## Finishing

Electrostatic Powder coating: according to the guidelines of A.P.A.-Qualicoat in most of the current RAL-colours. The composed profiles (with thermal break) can be coated with different inner and outer colours ("DUAL-Color").

Anodisation in satin or bronze colours with EWAA/EURAS-Qualinod qualitylabel.

Metallic Structure coating: the third generation and the best quality powder coating.

All coatings come with the normal 15 year MARINE guarantee and Qualicoat certificate.

## Thermal break

The profiles consist of 2 aluminium extrusions which are separated from one another by polyamide strips PA 6.6.25 reinforced with glass fibre. A gluing thread, rolled and pushed in together with the thermal break profile ensures a strong adhesion after melting and flowing, when the profiles are heated in the hardening furnace.

## Performance level

according to STS 52.0:

Resistance to wind:	PV3
Air transmission:	PA3
Watertightness	PEE

## Details

### Windows:

Built-in depth: outer frame 65 mm, sash 74 mm  
Glazing rebate: 22 mm  
Hardware rebate: according to the current European sizes (EURONUT)  
Sealings: with extruded E.P.D.M. rubbers  
Glazing: from 18 up to 51 mm  
k-value 2.6 W/m<sup>2</sup>K (Rahmenmateriaal-Gruppe 2.1)  
Various forms of hardware and finishing available  
Possibility to bend the profiles  
Rounded glass beads are available for a Soft-look  
Windows can be joined with variable couplings or standard fixed couplings (such as 90° and 135°) using profiles with thermal break  
Adapter profiles for roller shutters  
Brick frame profiles  
Window sill profiles in various depths available

### Doors:

Built-in depth: outer frame 65 mm, sash 65 mm  
Glazing rebate: 22 mm  
Sealings: with extruded E.P.D.M. rubbers  
Glazing: from 18 to 51 mm  
Various forms of hardware and finishing available  
Possibility to bend the profiles  
Rounded glass beads are available for a Soft-look  
Windows can be joined with variable couplings or standard fixed couplings (such as 90° and 135°) using profiles with thermal break