

PUR_e Casement - Open Out

Product Manual
Casement
2015


PUR

Introduction

The Company

Senior Architectural Systems are a group of companies based in the United Kingdom who operate through a network of regional Service Centres.

Its' operations include the main business of stockholding in both systemized and standard aluminium extrusions. Mill finish, anodised (natural and bronze), and powder coated sections are all available, along with all of the necessary accessories for manufacture. The incorporation of new or modified sections, system compatible, is carried out when required.

The emphasis is on service to our clients, with response speed being very much of the essence. Deliveries are made on dedicated vehicles in our own livery, into all areas of the country on a regular basis - collections can be easily arranged for direct release (ex. works) to our clients' instructions. Short notice collections can also be arranged in the event of the occasional, and inevitable 'emergency'.

The Product Range

Available from Senior Architectural Systems include:-

The PURe product range comprising: Casement, and Tilt Turn Open In.

Also available from Senior Architectural Systems include: -

Curtain Wall, Casements, Tilt Turn Open In, Reversible Overswing, Hor/Vert Pivot, Mid-Rise Commercial Windows, Patent Glazing, Sub Frame, Standard Angles and Rectangular Tubes, Residential Windows, Commercial Doors, Residential Doors, Patio Doors and Secondary Glazing.

Also available from Senior Hybrid Systems include: -

The HYBRID product range comprising: Casement, Tilt Turn Open In, Reversible Overswing, Residential Doors - Open In / Open Out, 44mm Door Slab, Lift and Slide Door, Folding Sliding Door, and a Curtain Wall system.

Quality Assurance

We are committed to the aims of ISO 9001 Quality Assurance.

In the event of questions or queries concerning the contents of this manual or any other product on offer from Senior Architectural Systems, please do not hesitate to contact your Regional Service Centre:

Senior Architectural Systems Head Office

01709 772600

Senior Architectural Systems Scotland

01506 407640

Senior Architectural Systems South

01633 277880

Senior Architectural Systems operate a policy of continuing development and reserve the right to amend and improve their products without notification. Every effort will however be made to ensure that up-dates are circulated to our clients for information as deemed necessary.

All items contained in this manual are subject to our normal terms and conditions, a copy of which is available on request. Whilst we make every effort to ensure the accuracy of the drawings and measurements contained in this manual, we neither warrant nor guarantee the accuracy and you should undertake your own measurements and not place any reliance on or act in consequence of the contents herein.

Scope

This specification covers the materials, sections and accessories generally available from stock through the Senior Architectural Systems group of companies. It illustrates typical recommendations for the fabrication of our PURe Casement window system. The sections and fittings described in this manual are not definitive or exclusive in application but show typical assemblies using standard materials and accessories.

Identical main line extrusions are used for both single and dual colour finishes.

These details are suitable for installations in both new buildings and re-furbishments.

Construction

PURe Casement window system is constructed using mitred and mechanical or crimped corners, with support chevrons and cleats. Integral transoms and mullions are fitted by scribing the ends and screw fixing into shear blocks secured to the outer frames.

A proprietary sealant to protect against water entry should be used on all metal-to-metal joints and cleat insertion points at assembly.

Vents are designed to be inserted directly into the outer frames using friction stays.

At all times good working practices should be employed.

Accessories

*All accessories shown in this manual are deemed to be both typical, and suitable for, the installations intended. They are generally standard items which carry with them the manufacturers guarantees and are components which are held in stock unless informed otherwise by * in this manual.*

Testing

The PURe Casement window system is tested in accordance with PAS24

Air Permeability	600Pa (class)
Water Tightness	600Pa
Wind Resistance	2400Pa

Separate figures are available for Thermal U-values depending on type of frame and glazing material

Materials

Extruded aluminium is Aluminium Alloy 6063.T6 to BS EN 755 part 9:2008.

Polyamide thermal barriers PA66 GF25

Anodising: i) Natural (Silver) anodised to BS3987, 1991. and ii) Anolok Bronze Colour 547 anodised to BS3987, 1991. Anodising is to a minimum of 25 microns (AA25).

Powder Coating is to BS EN 12206-1:2004.

Gasketry is manufactured in accordance with BS3734.

Glazing

Note: All Glazing should be carried out to the recommendations of BS6262.

IGU's from 28mm to 50mm may be installed into this window system subject to profile selection – see glazing tables.

Glazing is individually inserted into a fully rebated and prepared opening. Retained in position with beads, captive gaskets to the frame/vent rebates, with wedge gaskets (internal) to assist with security, or external when security is not an issue.

Site Installation

Site fixing of finished frames should take into account all applicable standards with regard to both the method employed and safe working practices.

Frame fixings should be suitable for the purpose given site conditions and materials into which the installation is to be made. If in doubt, please check with your fixings supplier regarding type and method to be used.

Size Limitations

Size limitations for each type of window vary. The following schedule is an indication of the PURe Casement – Open out window system capabilities.

Maximum Vent Sizes	W	x	H
Top Hung	1500	x	1500
Side Hung	1000	x	1500
Minimum Vent Sizes	W	x	H
Top Hung	442	x	442
Side Hung	442	x	442

Please refer to limitations data within the manual and supplementary documents.

Multi-lights: *all mullions and transoms over 1200mm high or wide should be checked for lxx value stability to loadings provided by the specifier, or to BS6399 part 2:1997*

The above schedule is based on nominal test results and assumes that adequate care regarding the location and exposure of the window is taken by the fabricator.

Due regard should be given to the maximum recommended sizes, as published by the hardware manufacturers.

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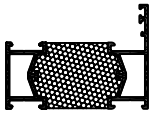
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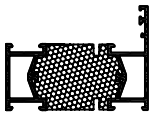
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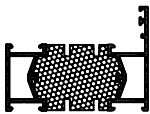
Frames



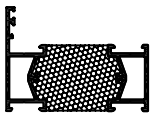
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Glaze Out Frame



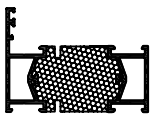
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Glaze Out Frame



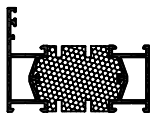
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Glaze Out Frame



PUR002001
Glaze In Frame



PUR002001G
Glaze In Frame



PUR002001GG
Glaze In Frame



PUR001001
Multi Frame

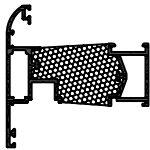


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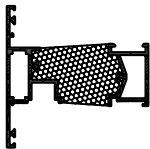


PUR001001GG
Multi Frame

Vents



PUR004031
Radius Vent



PUR005031
Flat Vent

Beads



PUR011
Bead



PUR012
Bead



PUR013
Bead



PUR014
Bead



PUR015
Bead



PUR016
Bead

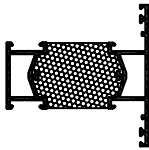


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Bead

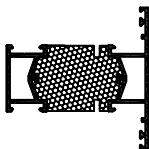


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Bead

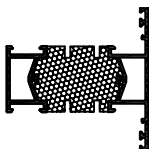
Mullions/Transoms



PUR001003
Glaze Out Mullion/Transom

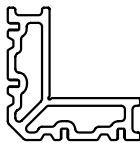


PUR001003G
Glaze Out Mullion/Transom



PUR001003GG
Glaze Out Mullion/Transom

Cleats



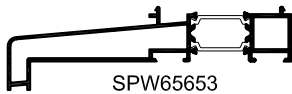
PUR021
Corner Cleat

Curtain Wall



PUR028
Curtain Wall Adaptor

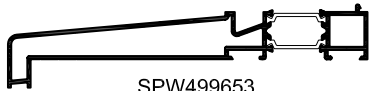
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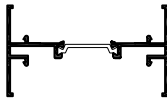
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150mm Cill



SPW65959
Coupling Section



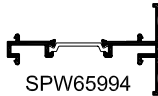
SPW499653
190mm Cill



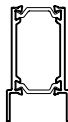
SPW69494
H Coupler



SPW65353
25mm Add-On



SPW65994
T Coupler



PUR035035
28mm Trickle Vent Adaptor



SPW629358
Reinforced Coupling Section



SAE25X4
Georgian Bar



PUR034
Add-On Cap



SXTW216
Drip Bar



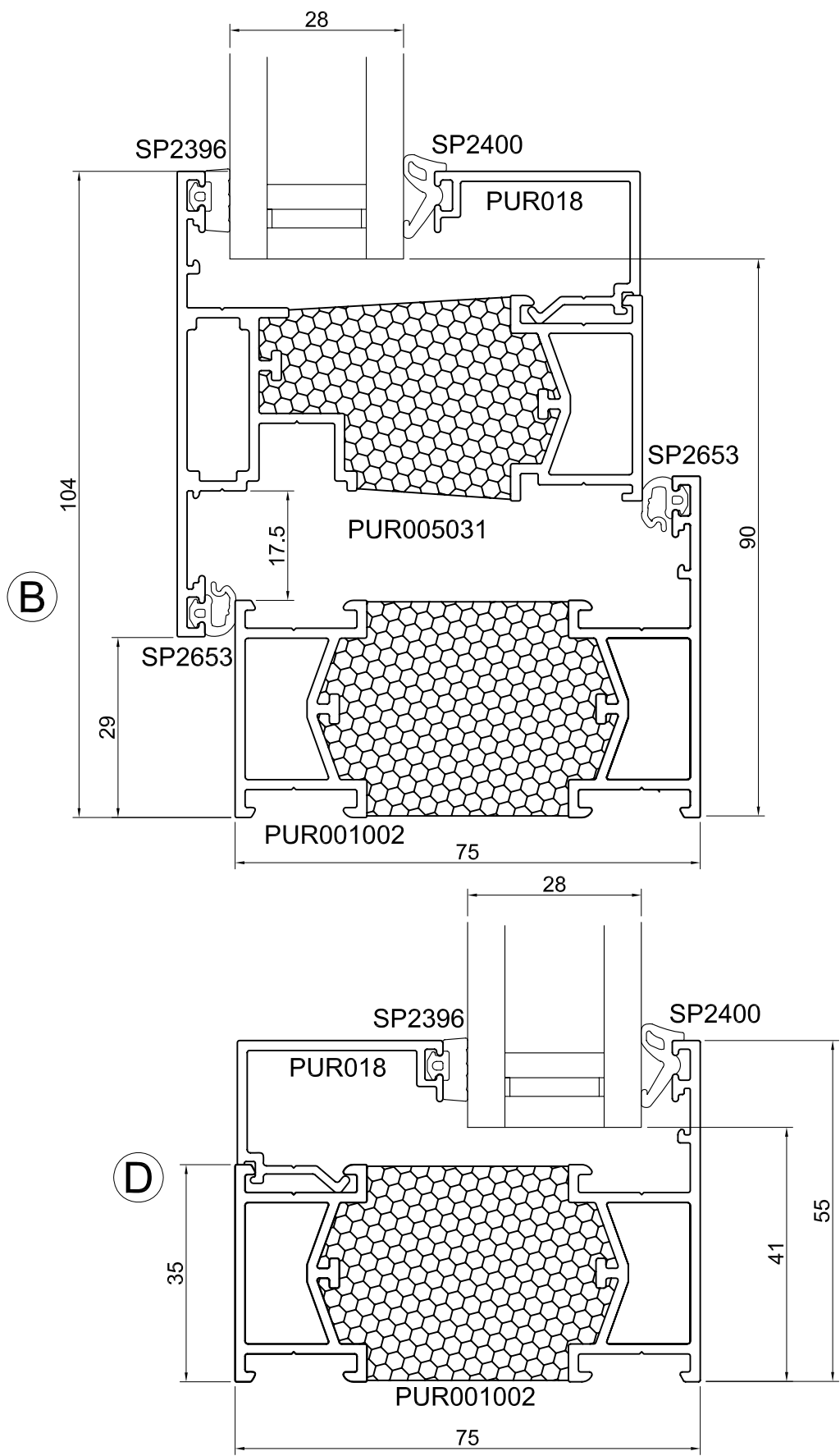
PUR033
Add-On Reinforcing Bar

PURe Casement

Vertical Cross Section - Cill

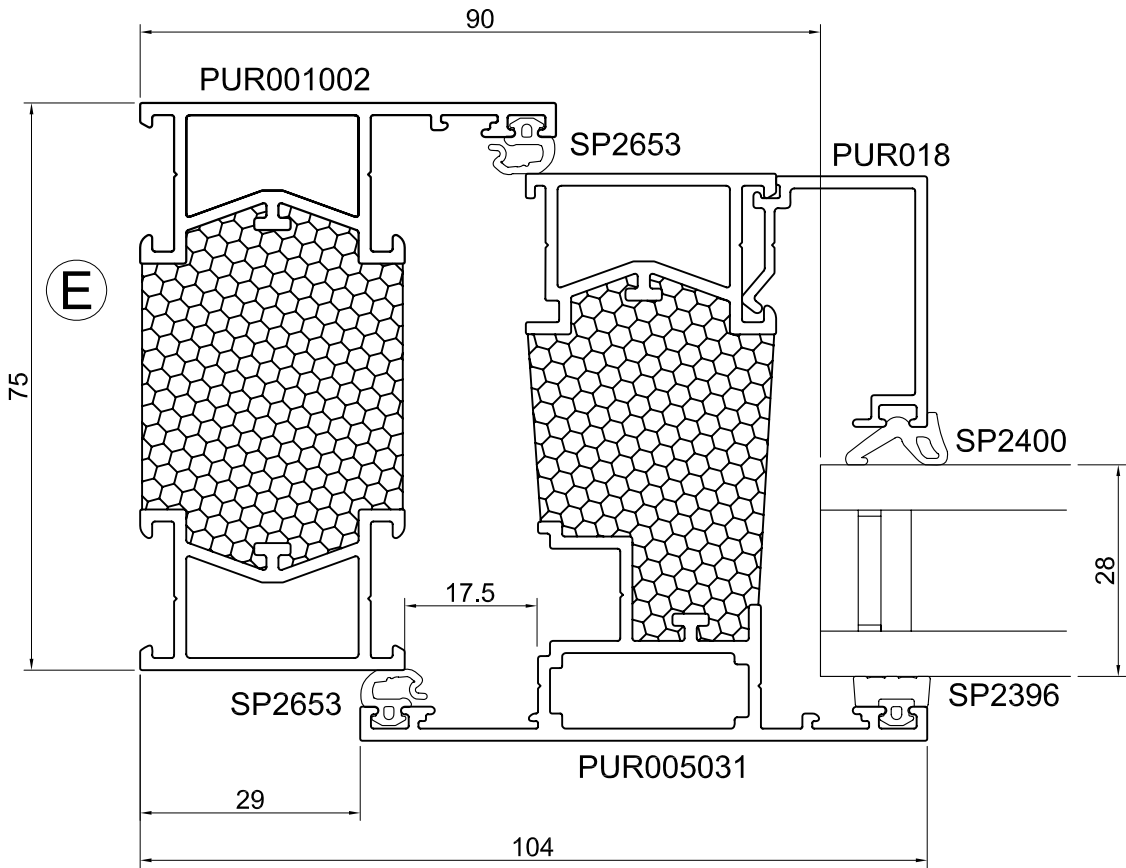
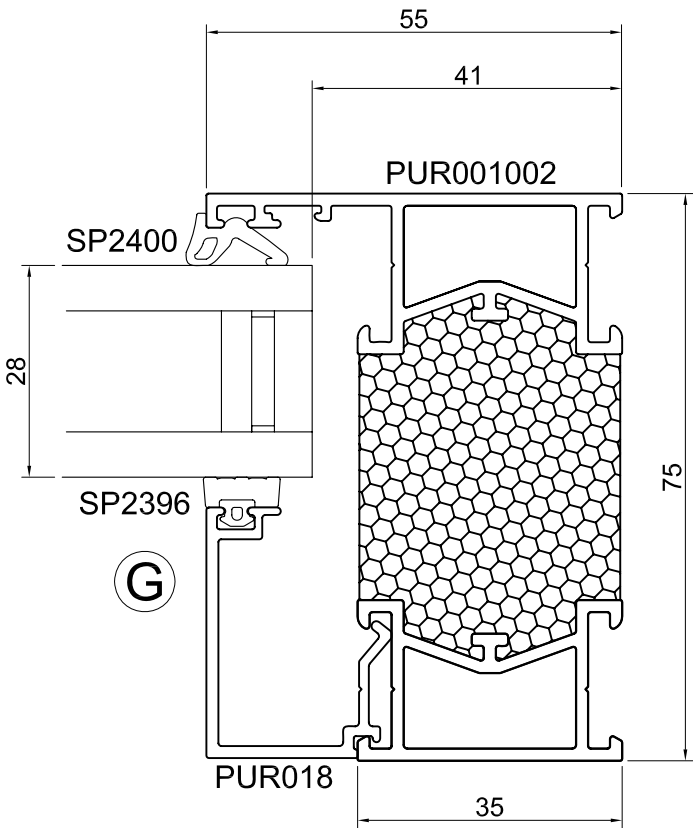
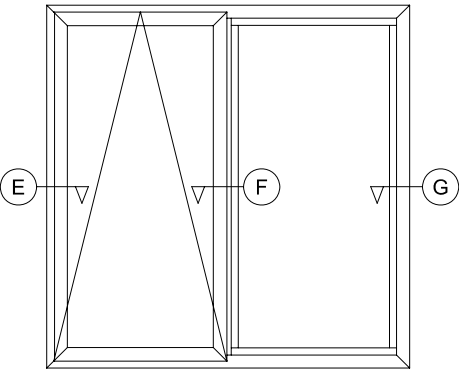
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PURe Casement

Horizontal Cross Section - Jamb

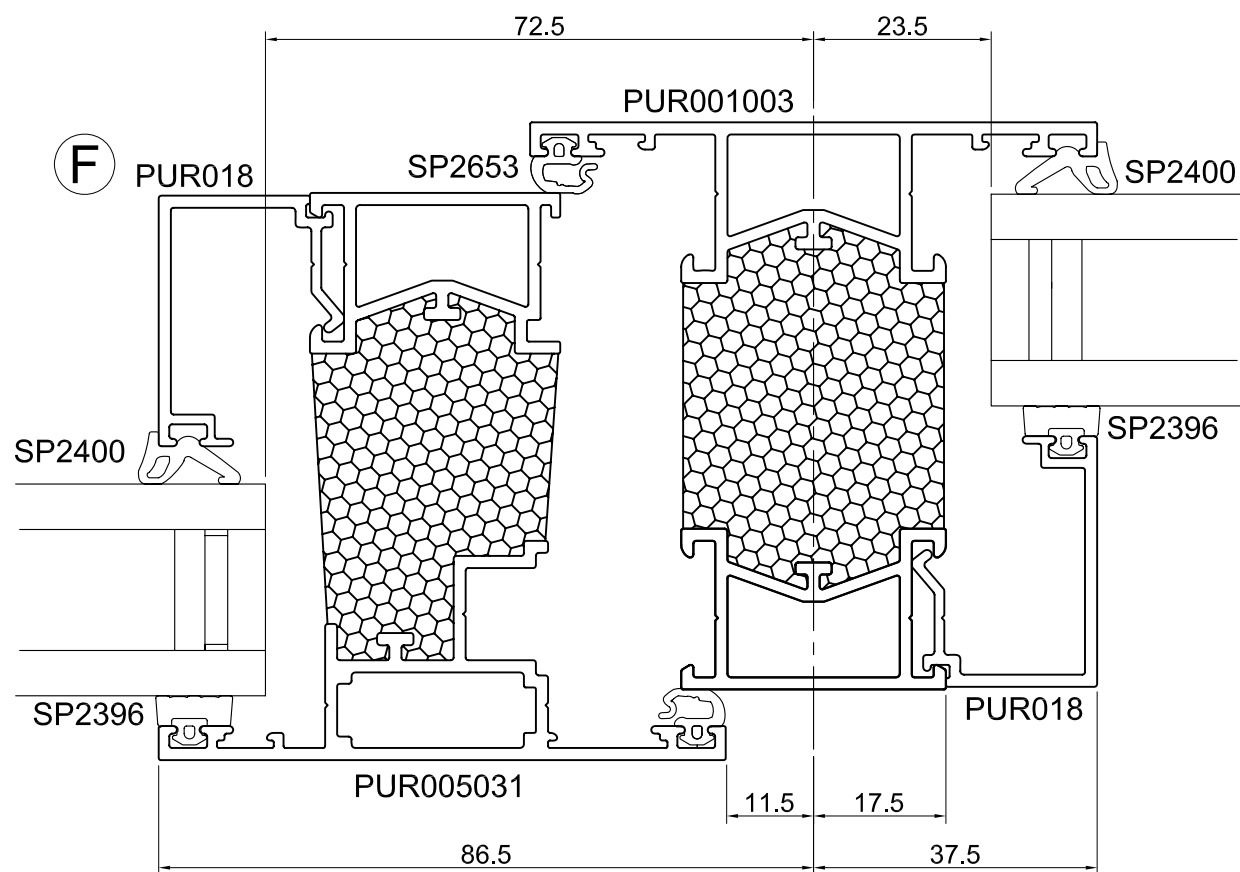


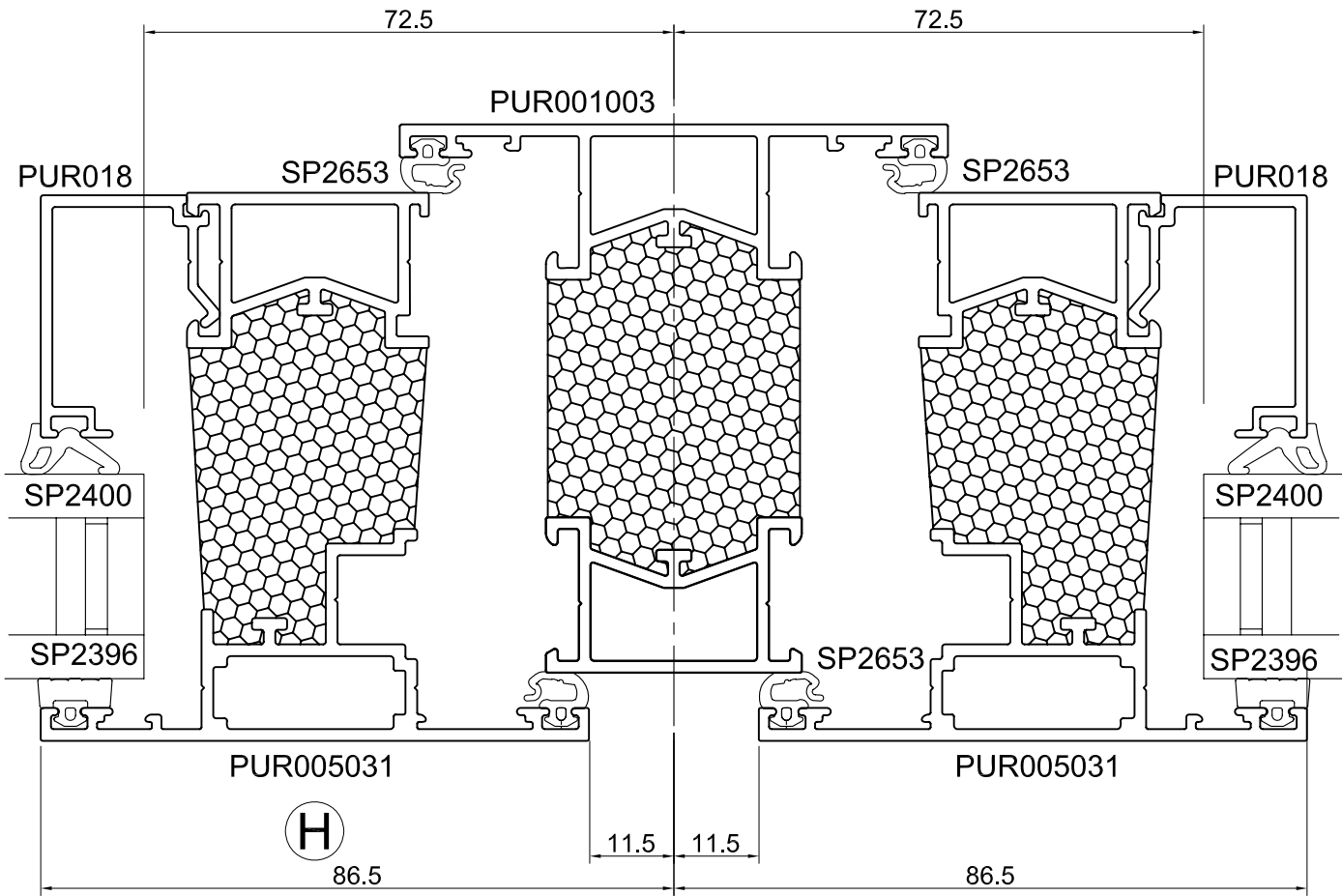
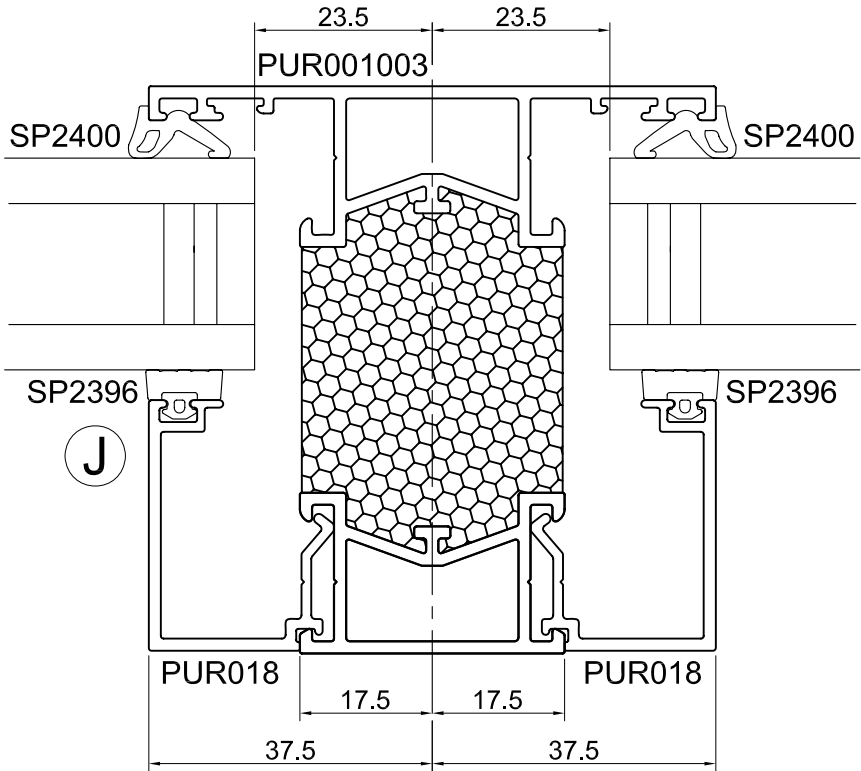
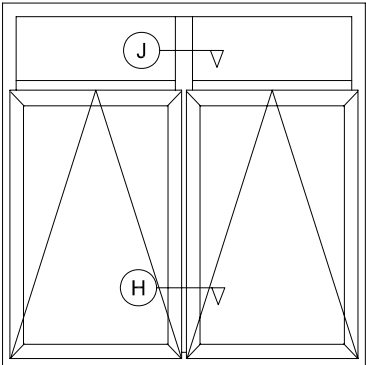
PURe Casement

Horizontal Cross Section - Mullion

PURe.A.1204

02.15



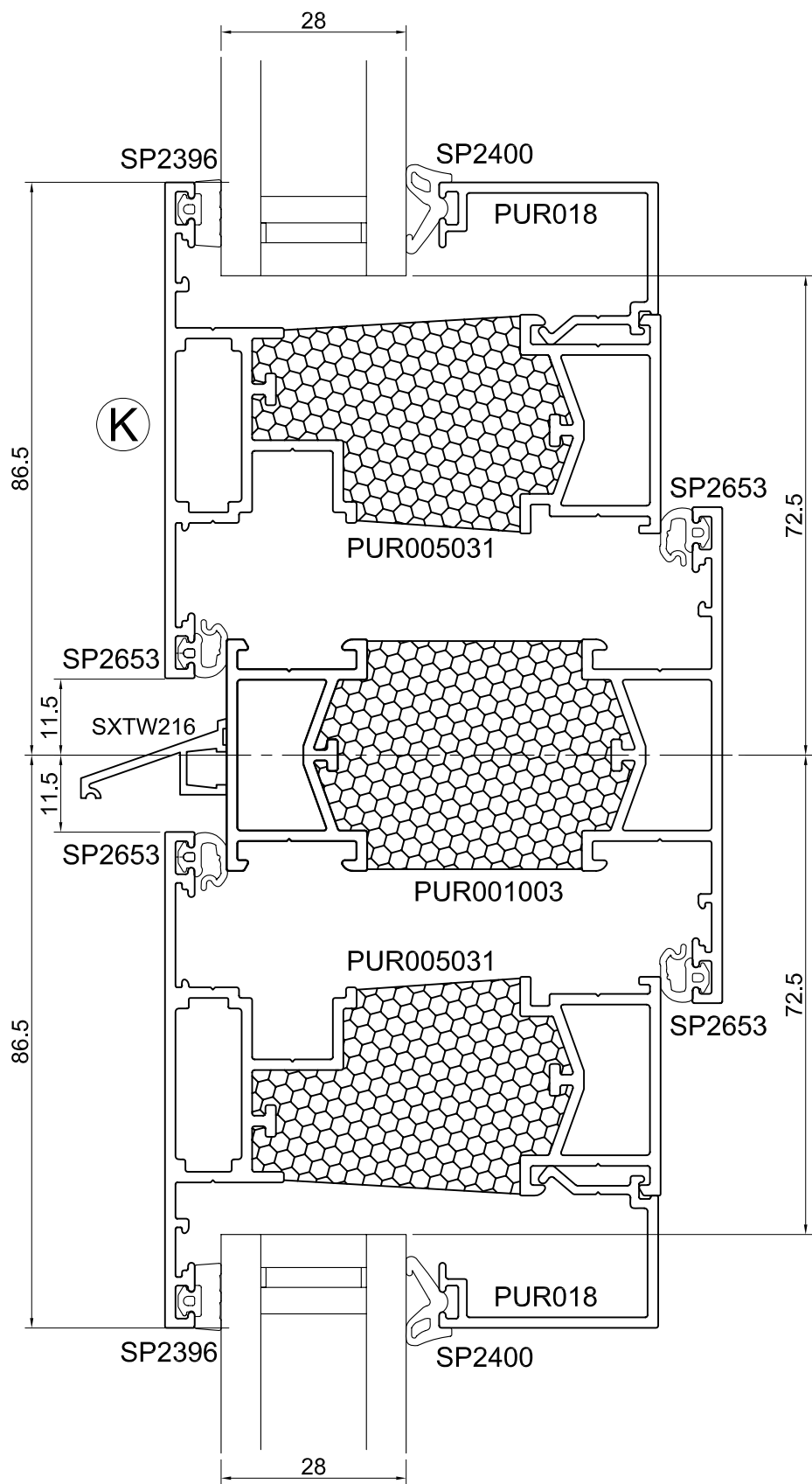
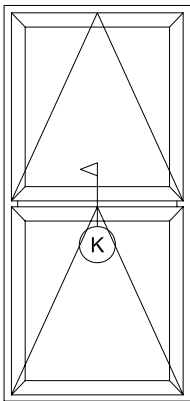


PUR_e Casement

PUR_e.A.1206

Vertical Cross Section - Transom/Mullion

02.15

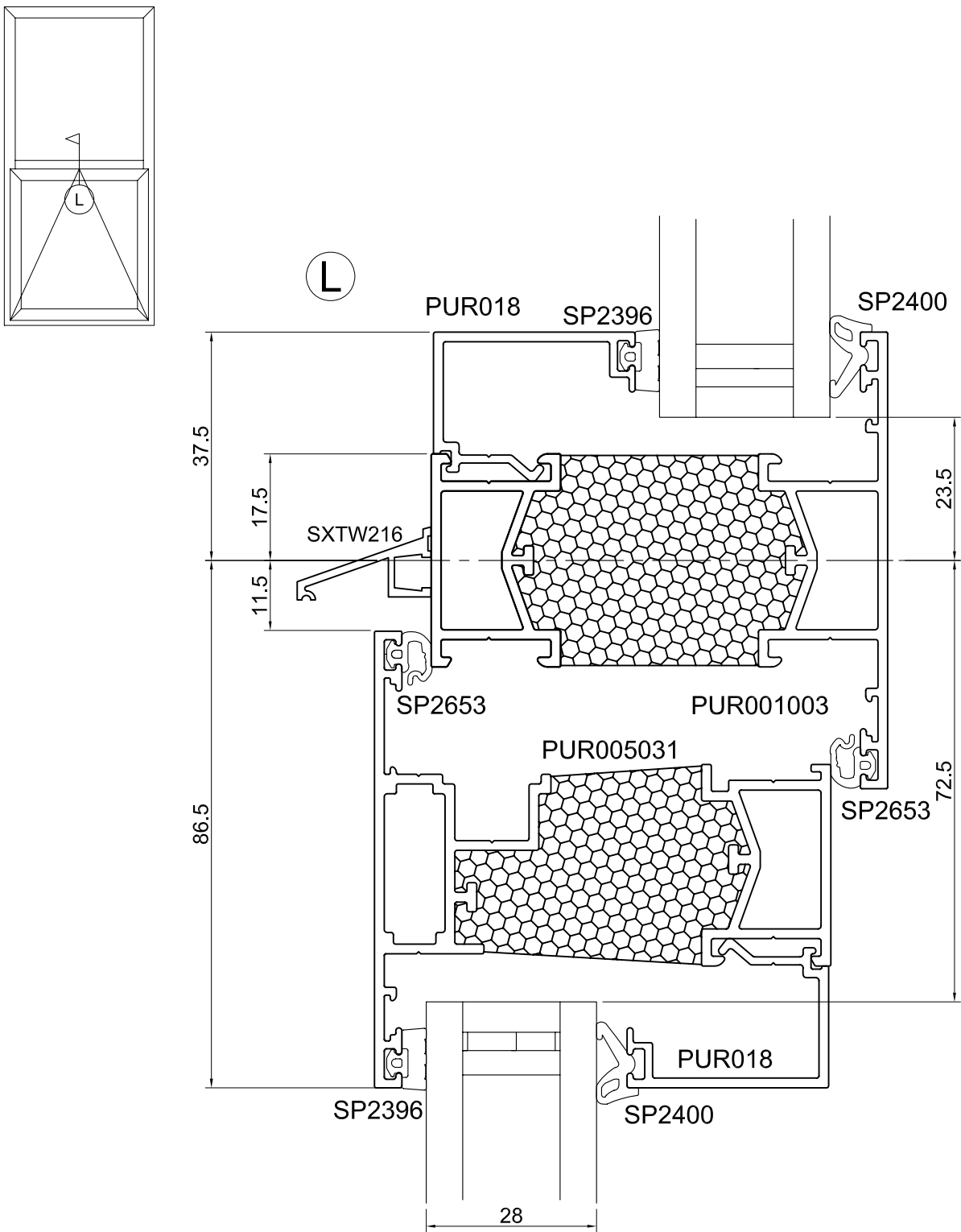


PURe.A.1207

02.15

PURe Casement

Horizontal Cross Section - Transom

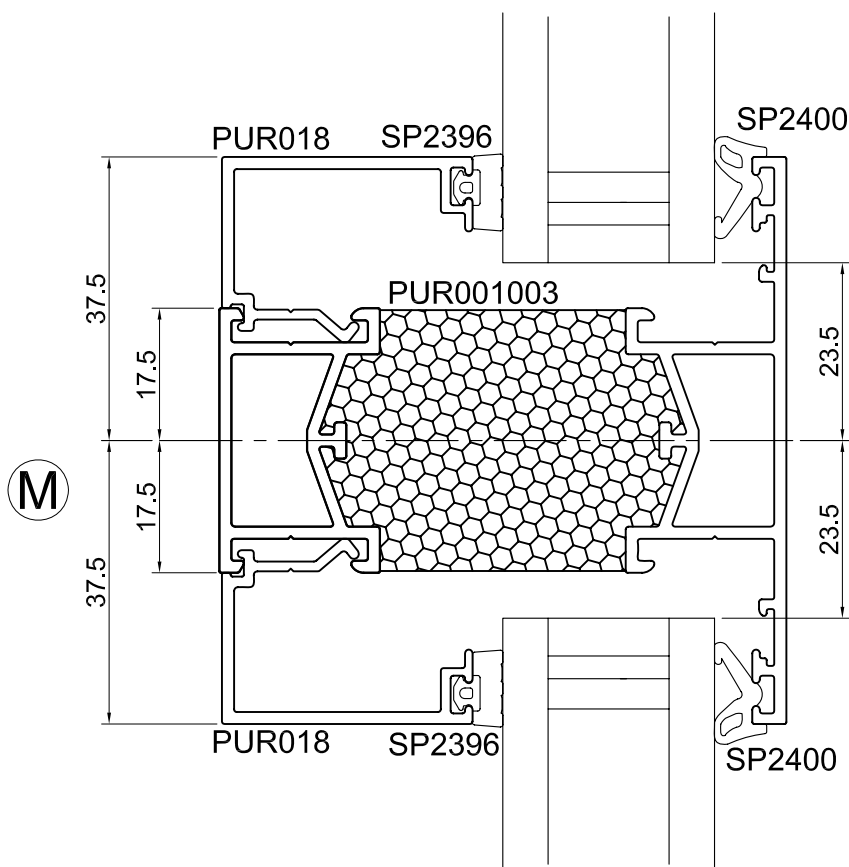
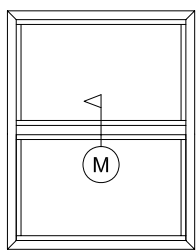


PUR_e Casement

PUR_e.A.1208

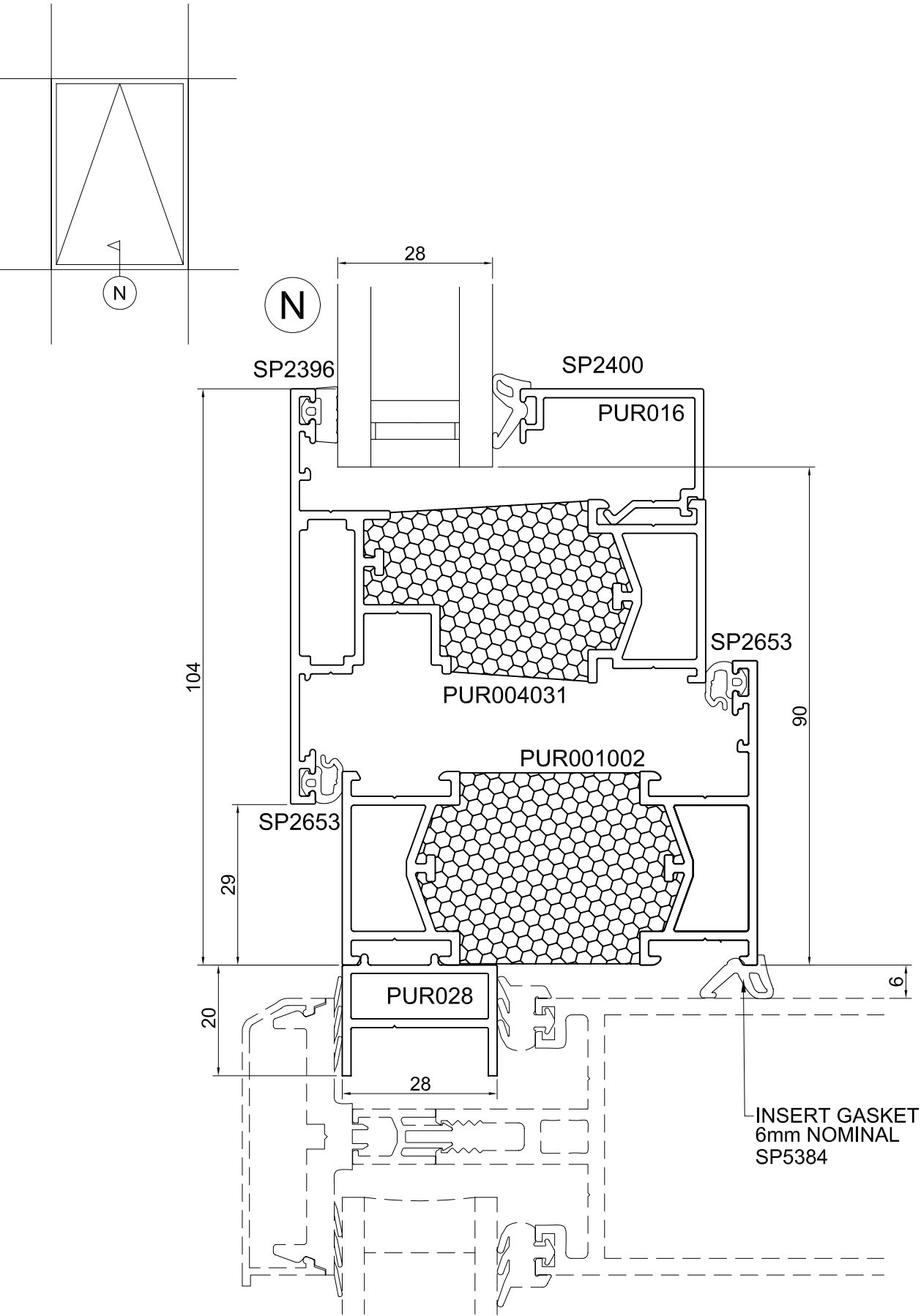
Vertical Cross Section - Transom/Mullion

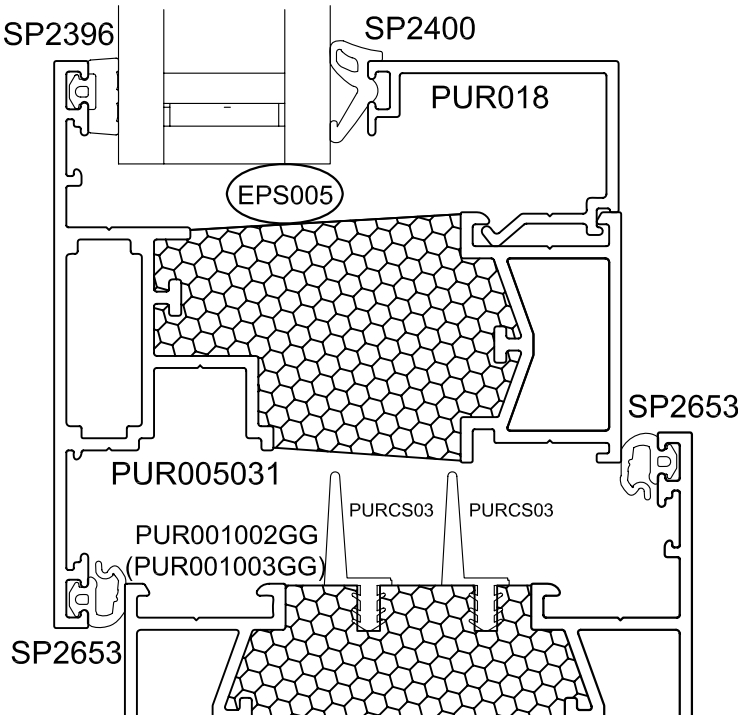
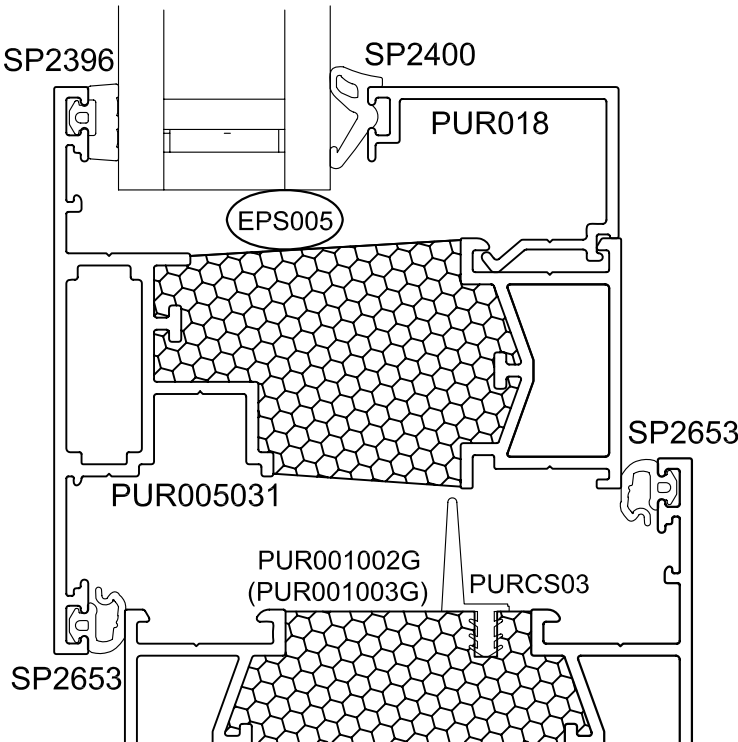
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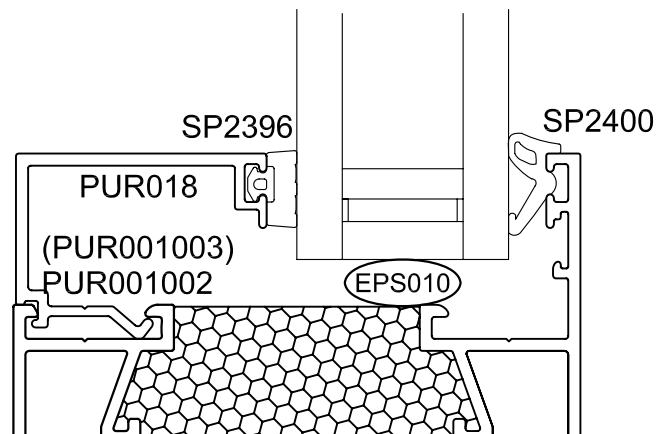
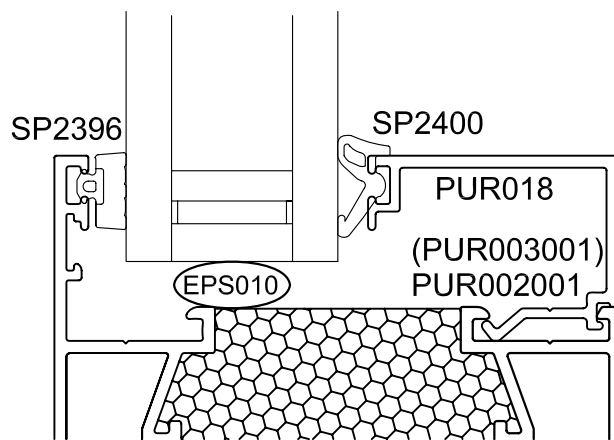
PURe Casement

Vertical Cross Section - Curtain Wall Adaptor





Vertical Cross Section - Thermal Enhancement - Fixed Light/ Transom/ Vent

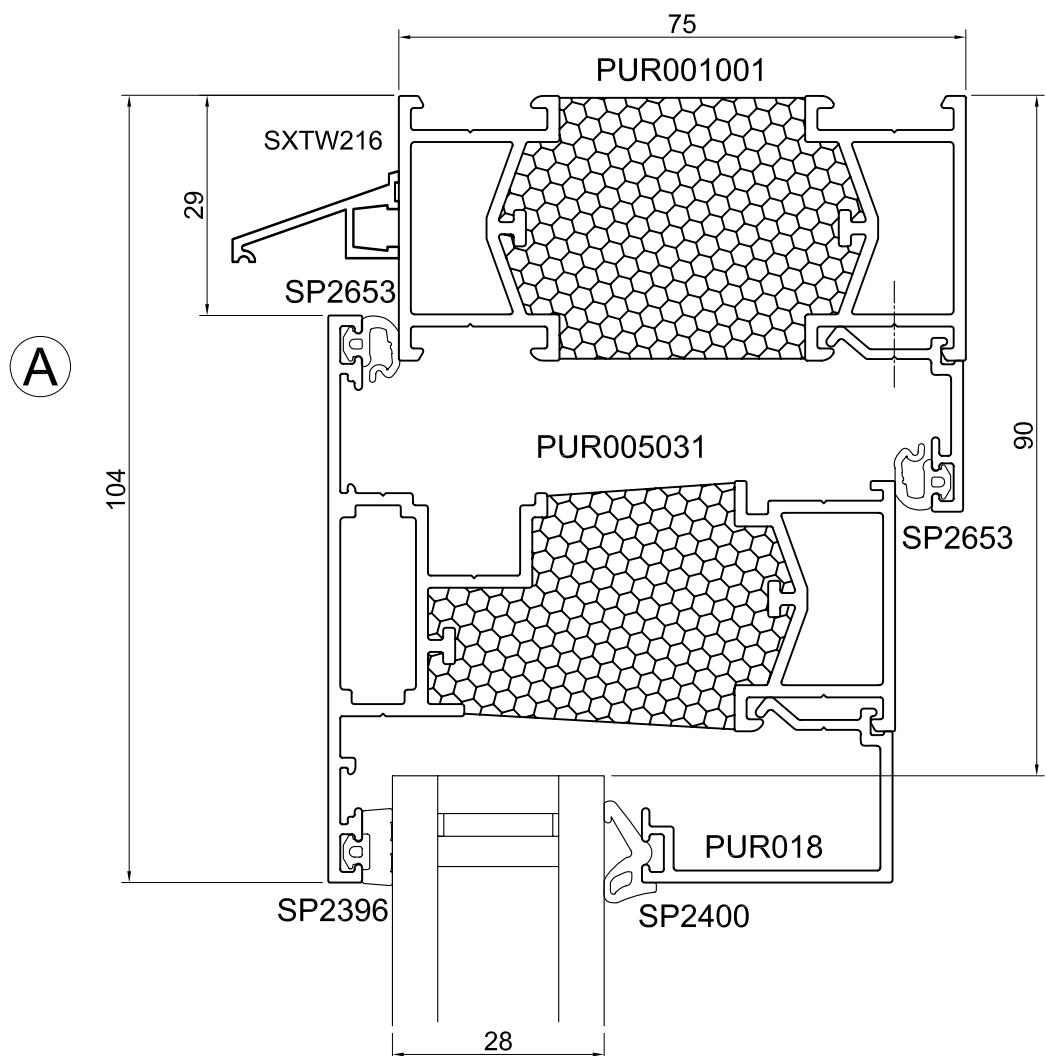
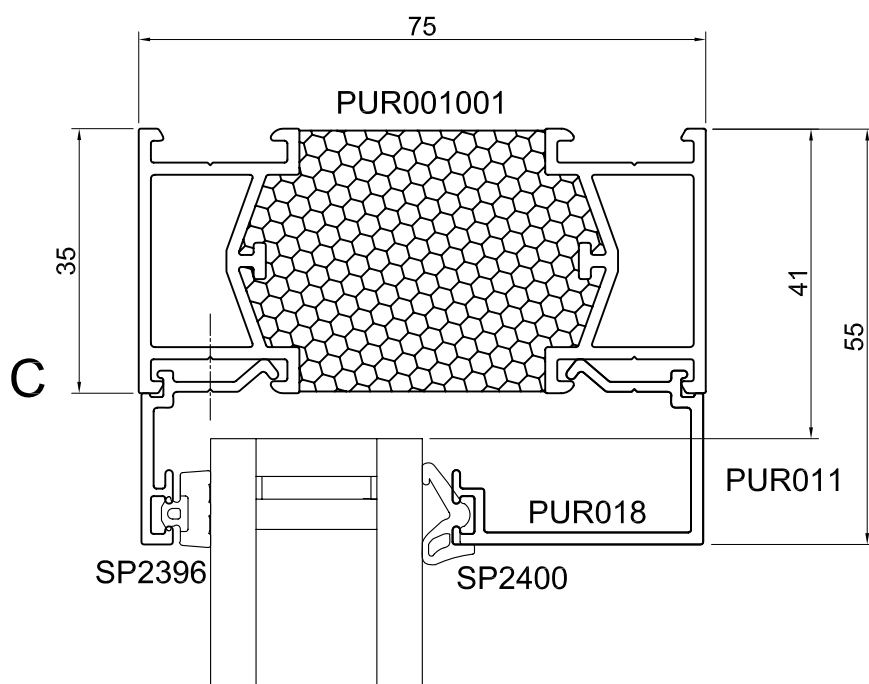
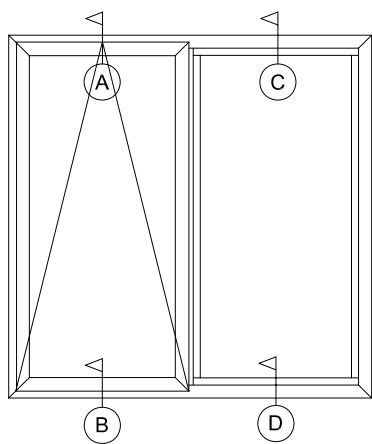


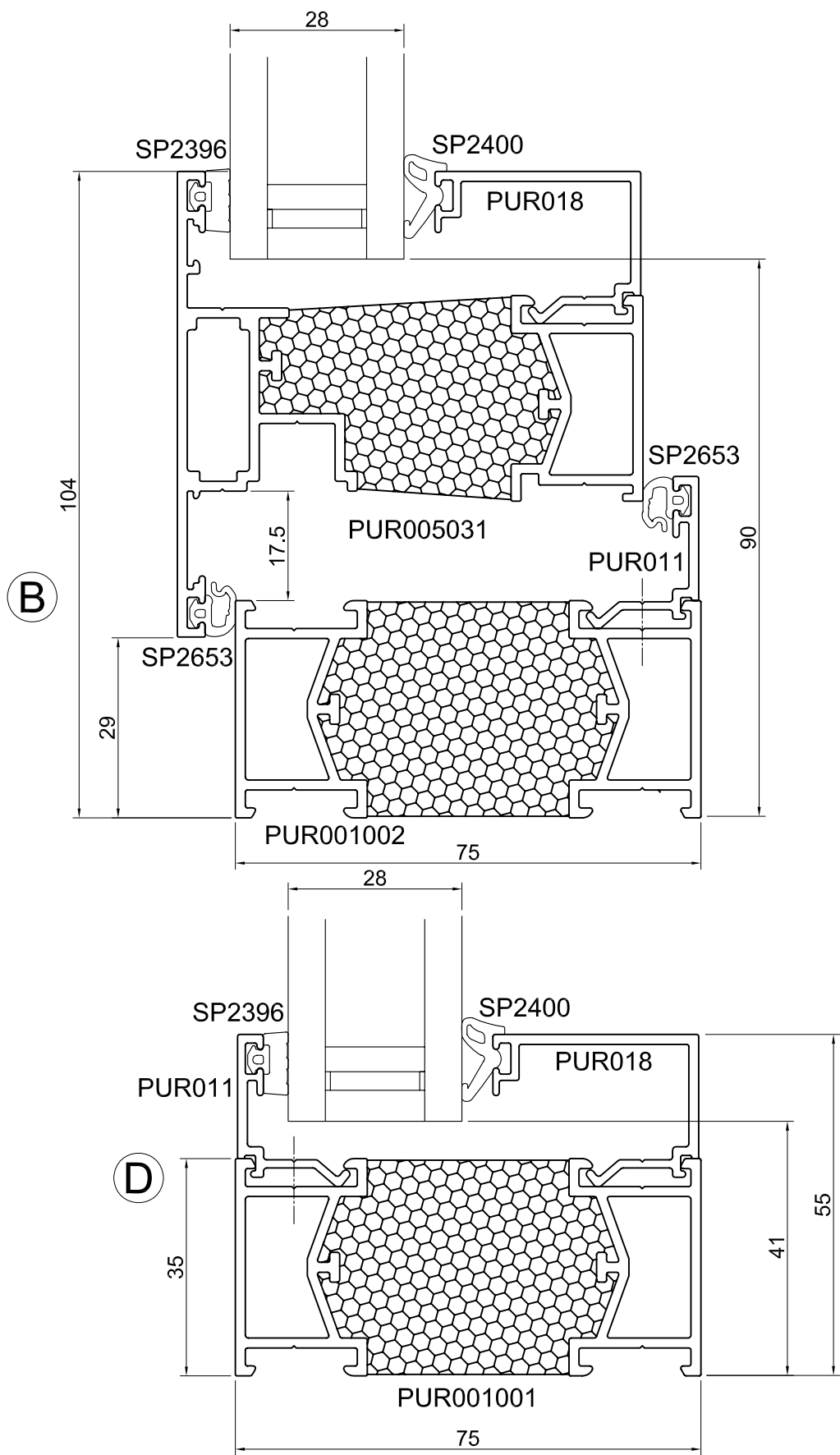
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PURe.A.1401

02.15

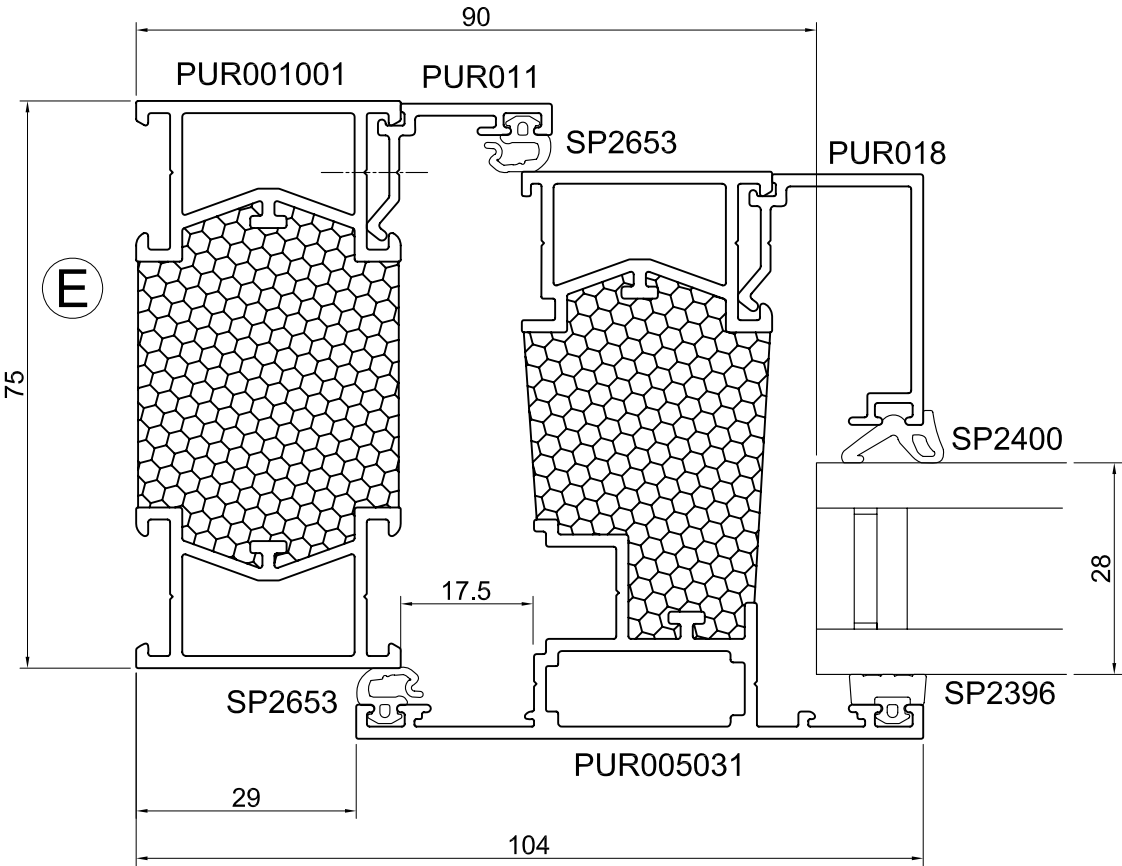
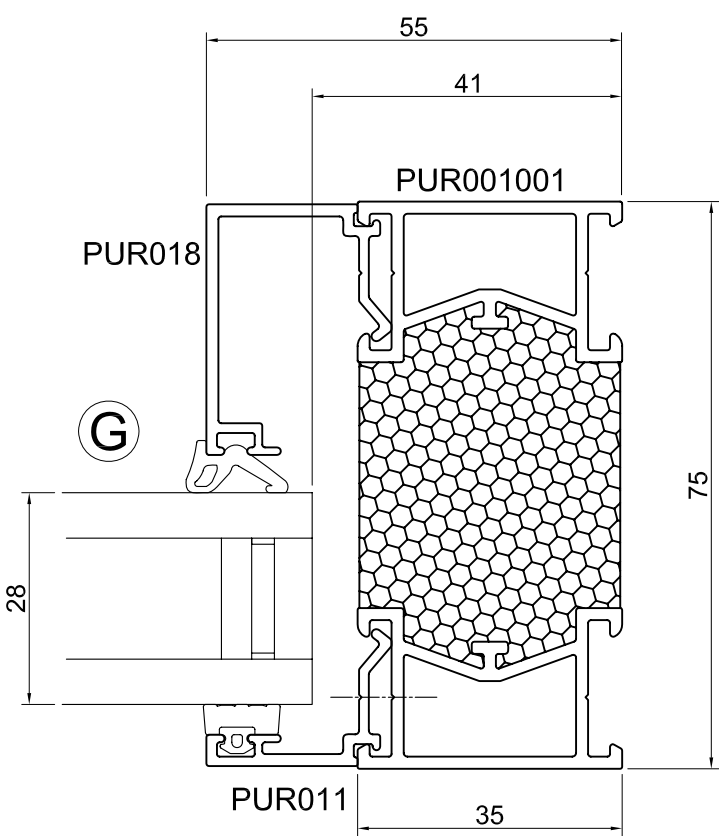
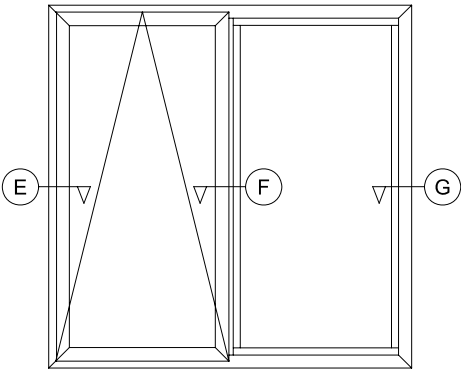
PURe Casement
Vertical Cross Section - Head





PURe Casement

Horizontal Cross Section - Jamb

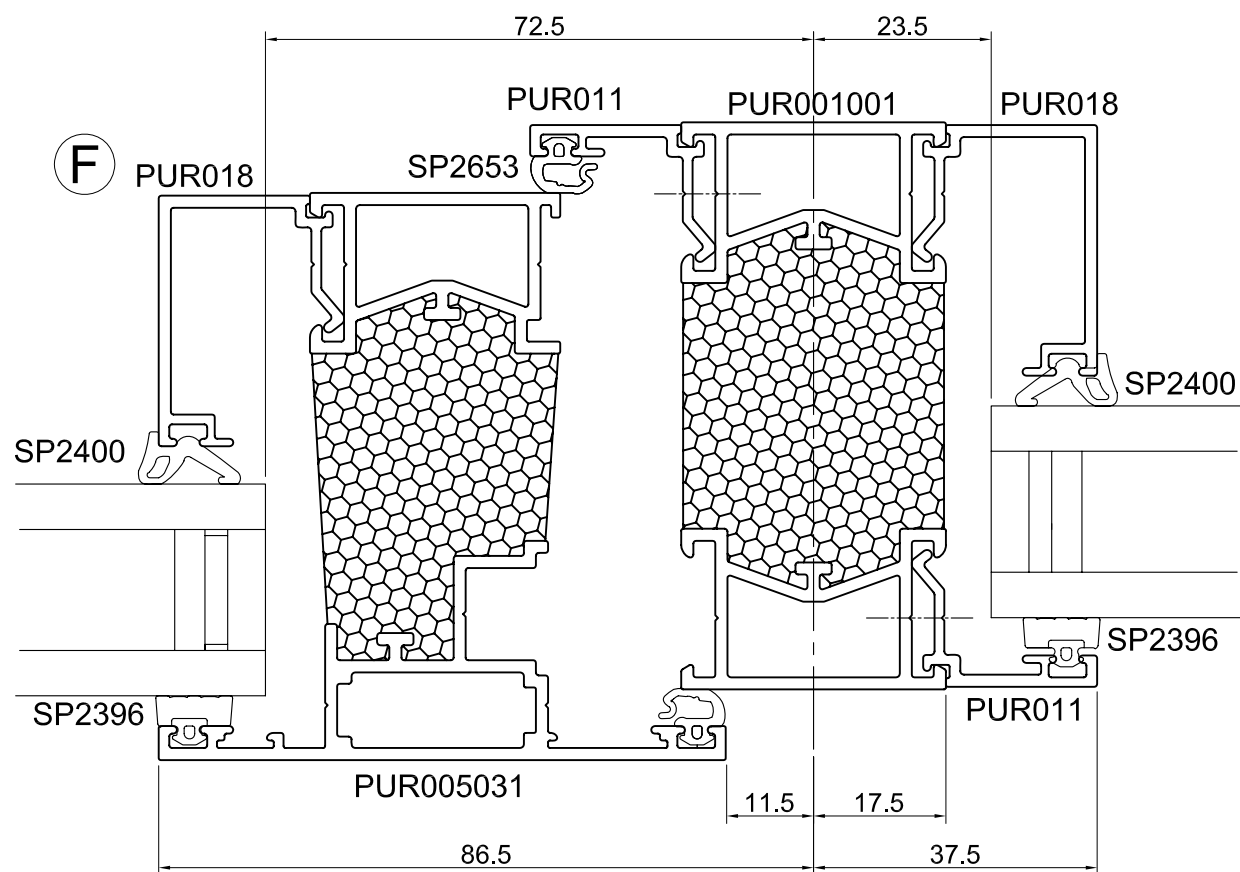


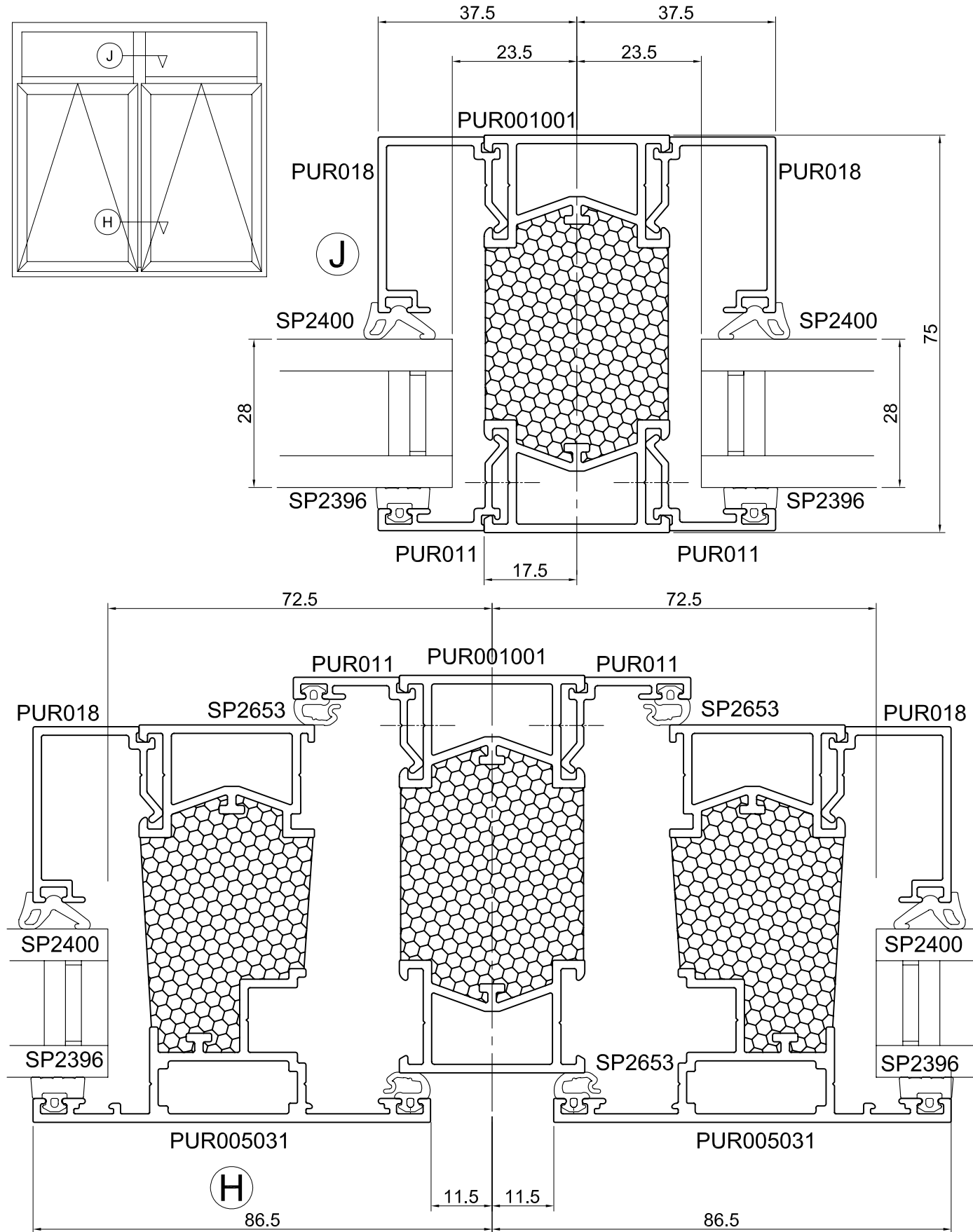
PURe Casement

Horizontal Cross Section - Mullion

PURe.A.1404

02.15



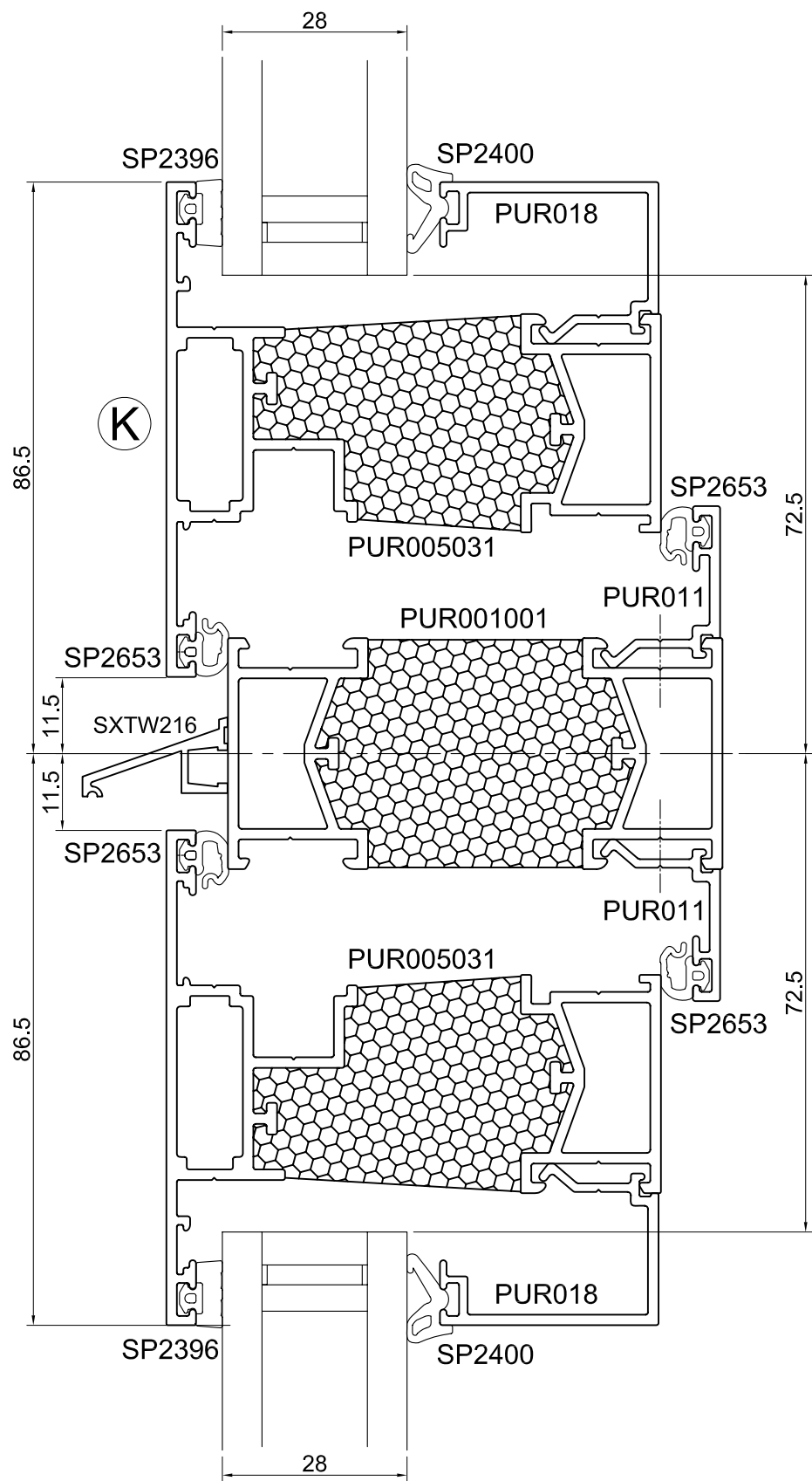
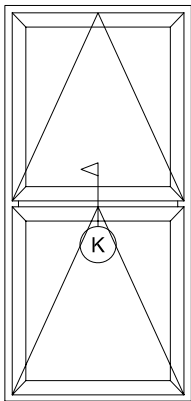


PUR_e Casement

PUR_e.A.1406

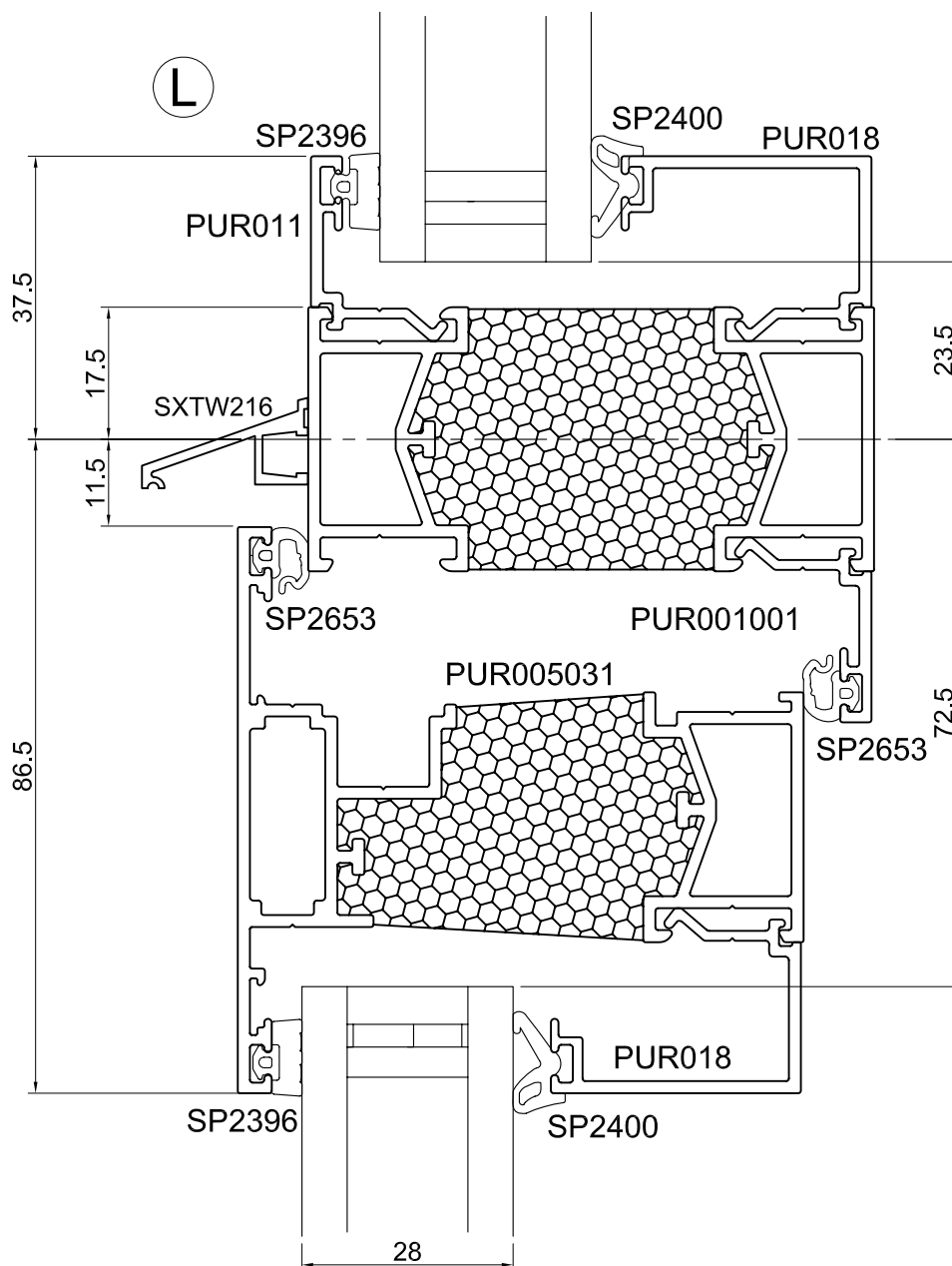
Vertical Cross Section - Transom/Mullion

02.15



02.15

Horizontal Cross Section - Transom

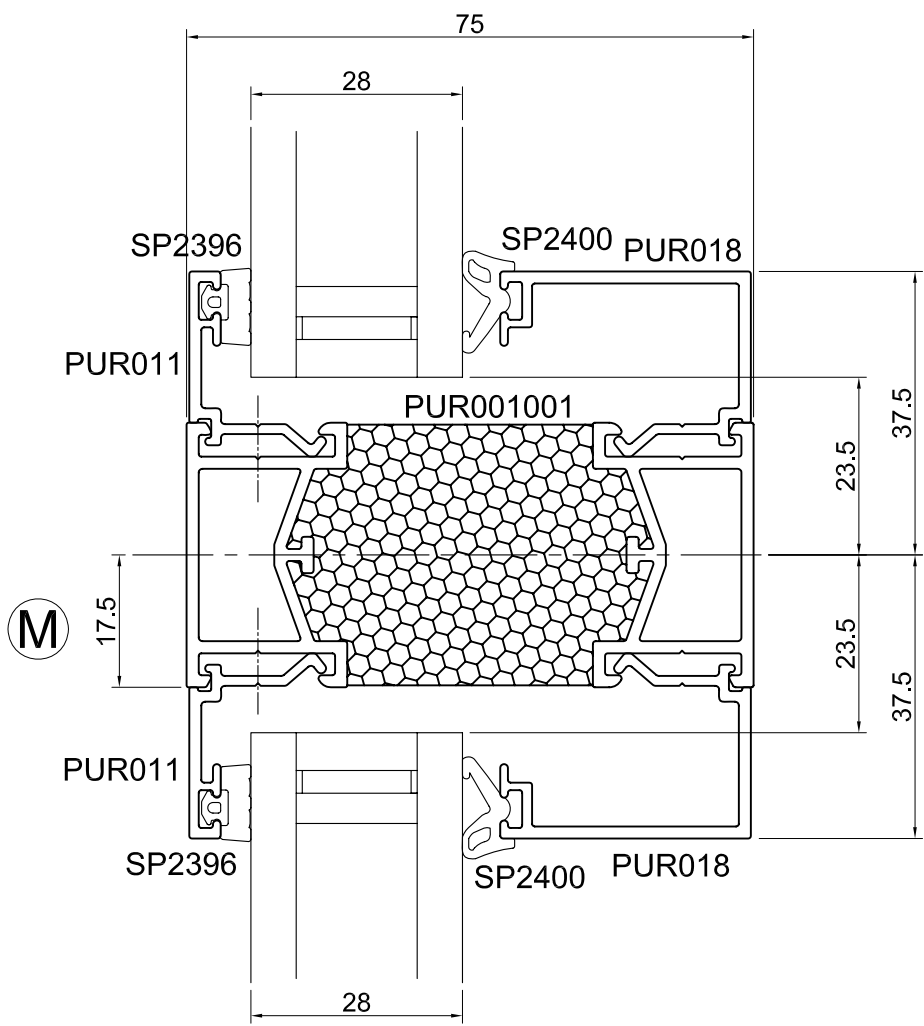
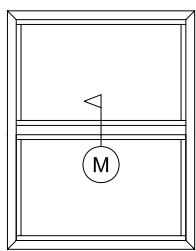


PUR_e Casement

PUR_e.A.1408

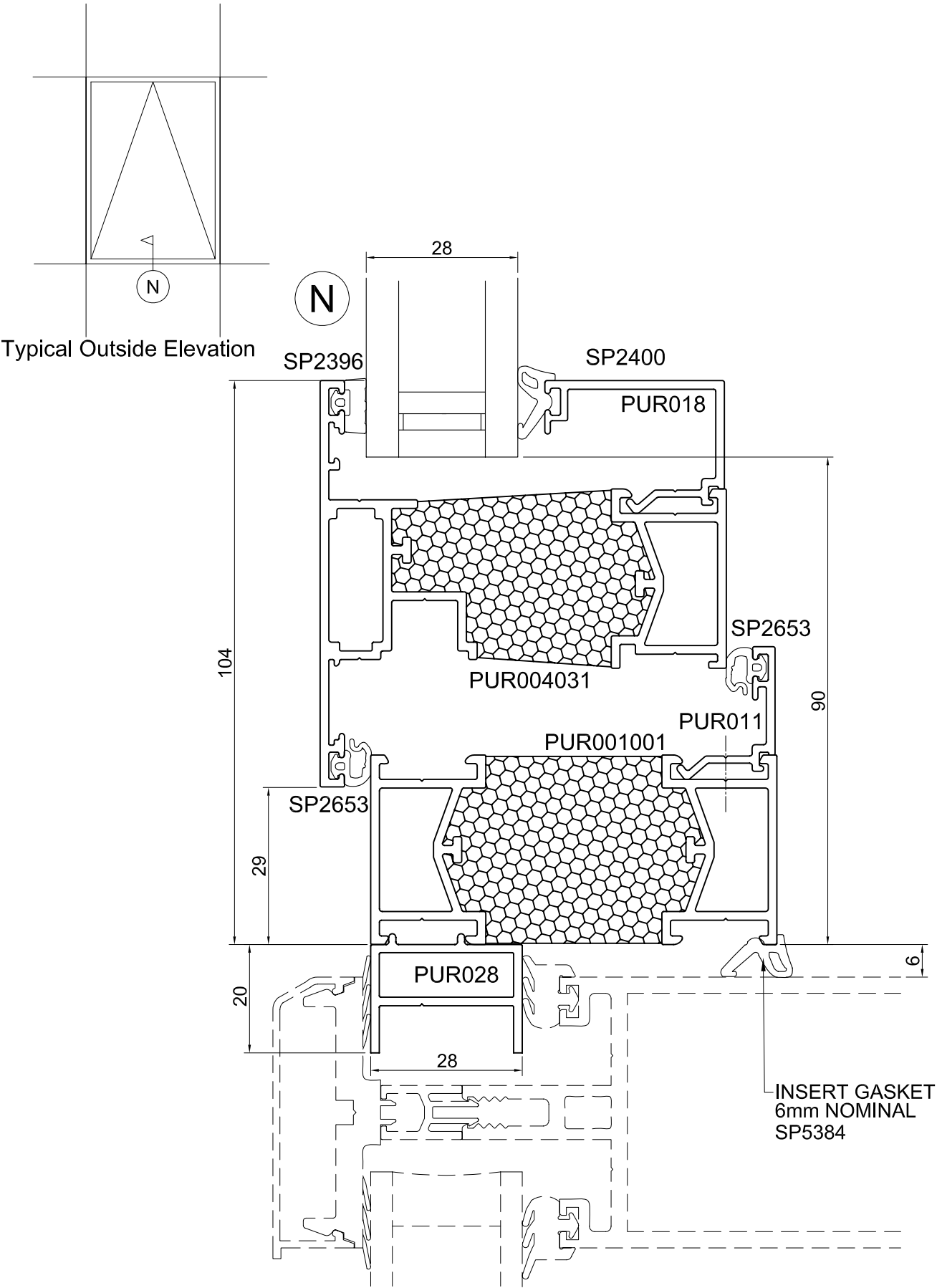
Vertical Cross Section - Transom/Mullion

02.15



PURe Casement

Vertical Cross Section - Curtain Wall Adaptor

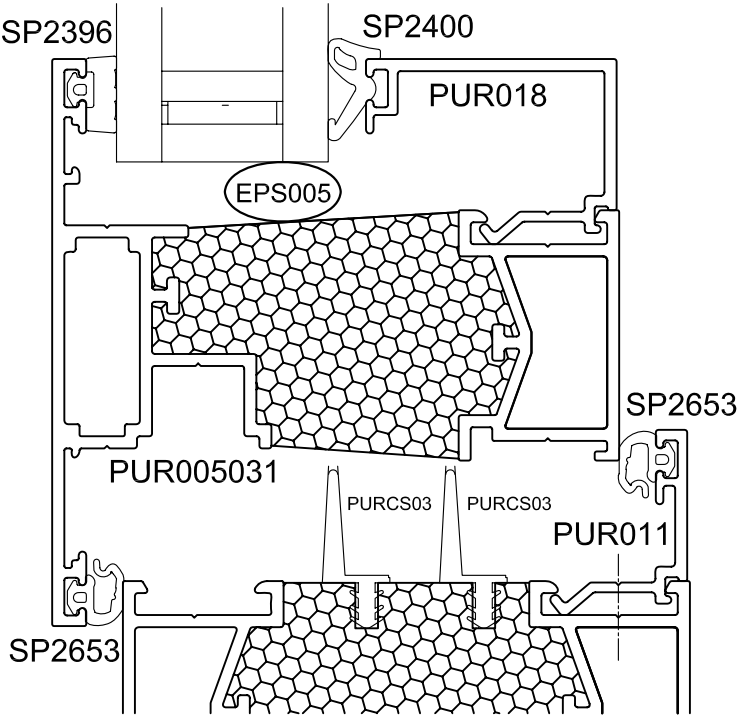
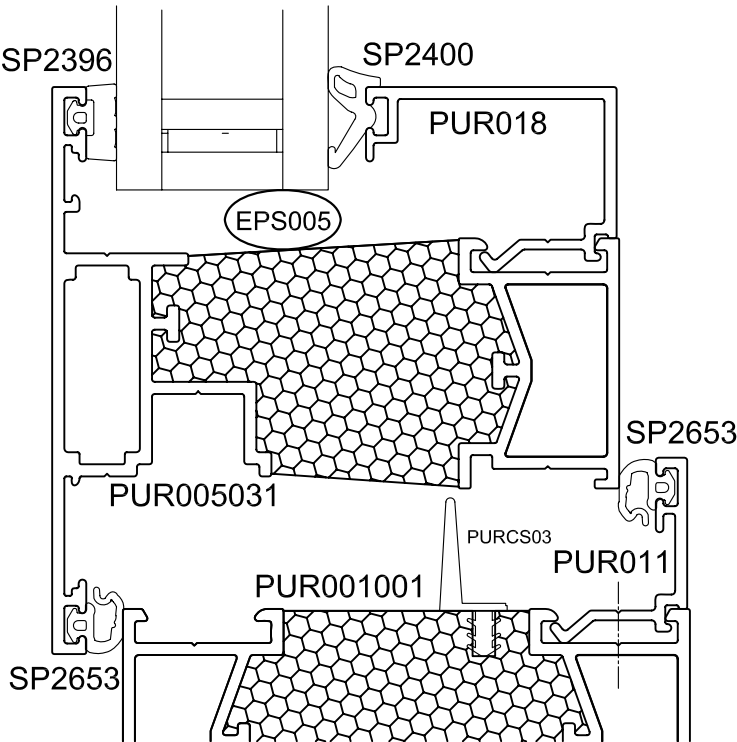


PURe Casement

PURe.A.1410

Vertical Cross Section - Thermal Enhancement - Fixed Light/
Transom/ Vent

02.15

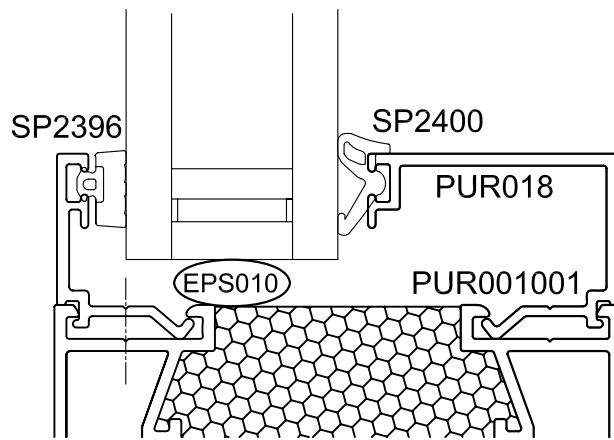


PURe.A.1411

PURe Casement

02.15

Vertical Cross Section - Thermal Enhancement - Fixed Light/
Transom/ Vent



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