



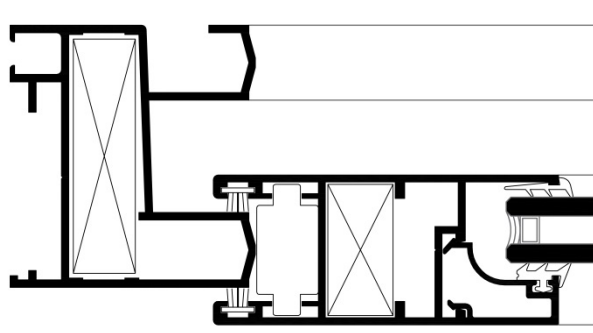
# DOMAL SLIDE 56

## INTRODUCTION

### Weight of profiles and gaskets:

in the catalogue, the theoretical weight of profiles and gaskets is reported, so the weight may vary according to dimensions and thickness tolerances as established by EN standards. (EN 12020/2 for profiles and UNI 9122 for gaskets).

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### Extrusion alloy:

profiles are extruded with alloy EN AW 6060- supplying state T5

### Profiles length:

the commercial length of profiles is mm. 6.500. In case of different lengths, please contact our sales office.

### Profiles dimensions:

theoretical dimensions are reported in the catalogue, and these may vary according to extrusion tolerances (EN 12020/2). This variation may result more evident in the cavities for the insertion of fittings and gaskets. The connections, too, may be subject to dimensions variations. In case of painted profiles, the small cavities, especially those for gaskets, may be sensibly reduced by the paint thickness.

### Cutting dimensions:

the cutting and assembling schemes are reported in the catalogue. The theoretical dimensions specified are the exact ones, however the roundings allowed by technique and equipment should be taken into consideration.

### Assembling:

It is advisable to produce a real-size sample when starting to work with this system or in case of big jobs, in order to check the assembling and the mechanical characteristics of accessories and fittings.

### Reference dimensions:

L and H dimensions refer to the hollow chambers of the profile, and generally they correspond to the references reported on the cutting machines.



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### **Schemes, sections and fastening to the wall:**

the schemes, sections and the fastening to the wall reported in the catalogue should not be considered as restrictive, but only as an example of the most frequent situations and of the related recommended solutions.

### **Tolerance of installation:**

between the internal part of the steel frame and the external part of the aluminum frame it is advisable to leave about 7 mm. space on each side (installation tolerance). Considering the 2 – 3 mm. projection of the round plate supporting the expanders for the fastening to the wall, a 5 –4 mm. space for possible vertical or horizontal imperfections is left on each side, thus allowing a plumb and on level installation of the window.

### **Windows dimensions:**

to calculate the windows dimensions it is necessary to take into account different factors: the profiles moment of inertia, the dimensions and weight of the glazing or of the panel, the dimensions of the movable parts, quality and capacity load of the accessories, the kind and number of fastenings to the wall, the installation conditions (height, exposure, wind, etc.) These factors can be estimated based on the practical know-how, on technical catalogues and descriptions and on UNCSAAL specifications.

The diagrams reported have been elaborated on the basis of the frontal moment of inertia of the profiles.

### **Painting:**

in order to limit the filiform corrosion phenomenon the following important rules should be respected: seal the cut parts, avoid the gathering of condensation inside the window, be very careful during installation.

Thermal-break profiles, if painted, need a thermal pre-treatment at 180° C (-0° +20°) for about 20-22 minutes. During the whole painting process the profiles need to be placed on adequate supports in order to keep their original straightness and not undergo deformations

All the data reported in the catalogue should be considered as a pure indication and are not binding for Sapa Building Systems S.p.A. Sapa Building Systems S.p.A. is entitled, at any moment, to make all the changes which are deemed as necessary. The profiles, accessories and gaskets reported in this catalogue are patented. What is reported in this catalogue, is exclusively owned by Sapa Building Systems S.p.A. and its whole or partial copy is forbidden by law, unless it is explicitly authorised. During the manufacturing and the installation of the windows it is advisable to follow and respect the Italian standards and specifications although these are not binding. For the windows manufacturing, we recommend to follow the construction techniques and applications reported in the present catalogue and to utilise the accessories and gaskets herein recommended. Sapa Building Systems is responsible for the sole replacement of those products of its which may prove to be defective.



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## TECHNICAL DESCRIPTION OF THE SYSTEM

<b>Extruded aluminum profiles – alloy:</b>	alloy EN AW 6060
<b>Supplying state:</b>	T 5
<b>Dimensions and thickness tolerance:</b>	EN 12020/2
<b>Air-water tightness:</b>	brush with central fin HI-FIN

Glazing installation:

- through glazing bead (available space from 9 to 26.5 mm.)
- direct, without glazing bead (available space from 10 to 26 mm.).

## BASIC DIMENSIONS:

<b>fixed frame 2 rails:</b>	56 mm.	<b>WINDOWS</b>
<b>fixed frame 1 rails:</b>	46 mm.	
<b>sash frame:</b>	32 mm.	

<b>fixed frame 2 rails:</b>	84 mm.	<b>DOORS</b>
<b>fixed frame 3 rails:</b>	124 mm.	
<b>sash frame:</b>	32 mm.	

Frames matching with Domal Stopper PG/ Domal Break PA 52

**Glazing seat height:** 20 mm. (net height)

**Wall overlapping of the fixed frame:** 24 mm

## USE:

Windows: the system allows for the construction of sliding windows with 2,3,4 or more sashes. Special profiles allow to combine this system with fixed parts (upper, lower or side frames) or with the casement windows of the Domal Stopper PG and Domal 40 systems.

Doors: the system allows for the construction of sliding doors with 2,3,4 or more sashes, moving on 1,2,3 rails.

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TEST PERFORMED BY ITC OF MILAN (ITALY) ON A 2 SASHES SLIDING WINDOW, DIMENSIONS 1,67 M. X 1,35 M.

**air permeability:** class A3

**water tightness:** class E2

**wind load resistance:** class V2

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