PLANNING SERVICES
ADUR & WORTHING
PLAN | WMDM 11&01 F1
VALID DATE | 7 AUG 2018

Bi-fold
BS7.0

Optio

An intelligent combination of form and function, our highly versatile and market-leading Bi-fold sliding door system gives you maximum control over the style and operation of the doors.

Multiple panels can be added to accommodate the design specification of your project. Mix and match to open in or out as required.

The system also boasts a unique flush threshold profile that allows for ease of access and panels that are fully open.

Design features

- Certified under the Secured By Design scheme
- Tested to BA2 3A
- Nylon: pop-on handle that allows for maximum door opening and panel to stack evenly
- Four stainless style rollers to ensure smooth and consistent operation
- Chamfered and square bead option
- Chatsal 58mm – 70mm
- Available in a range of opening configurations
- Available with heavy duty rollers: BS7.0 HD
- Available in a range of style or dual colour and anodised finishes
- Low threshold 15mm step height
- All configurations available open in and open out
- Chamfered and square panel option
- Profile top and bottom of the interlock for enhanced security
- Dedicated pull down handle for convenient operation
- Double track interlock allowing energy efficient

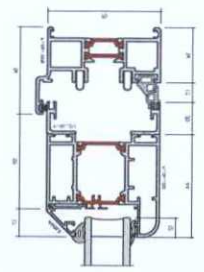
Options

- Chamfered and square bead option
- Chatsal 58mm – 70mm
- Available in a range of opening configurations
- Available with heavy duty rollers: BS7.0 HD
- Low threshold 15mm step height
- All configurations available open in and open out
- Chamfered and square panel option
- Dual colour option
- Multi-point locking
- Chatsal interface

Specification

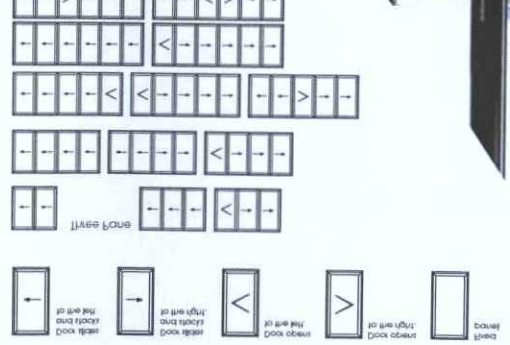
Performance and accreditation	BS7.0	BS7.0 HD
U-value (double glazing)	1.3 W/m²K	1.3 W/m²K
U-value (triple glazing)	1.1 W/m²K	1.1 W/m²K
Air infiltration (Pa) (Horizontal interlock)	Class 4 (600 Pa)	N/A
Water infiltration (Pa) (Horizontal interlock)	Class A7 (600 Pa)	N/A
Wind load (Pa)	Class A3 (2400 Pa)	N/A
Security	BA2 3A	N/A
3rd party certification	Q-mark	N/A
Secured by design	Yes	N/A
Configuration		
Opening	Open in and open out	Open in and open out
3-50	✓	✓
3-04	✓	✓
3-51	✓	✓
4-40	✓	✓
4-52	✓	✓
4-53	✓	✓
4-54	✓	✓
5-20	✓	✓
5-21	✓	✓
5-22	✓	✓
5-23	✓	✓
5-24	✓	✓
6-00	✓	✓
6-25	✓	✓
6-26	✓	✓
6-27	✓	✓
6-28	✓	✓
6-29	✓	✓
7-50	✓	✓
7-51	✓	✓
7-52	✓	✓
8-00	✓	✓
Design features		
Max Inny Weight	100 kg	150 kg
Sightline (Head)	110 mm	110 mm
Sightline (Cill)	130 mm	130 mm
Sightline (Jamb)	110 mm	110 mm
Sightline (Meeting Stile)	140 mm	140 mm
Maximum leaf height	3400 mm	3400 mm
Exterior features		
Frame depth	70mm	70mm
Dual colour option	✓	✓
Multi-point locking	✓	✓
Chatsal option	Internal bead	Internal bead
Chatsal interface	58mm - 70mm	58mm - 70mm

CAD cross section



BS7.0 configurations

Key





Casement
28BM

Optio

Built to the highest UK standards, this effective and high performance solution offers clean lines and advanced functionality.

Available in either 28mm or 35mm frame depth, casement windows are the perfect choice for both residential and light commercial projects. Whether used to build or renovation, windows can also be made of a wide variety of materials and finishes to suit any project in style or budget.

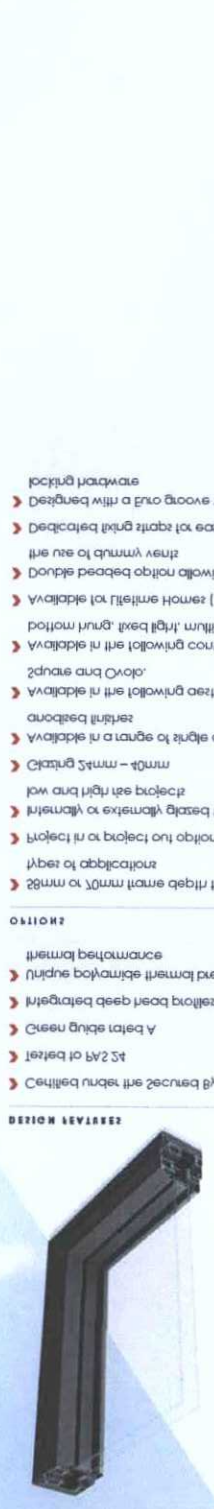
Design features

- 28mm or 35mm frame depth to accommodate entry layer of application
- Project in or project out option
- Internally or externally beaded to accommodate low and high tab projects
- Glazing 24mm – 40mm
- Available in a range of style or dual colors and beaded finishes
- Available in the following configuration: gav, Chamfered, sqnue and Ovolo.
- Available in the following configuration: top hung: side hung, bottom hung: fixed light, multilight and French casement
- Available for Flatline Homez (FL)
- Double beaded option allowing for internal glazing uniformity for use on chimney array
- Dedicated inner gasket for ease of installation
- Designed with a dual groove to accommodate standard locking hardware

Options

- Ovolo
- Chamfered
- Sqnue





Design features

- Certified under the Secured by Design scheme
- Tested to PAS 24
- Offers clean lines and advanced functionality.
- Integrated deep bead brooker for ease of flickle ventilation
- Available in either 28mm or 35mm frame depth
- Ovolo bead profile
- Chamfered bead profile
- Sqnue bead profile
- Gav bead profile

Aesthetics

Glazing thickness	24mm - 40mm
Glazing bead profile (frame to vent)	17mm
Glazing bead profile (vent to vent/mullion)	18mm
Glazing bead profile (fixed light)	24mm

Colour options

Dual colors option	✓
Multi-point locking	✓
Glazing bead option	Internally and externally beaded
Glazing thickness	24mm - 40mm
Frame depth	28mm and 35mm

Size limits

Top hung (max weight)	180 kg
Side hung (max weight)	22 kg
Bottom hung (max weight)	30 kg (Hinges)
Fixed light (max weight)	250 kg

Configuration

Opening	Open out
Top hung	✓
Side hung	✓
Bottom hung	✓
Fixed light	✓
Multilight	✓
French casement	✓

Performance and accreditation

Overall openings	
U-value (double glazing)	1.4 W/m²K
U-value (triple glazing)	1.3 W/m²K
Window energy rating (WER)	B - C
Overall Uwidth rating	A rated
Acoustic performance (dB)	Rw (C;Ctr) 35 (-1;-2) dB
Air tightness (m³/hr)	Class 4 (600 m³/h)
Water tightness (Pa)	Class 9A (600 m³/h)
Wind load (Pa)	Class E2400 (2400 Pa)
Secured by design	PAS 24
3rd party certification	Q-mark
Secured by design	yes

Glazing

Triple glazed units - Warmedge are calculated using BFRC OAM - 1001 .2 Part - 1 (2020) .2 Part - 1 (2020) + Thermo Shield Plus Emissivity 0.03 Argon Gap 16mm Overall U-Value 0.8 W/m²K	
Double glazed units - Warmedge are calculated using BFRC OAM - 1001 .2 Part - 1 (2020) .2 Part - 1 (2020) + Thermo Shield Plus Emissivity 0.03 Argon Gap 16mm Overall U-Value 1.3 W/m²K	
Other Glass options - Obscured, textured, leaded glass options available	
Acoustic performance - 35dB - tested using BS EN ISO 10140-2:2010 and BS EN ISO 717-1:2013	
Secured by Design - Optional extra	

Hardware

Espag locking system	Espag locking system
Top hung (max weight) - tested to BS EN 1627:2011 RC2 standard	180 kg
Side hung (max weight) - tested to BS EN 1627:2011 RC2 standard	100 kg
Bottom hung (max weight) - tested to BS EN 1627:2011 RC2 standard	100 kg

Specifications

CAD cross sections

