BUSHFIRE PROTECTION: DOORS AND WINDOWS

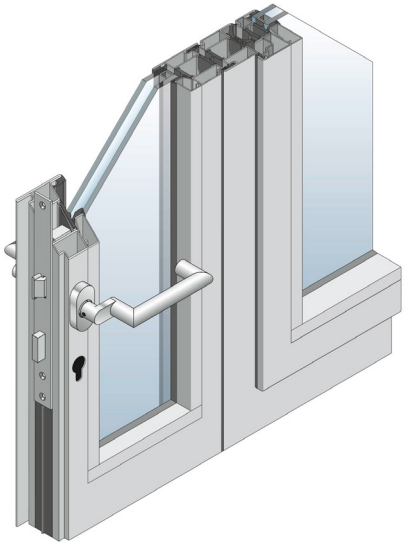
RATING: BAL-FZ

SYSTEM: Forster Unico Steel Framing System



Incorporating Forster Unico thermally broken steel framing system with Pilkington Pyrostop® fire rated glass, these doors and windows been tested and approved for bushfire projects requiring a BAL-FZ (AS3959) rating.

Suited for both domestic and commercial applications that require certified bushfire resistance for Flame Zone (BAL-FZ), the Forster Unico framing system provides the endurance and strength of steel, while the integrated thermal break provides superior energy ratings to meeting BASIX requirements, often required for projects located in bushfire prone areas. This system is only supplied with double glazing, and is offered in single and pair hinged doors, fixed panels, awning windows, and tilt and turn windows.



FEATURES

- BAL-FZ to AS3959 (via approval to AS1530.4)
- Single and pair door configurations
- Outward Awning or inwards opening Tilt and turn
- Outward and inward opening casements
- Large fixed panes
- Large variety of profile shapes and sizes to meet architectural design intent
- Glass A impact rated Pilkington Pyrodur® glass with a variety of energy efficient options for secondary panes (contact TPS for glass options to meet the project BASIX requirements).
- Energy efficient fire rated thermally broken forster Unico steel framing system
- Powder coated, stainless steel, or paint finish to mild steel frame
- DWG and DXF drawings, and full architectural support available from TPS
- Customised configurations available to suit a variety of architectural design requirements.

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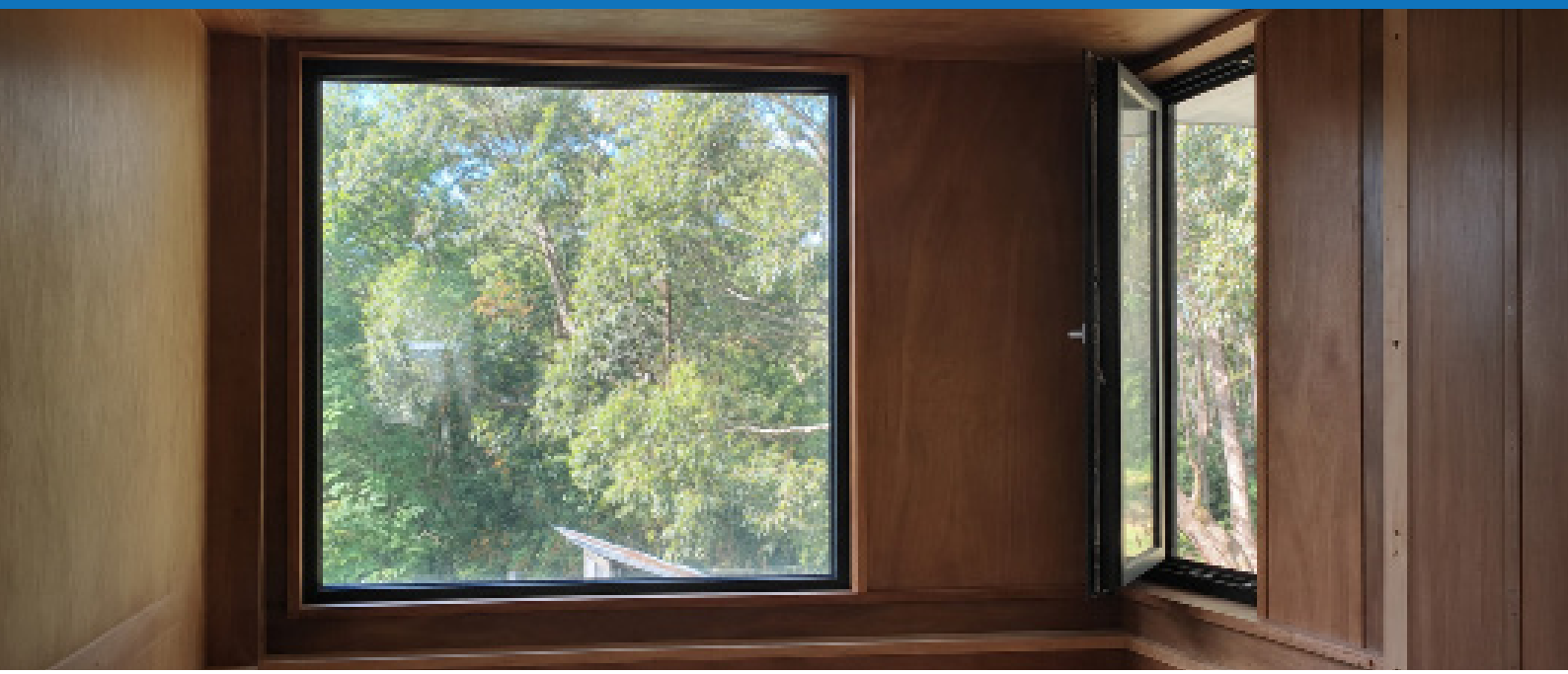
Data Sheet: TPS-DS-005
Date: 11/2026
Page: 1/13

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TPS TECHNICAL PROTECTION SYSTEMS

BUSHFIRE DOORS AND WINDOWS

BAL-FZ (FLAME ZONE) UNICO



TECHNICAL DATA

	BAL	Application	Max Height	Max Width
Single Door	BAL-FZ	Internal / External	2700	1400
Pair Door	BAL-FZ	Internal / External	2700	2700
Awning (Top Hung) Outwards Opening	BAL-FZ	Internal / External	900	2500
Casement (Side Hung) Outwards or Inwards Opening	BAL-FZ	Internal / External	2700	1400
Tilt and Turn Inwards Opening	BAL-FZ	Internal / External	2500	900
Fixed Panes	BAL-FZ	Internal / External	3000 (H or W)	1500 (W or H)

* Performance values are glass only, NFRC 100-2010. WERS window data available on request.

HOW TO SPECIFY

Doors and windows to be TPS BAL-FZ to AS3959 incorporating Forster Unico Thermally broken steel framing system with double glazed Pilkington Pyrodur® and selected secondary pane to meet BASIX energy requirements, available via Technical Protection Systems approved Australian and NZ distribution network.
Contact Technical Protection Systems Pty Ltd for further information.
W technicalprotection.com.au **P** 03 9720 1930 **E** info@technicalprotection.com.au

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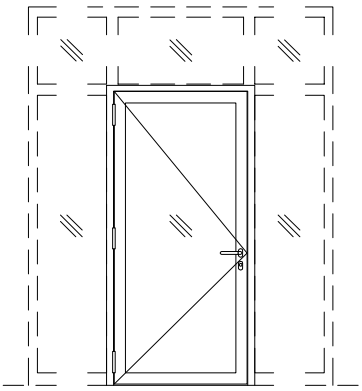
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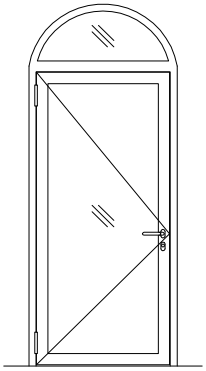
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TPS TECHNICAL PROTECTION SYSTEMS

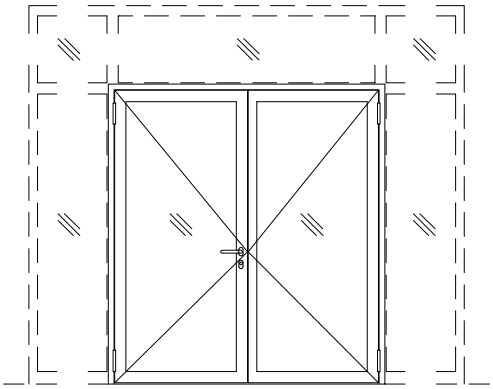
TYPICAL CONFIGURATIONS



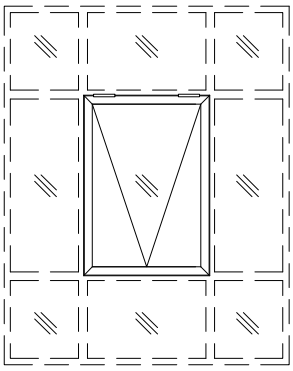
SINGLE DOOR



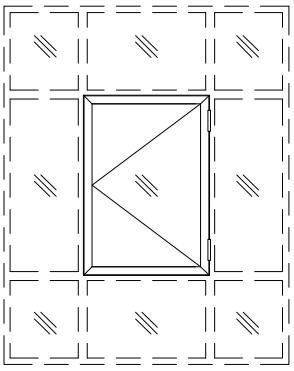
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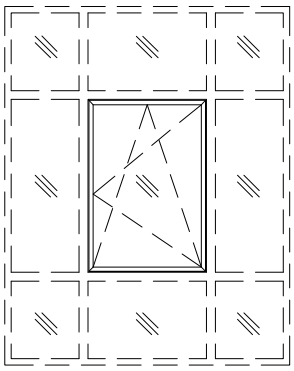
PAIR DOOR



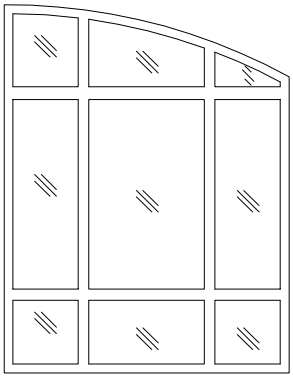
AWNING WINDOW



CASEMENT WINDOW



TILT / TURN WINDOW



FIXED WINDOW

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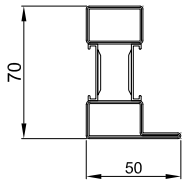
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Page: 3/13

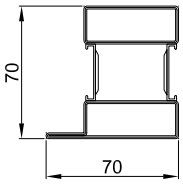
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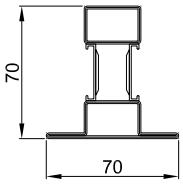
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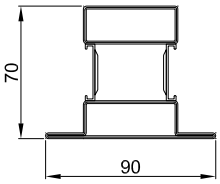
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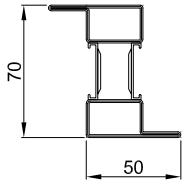
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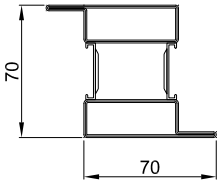
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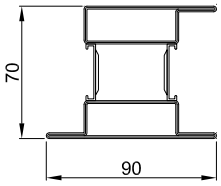
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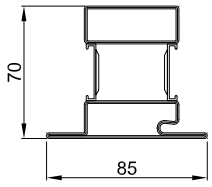
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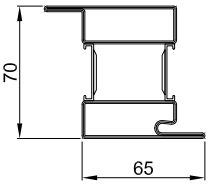
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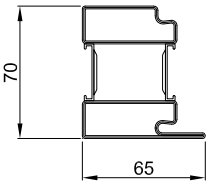
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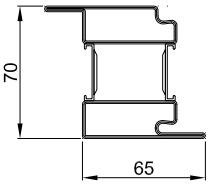
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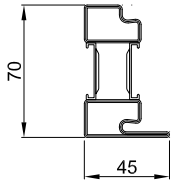
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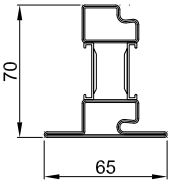
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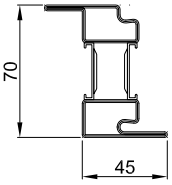
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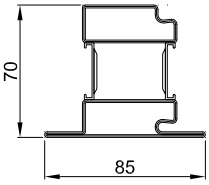
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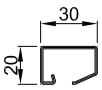
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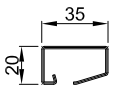
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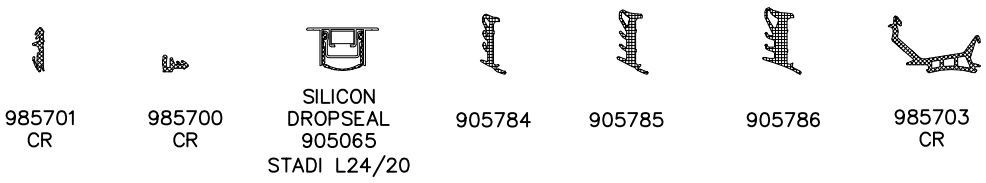
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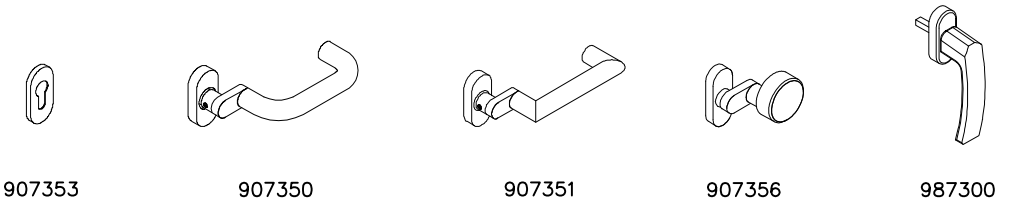
BAL-FZ HARDWARE AND ACCESSORIES



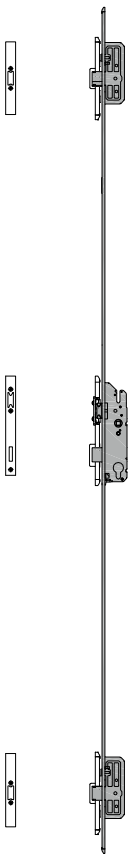
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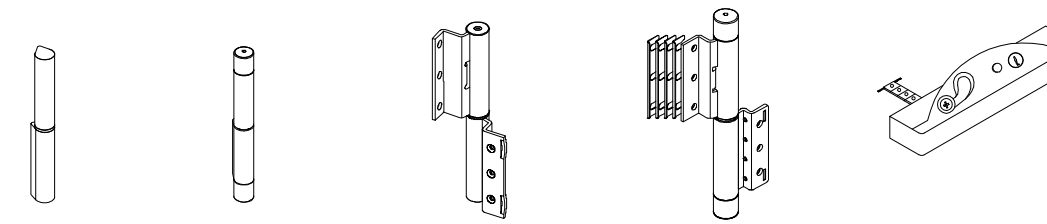


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907662 907664 CrNi | 907667 907668 CrNi | 987610 – 987613 987621 – 987624 | 987680 987681 | WINDOW CHAIN WINDER MK8 D5 CYLINDER STAINLESS STEEL WHITE W380316 | DOOR LOCK AND KEEPS

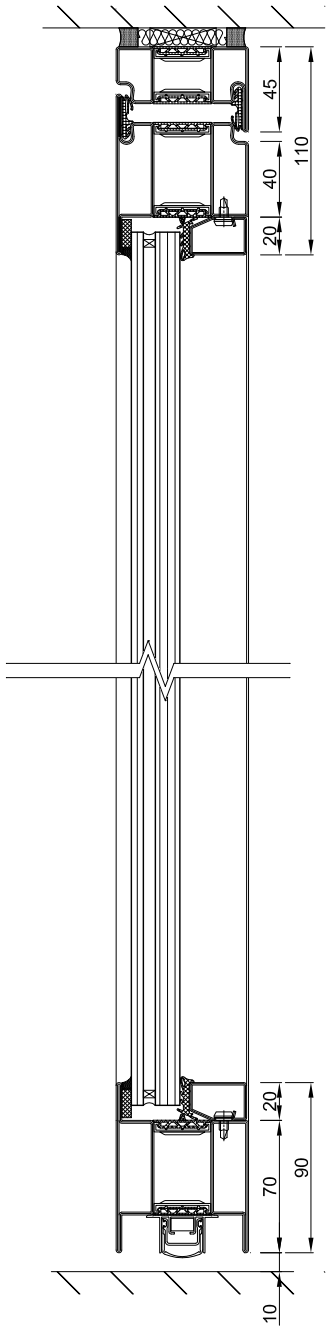
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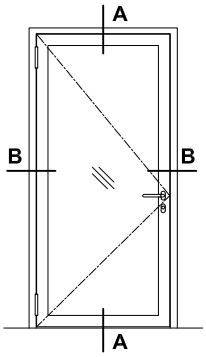
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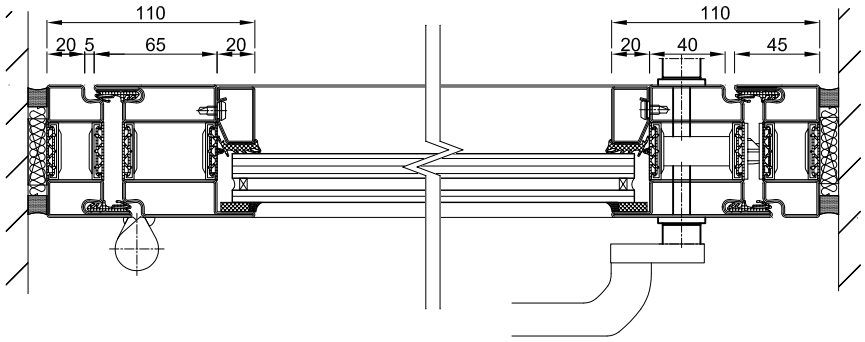
TPS TECHNICAL PROTECTION SYSTEMS

SINGLE LEAF TYPICAL SECTIONS



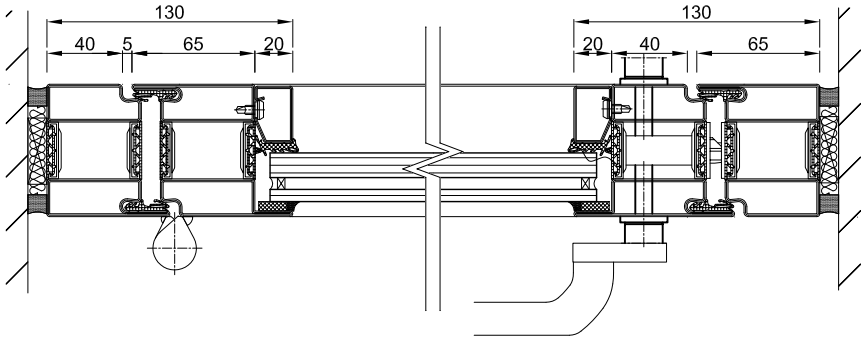
TYPICAL VERTICAL SECTION A - A





TYPICAL HORIZONTAL SECTION B - B

30mm DOOR FRAME PROFILE



TYPICAL HORIZONTAL SECTION B - B

50mm DOOR FRAME PROFILE

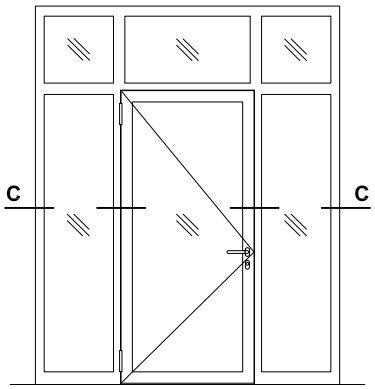
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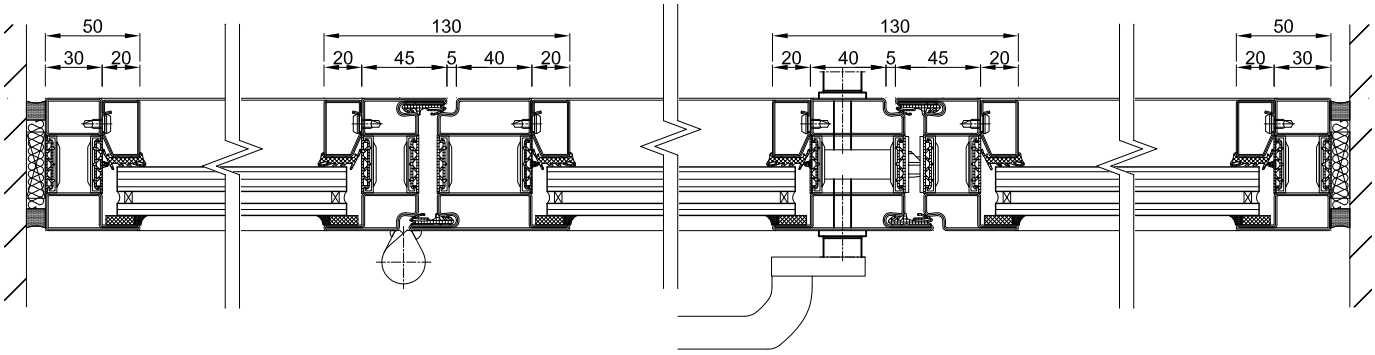
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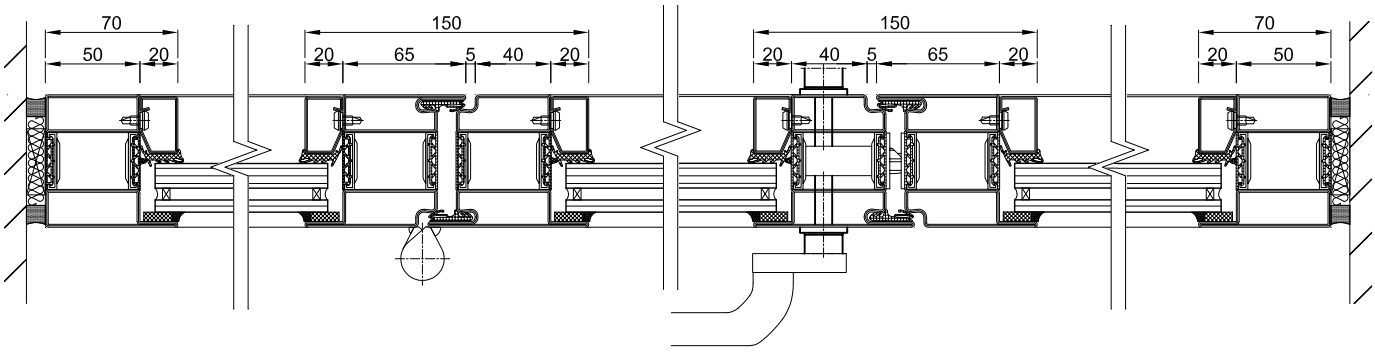
TPS TECHNICAL PROTECTION SYSTEMS

SINGLE LEAF WITH SIDE AND TOP FIXED WINDOWS





TYPICAL HORIZONTAL SECTION C - C **30mm DOOR FRAME PROFILE**



TYPICAL HORIZONTAL SECTION C - C **50mm DOOR FRAME PROFILE**

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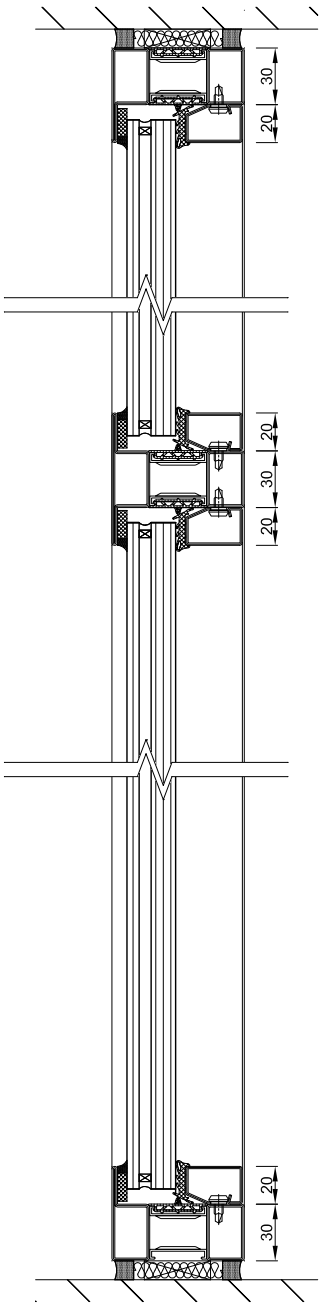
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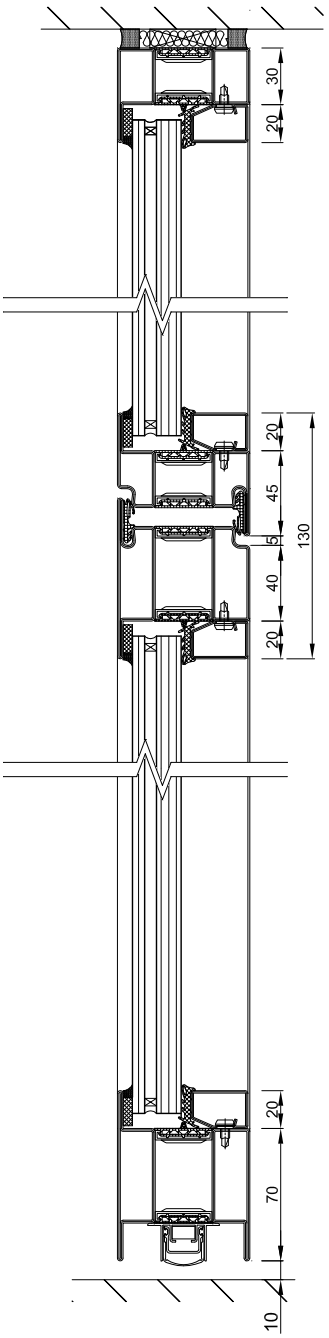
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TPS TECHNICAL PROTECTION SYSTEMS

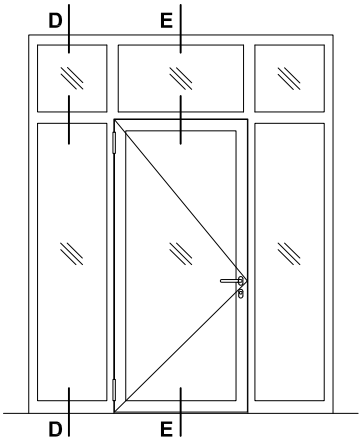
SINGLE LEAF WITH SIDE AND TOP FIXED WINDOWS



TYPICAL VERTICAL SECTION D - D



TYPICAL VERTICAL SECTION E - E



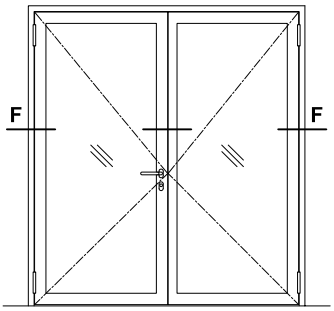
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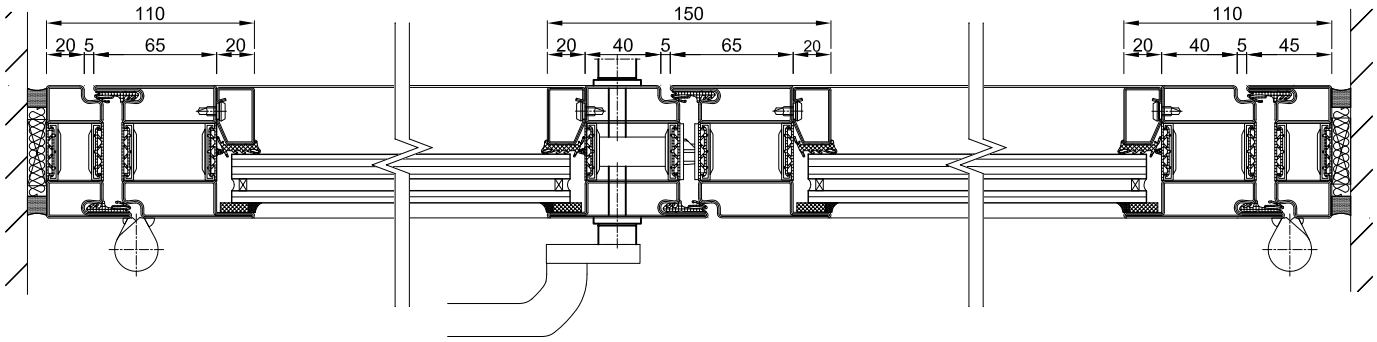
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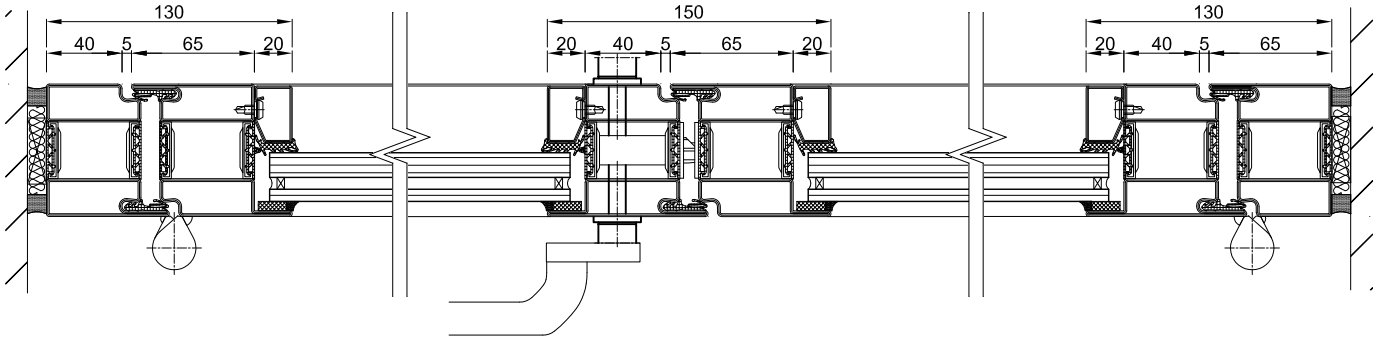
TPS TECHNICAL PROTECTION SYSTEMS

PAIR LEAF TYPICAL SECTIONS





TYPICAL HORIZONTAL SECTION F - F **30mm DOOR FRAME PROFILE**



TYPICAL HORIZONTAL SECTION F - F **50mm DOOR FRAME PROFILE**

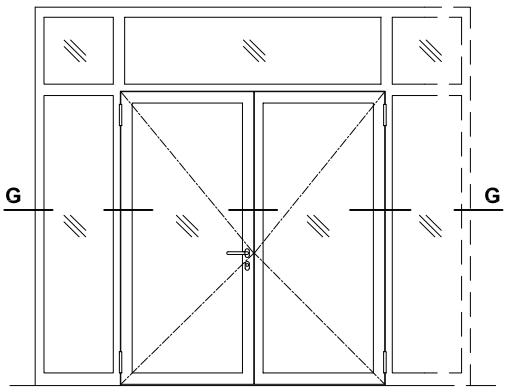
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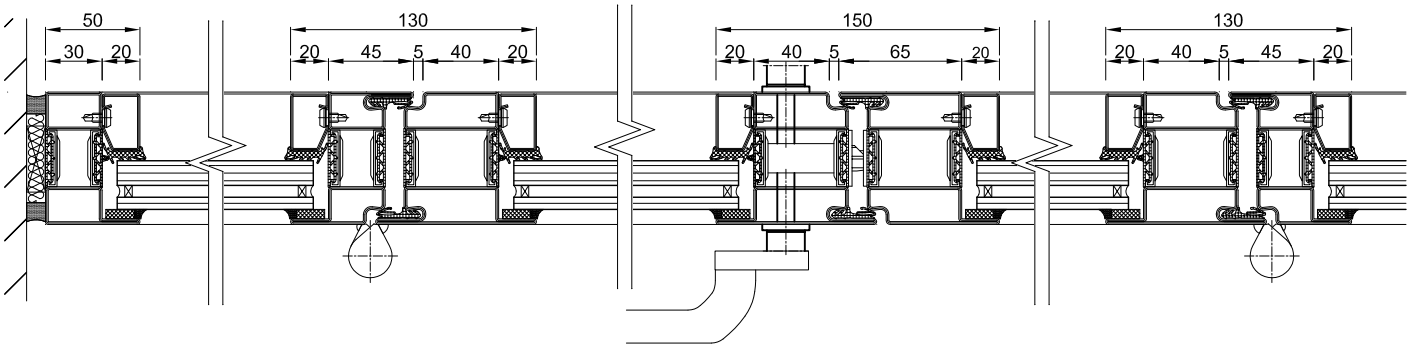
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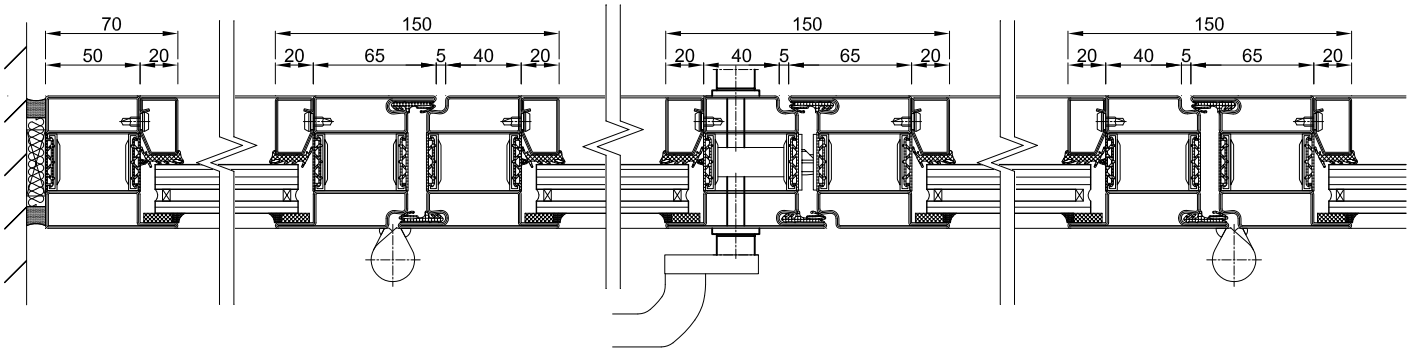
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PAIR LEAF WITH SIDE AND TOP FIXED WINDOWS





TYPICAL HORIZONTAL SECTION G - G **30mm DOOR FRAME PROFILE**

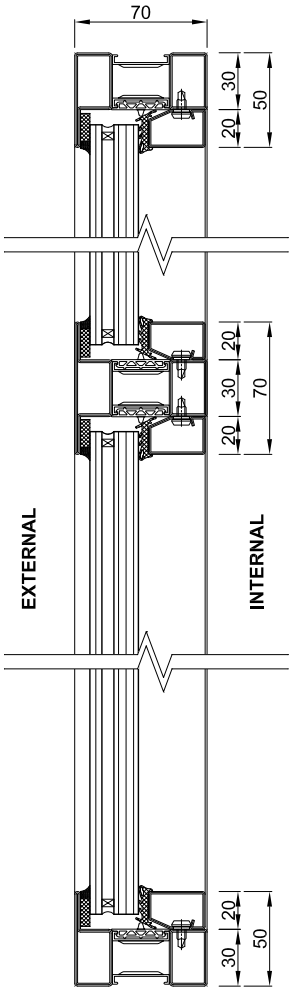


TYPICAL HORIZONTAL SECTION G - G **50mm DOOR FRAME PROFILE**

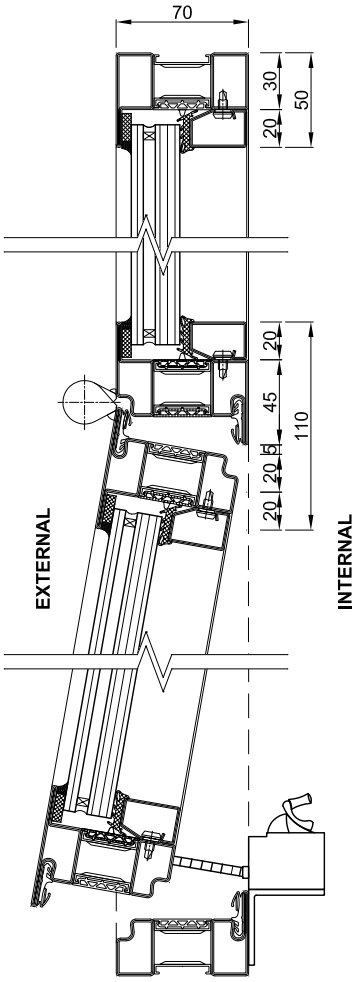
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TPS TECHNICAL PROTECTION SYSTEMS

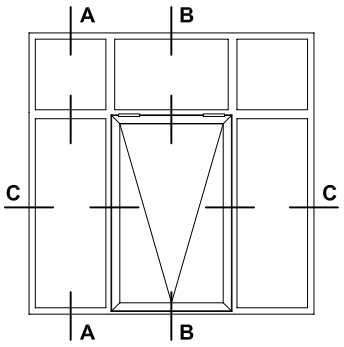
AWNING WINDOW
WITH SIDE AND TOP LITES

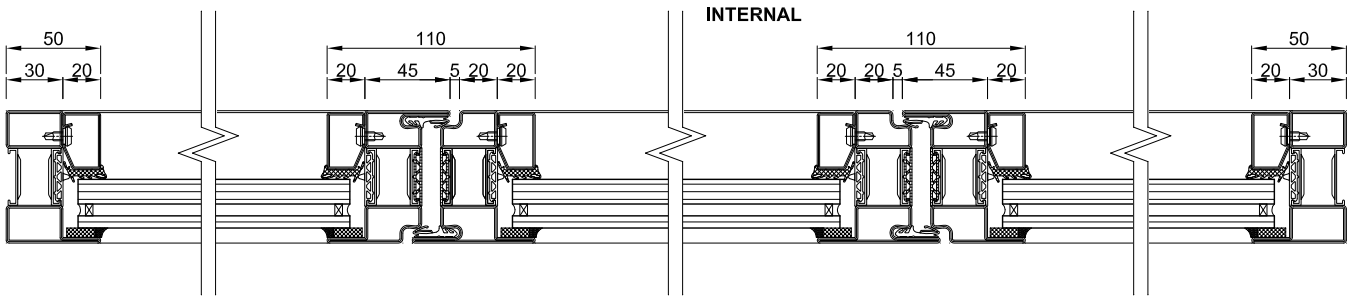


TYPICAL VERTICAL SECTION A - A



TYPICAL VERTICAL SECTION B - B





TYPICAL HORIZONTAL SECTION C - C

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E sales@technicalprotection.com.au

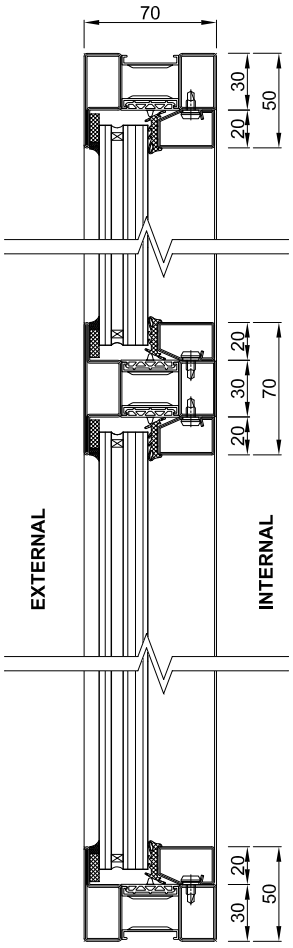
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Date: 11/2026

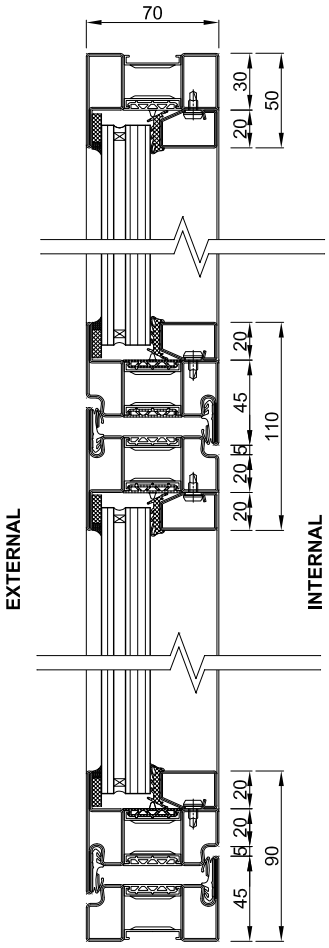
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TPS TECHNICAL PROTECTION SYSTEMS

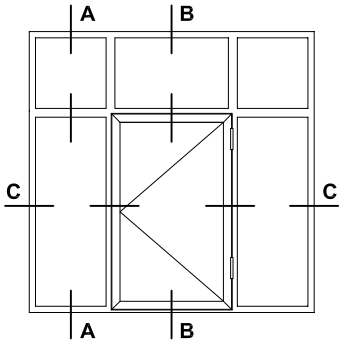
CASEMENT WINDOW
WITH SIDE AND TOP LITES

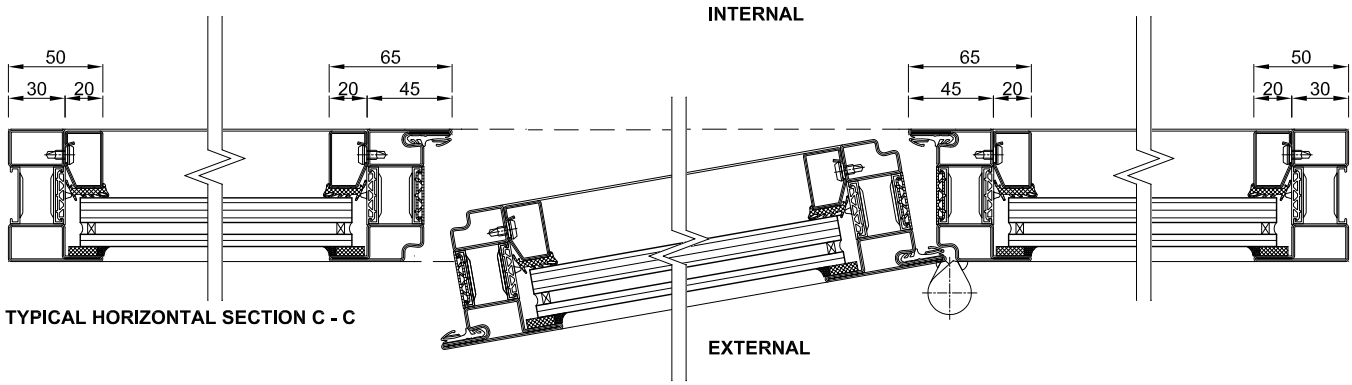


TYPICAL VERTICAL SECTION A - A



TYPICAL VERTICAL SECTION B - B





TYPICAL HORIZONTAL SECTION C - C

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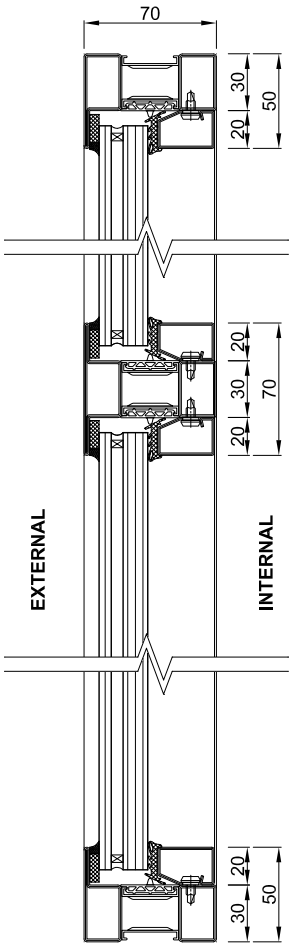
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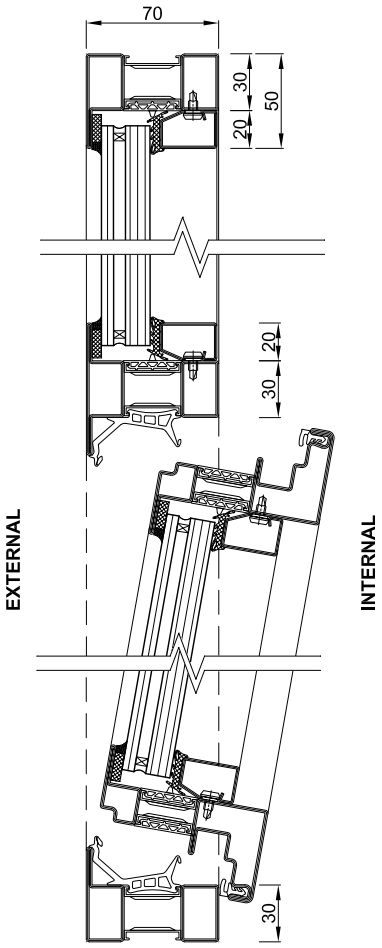
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TPS TECHNICAL PROTECTION SYSTEMS

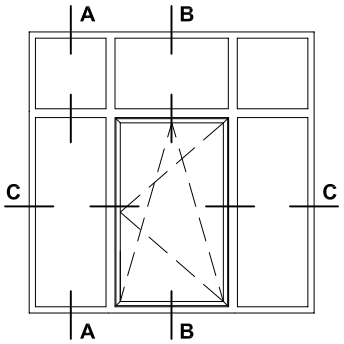
TILT AND TURN WINDOW WITH SIDE AND TOP LITES

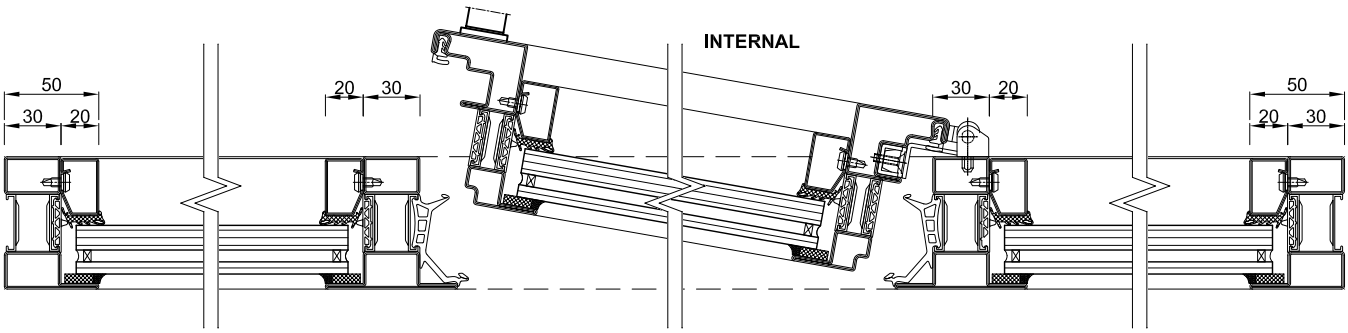


TYPICAL VERTICAL SECTION A - A



TYPICAL VERTICAL SECTION B - B





TYPICAL HORIZONTAL SECTION C - C

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