

# Performance Casement Window PCW02





#### PERFORMANCE CASEMENT WINDOW PCW02

#### **Product**

ALBENestra PCW02

#### **Typical Technical Features**

Nominal Wall Thickness : 1.35mm Standard Frame Depth : 40.00mm

: 40.00mm, 80.00mm & 100.00mm Mullion Depth

: 10.00mm - 34.00mm Glazing Gap Locking System : Single-point & Multipoint

Surface Finish : Overlap : Friction Stay Hinges

Corner Joints Mitre Joints With Brackets



#### **Performance Test**

This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

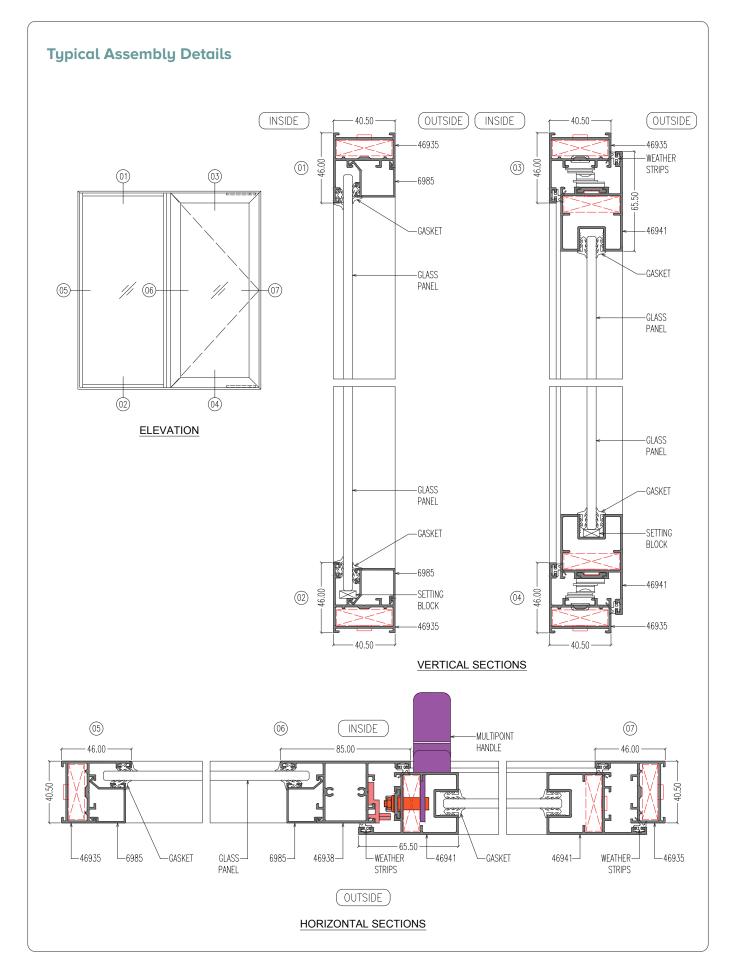
1. 1500Pa windload Passed 2. 300Pa air leakage Passed 3. 450Pa water infiltration : Passed

Note: Test report available upon request.

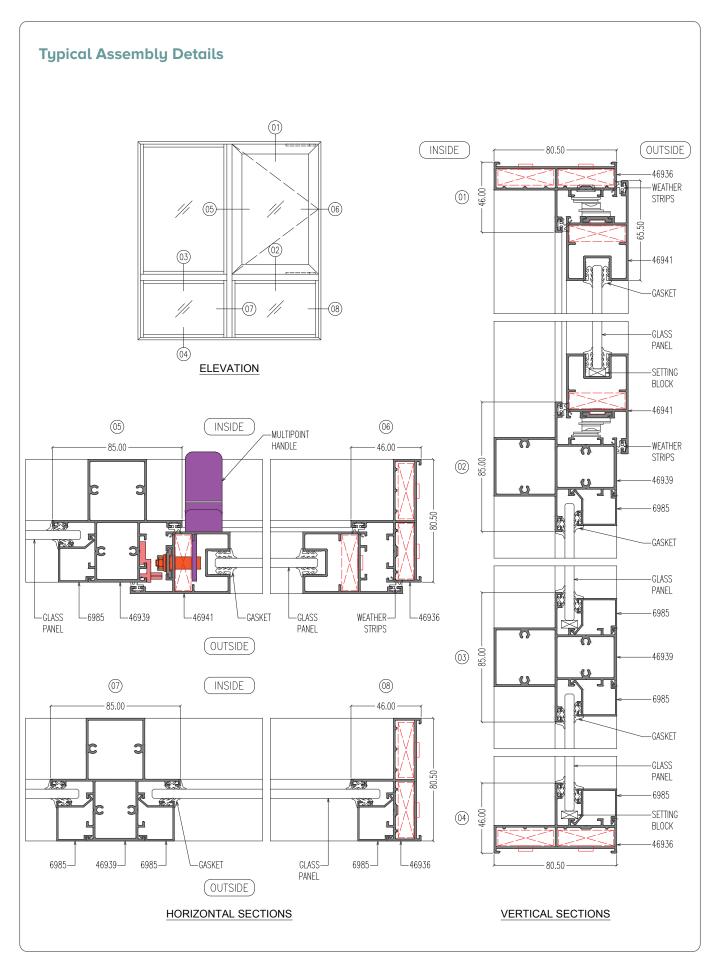




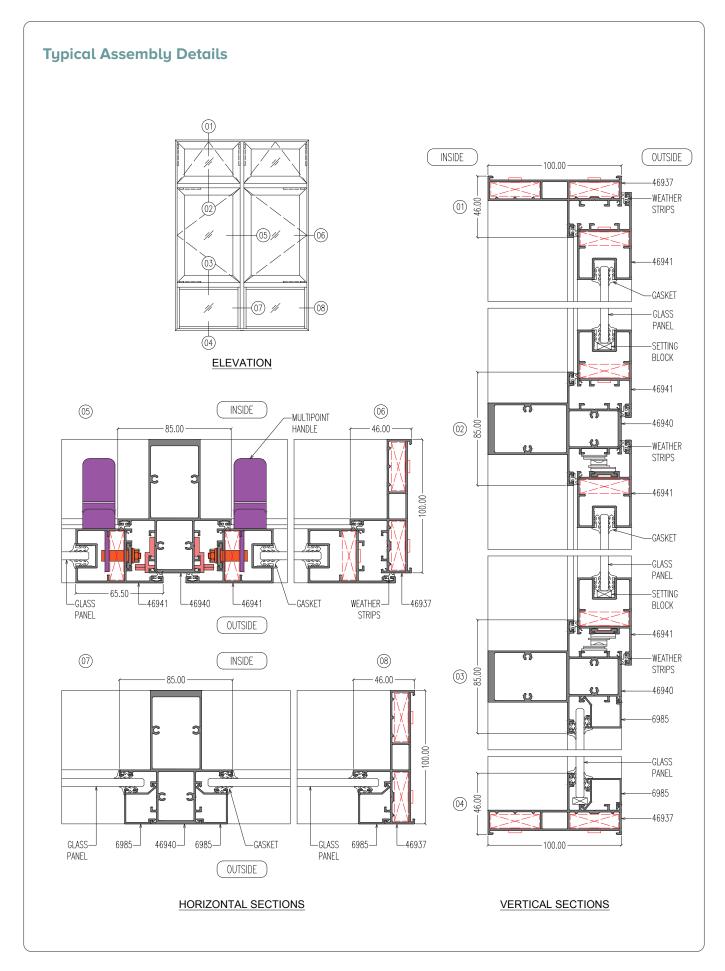












## PERFORMANCE CASEMENT WINDOW PCW02

#### **Wind Load Chart**

X 930 X

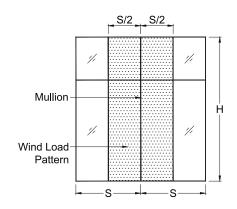
Note:

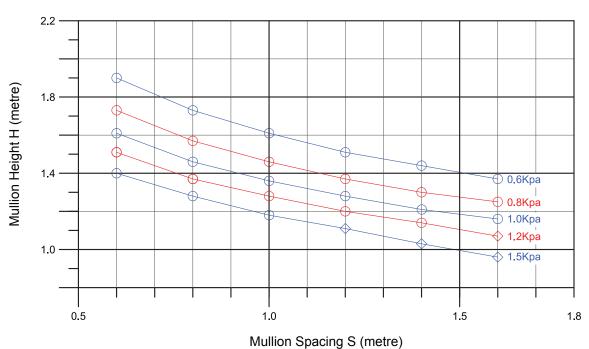
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity :  $70 \times 10^9 \text{ N/m}^2$ Design bend. stress :  $1.25 \times 67^6 \text{ N/m}^2$ 

Deflection limit : Span/<sub>175</sub>, up to max. 20mm
Nature of anchor : Simply supported at both ends

#### Typical configuration of window:





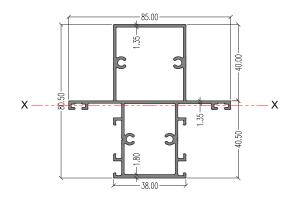
#### Note:

- O Deflection limit governs
- Design bending stress governs
- :- Buckling has not been taken into account in this chart
- :- This windload chart is solely for reference only

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#### **Wind Load Chart**

**MULLION SECTION** : 46939 Alum. alloy : 6063-T5 Moment of inertia : 33.0 cm<sup>4</sup> Mod. of section  $Zxx : 7.7 \text{ cm}^3$ 

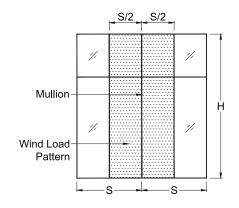


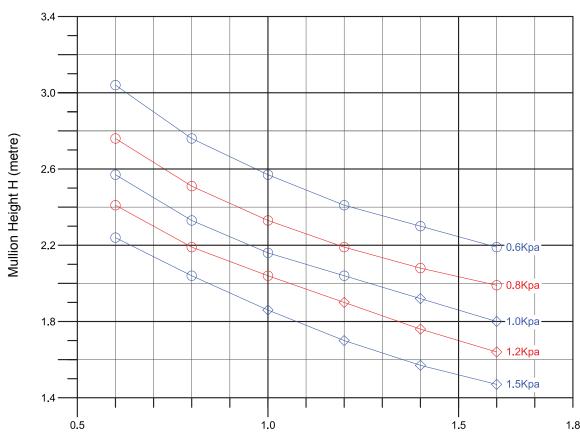
Suffix xx denotes axis perpendicular to wind load

: 70 x 10<sup>9</sup> N/m<sup>2</sup> Mod. of elasticity : 1.25 x 67<sup>6</sup> N/m<sup>2</sup> Design bend. stress

:  $^{\mathrm{Span}}/_{\mathrm{175}},$  up to max. 20mm Deflection limit : Simply supported at both ends Nature of anchor

#### Typical configuration of window:





Mullion Spacing S (metre)

 $\bigcirc$ Deflection limit governs

Note:

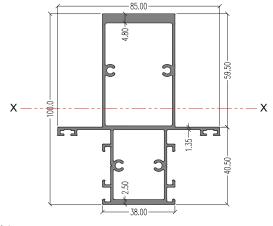
Design bending stress governs

:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

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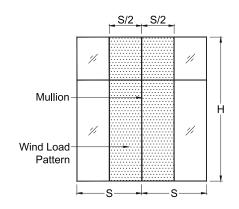
#### **Wind Load Chart**

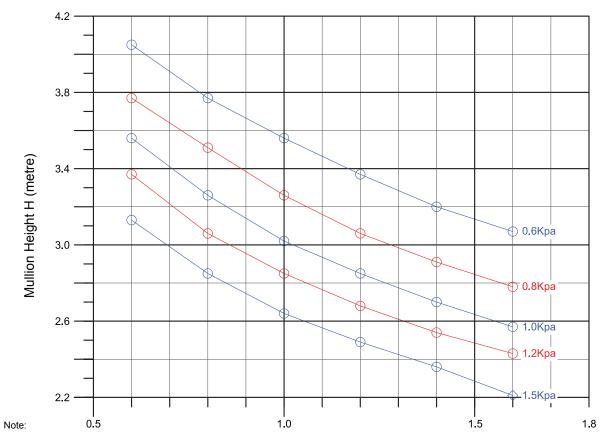


Note: Suffix xx denotes axis perpendicular to wind load Mod. of elasticity :  $70 \times 10^9 \text{ N/m}^2$ Design bend. stress :  $1.25 \times 67^6 \text{ N/m}^2$ 

Deflection limit : Span/<sub>175</sub>, up to max. 20mm
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#### Typical configuration of window:



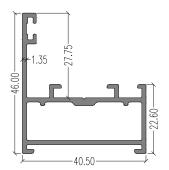


Mullion Spacing S (metre)

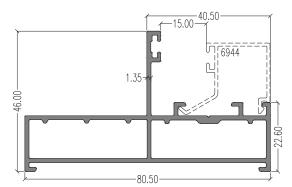
- O Deflection limit governs
- Design bending stress governs
- :- Buckling has not been taken into account in this chart
- :- This windload chart is solely for reference only



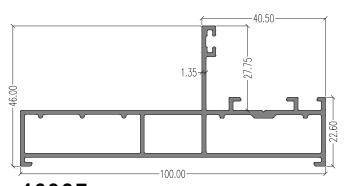
#### **Sectional Details**



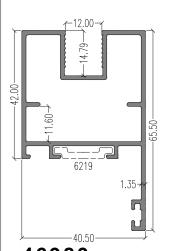
**46935** (Outer) LW: 0.665 kg/m AP: 241.18 mm



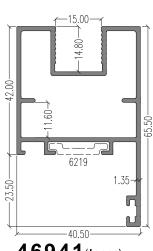
**46936** (Outer) LW: 1.004 kg/m AP: 320.96 mm



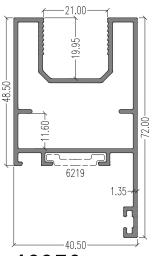
**46937** (Outer) LW: 1.194 kg/m AP: 359.95 mm



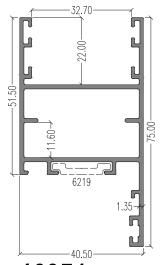
**46983**(Inner) LW: 0.896 kg/m AP: 299.52 mm



**46941**(Inner) LW: 0.897 kg/m AP: 300.85 mm



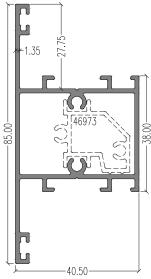
**46970** (Inner) LW: 0.975 kg/m AP: 319.32 mm



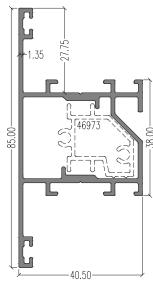
**46971**(Inner) LW: 0.935 kg/m AP: 388.34 mm



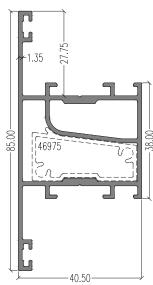
#### **Sectional Details**



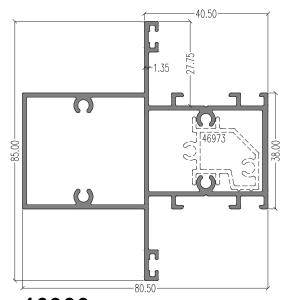
**46938** (Mullion) LW: 0.988 kg/m AP: 359.07 mm Ixx: 14.82 cm<sup>4</sup> Iyy: 8.159 cm<sup>4</sup>



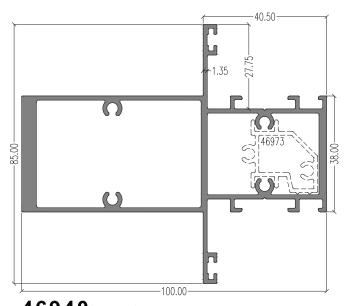
**46972** (Transom) LW: 1.071 kg/m AP: 380.47 mm Ixx: 15.02 cm<sup>4</sup> lyy: 8.121 cm4



**46974**(Transom) LW: 1.113 kg/m AP: 359.07 mm Ixx: 14.94 cm<sup>4</sup> Iyy: 8.753 cm<sup>4</sup>



**46939** (Mullion) LW: 1.524 kg/m AP: 438.85 mm Ixx: 19.73 cm4 lyy: 32.89 cm4

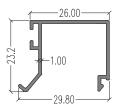


**46940**(Mullion) LW: 2.112 kg/m AP: 477.85 mm Ixx: 23.13 cm<sup>4</sup> lyy: 89.37 cm4

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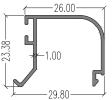
#### **Sectional Details**

#### 10mm Gap



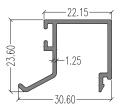
**6985**(Beading) LW: 0.231 kg/m AP: 169.79 mm

### 10mm Gap



**6986** (Beading) LW: 0.233 kg/m AP: 163.56 mm

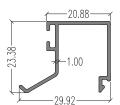
#### 14mm Gap



**6996** (Beading)

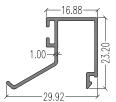
LW: 0.286 kg/m AP: 168.80 mm

#### 15mm Gap



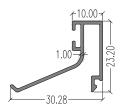
**6944**(Beading) LW: 0.228 kg/m AP: 166.07 mm

#### 19mm Gap



**46902**(Beading) LW: 0.224 kg/m AP: 162.69 mm

#### 26mm Gap



**6997** (Beading) LW: 0.219 kg/m

AP: 159.37 mm

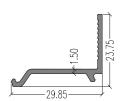
#### 32mm Gap



**6218**(Beading)

LW: 0.179 kg/m AP: 101.90 mm

#### 34mm Gap



**46910** (Beading) LW: 0.213 kg/m AP: 108.69 mm

# 30.14

**46943**(Bracket) LW: 0.450 kg/m AP: 166.62 mm

Ixx: 1.286 cm<sup>4</sup> Tyy: 1.395 cm4 (For 46938, 46939 &

46940)

# -6.50 24.75

**46973** (Bracket) LW: 0.350 kg/m AP: 122.61 mm

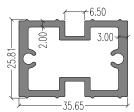
Ixx: 0.596 cm<sup>4</sup> lyy: 0.791 cm4

# 34.30

**46975** (Bracket) LW: 0.354 kg/m

AP: 100.81 mm Ixx: 0.406 cm4 lyy: 1.884 cm4

(For 46974)



**46942**(Stiffener) LW: 0.798 kg/m

AP: 142.55 mm Ixx: 2.313 cm<sup>4</sup> lyy: 4.952 cm4



**6219** LW: 0.117 kg/m AP: 45.58 mm (For Powder Coated & PVDF Finish Only)



6987

LW: 0.140 kg/m AP: 49.24 mm (For Anodised Finish Only)



## PERFORMANCE CASEMENT WINDOW PCW02

#### **Accessories**









CH200 Single-Point



MPH3903 Multi-Point Single Fork



MPH3707A Multi-Point Single/Double Fork



MPH3701A Multi-Point Single/Double Fork





MP930





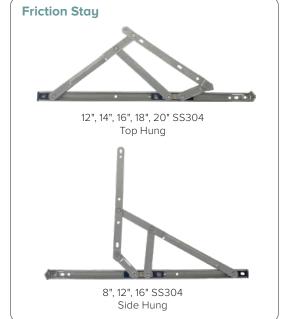


MP943KS (L30mm)





PLG5904 Suntoprene (100m / roll)







MP950 (10mm, 12mm)









#### **HEAD OFFICE & FACTORY**

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang, 43700 Beranang, Selangor Darul Ehsan, Malaysia.

T:+603-8725 8822 (Gen)
E:enquiry@lbalum.com.my
W:www.lbalum.com

+603-8725 8828 (Gen) +603-8725 8866 (Export



