

FIBRE GLASS WINDOWS

Fibreglass Windows – Durability and Sustainability

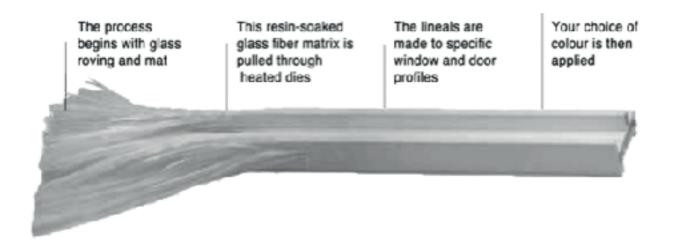
think future, think BOAVISTA!



Boavista Windows is the first European envelope systems brand focused on producing Fibreglass building solutions with great design.

what is fibreglass?

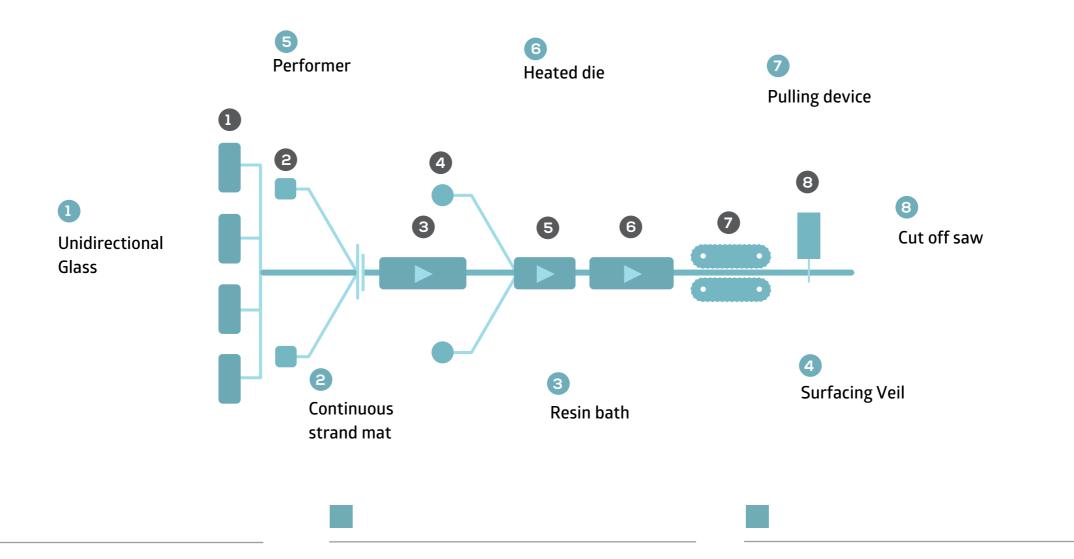
fibreglass | what is it?



Fibreglass, the common name for GRP (Glass Reinforced Polymers), is a composite material that combines the best properties of each of its individual components. Well known for its versatility, fibreglass presents a wide application range, from boats to wind turbines.

In the construction industry, fibreglass is used widely when the situation demands a stable, durable and resistant material.

fibreglass | pultrusion



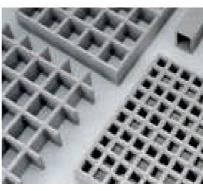
The profiles used by BOAVISTA for its windows and doors are made using a technology called pultrusion.

This technology is a fully automated and continuous process that produces profiles with constant cross section. It is also highly efficient for it only consumes 0,07 kW to produce a linear meter of profile (approx. 1kg).

fibreglass | examples of use



Structural Profiles



Decks



Bridge, Kolding Denmark

Dessalination Central, Dubai



Water Treatment Center

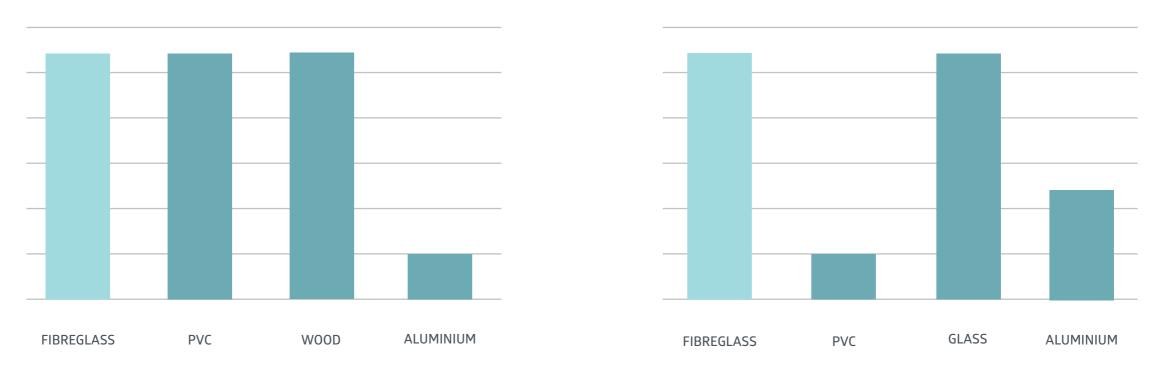




Swimming pool

fibreglass | pultruded profiles

Thermal Resistance

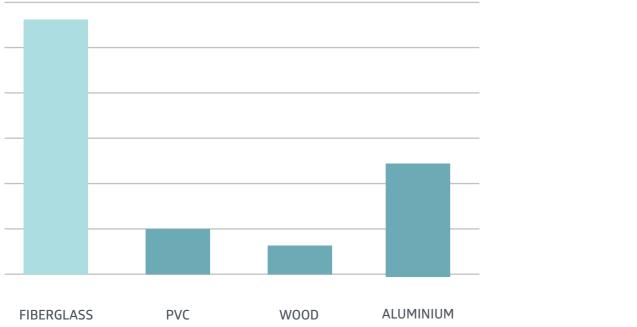


Dimensional Stability

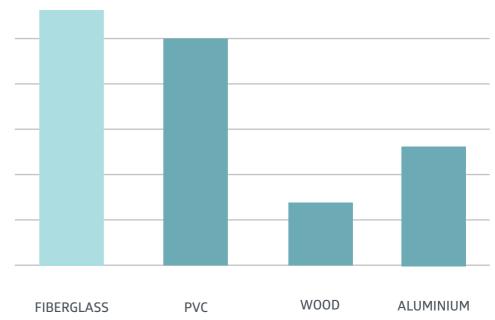
- Iow thermal conductivity
- low electric and acoustic conductivity
- high dimensional stability very similar to glass
- not fragile at low temperatures

fibreglass | pultruded profiles

Resistance/Weight Ratio



Resistance to Corrosion/ Rot



- Excelletn resistance/ weight ratio
- excellent resistance to rot
- excellent resistance to corrosion
- excellent mechanical properties

Boavista Systems

- BWSL 45 Sliding
- BWS 35 Sash
- BWTT 60 Tilt & Turn
- BWDS 35 Double Sash
- BWO 60 Casement Windows

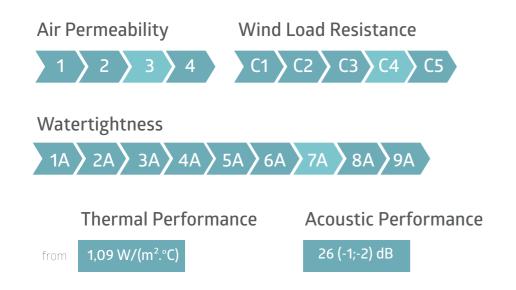


BWSL 45 Sliding

boavista Systems

Boavista Windows Sliding 45mm sash width BWSL 45 Sliding

- Based on a modular system that allows multiple configurations;
- Sashes up to 250 Kg (ex: 2,2 x 2,85 m);
- Low frame compatible to flush installations;
- Versatile lock upgradable to multi-point locking;









BWSL 45 Sliding Door

Project: Residential project in Oxfordshire, England System: BWSLD45 Finish: RAL 9005 Textured Black



BWSL 45 Sliding Door

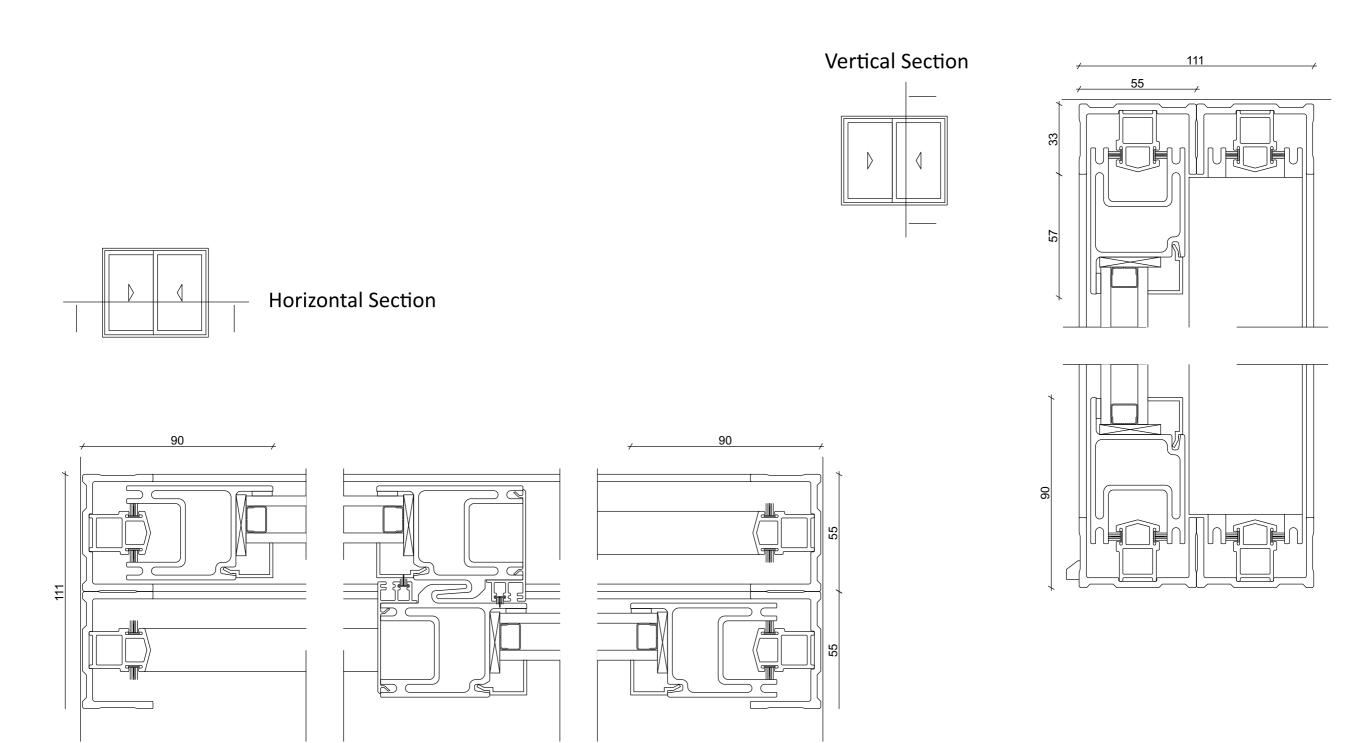
Project: Residential project in Southampton, England System: Sliding Finish: RAL 7021 – Textured Grey



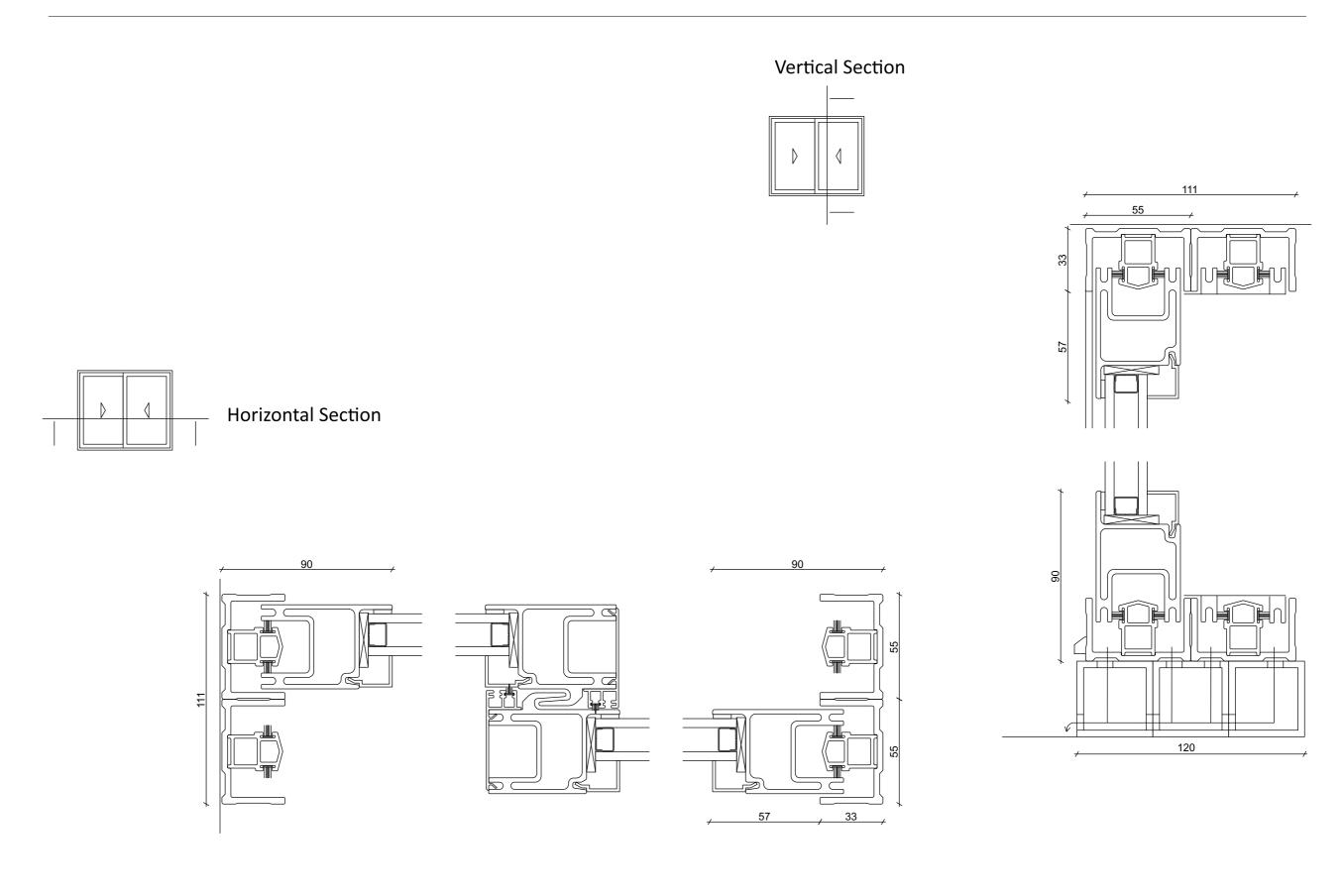


BWSL 45 Sliding Window

Project: Residential project in Porto, Portugal System: Sliding Finish: RAL 9016 – Matt White



BWSLD45 - 2R MM

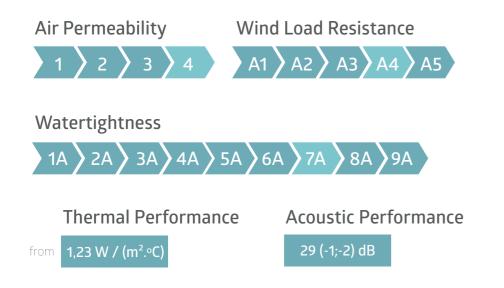


BWS 35 Sash

boavista systems

Boavista Windows Sash 35mm sash width BWS 35 Sash

- Window with excellent ITT results, among the best of its class;
- Fixed upper sash and operable lower sash;
- Twin spring system makes it easy to use;
- Operable sash can be tilted for exterior cleaning;









BWS 35 Sash Window

Project: Residential project in Ontario, Canada System: BWS35 Finish: RAL 9016 – Matt black

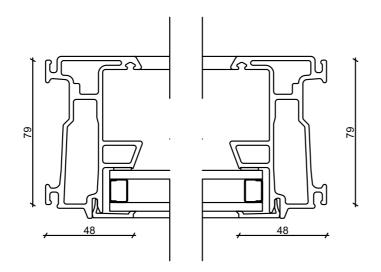


BWS 35 Sash Window

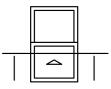
Project: Refurbishment project in Faro, Portugal System: BWS35 Finish: RAL 9016 - Matt White

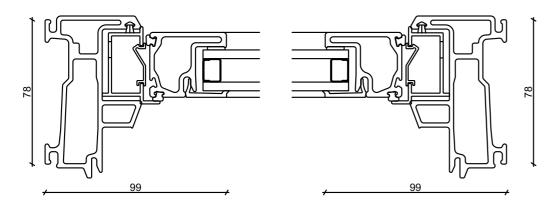
Technical Drawing

Horizontal Section

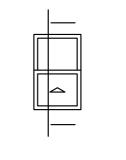


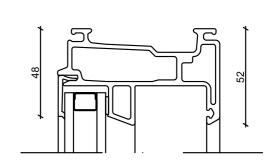
Horizontal Section

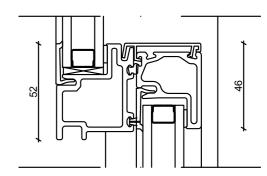


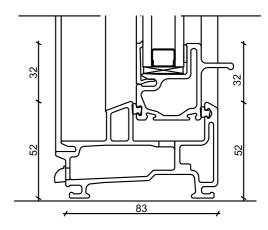


Vertical Section









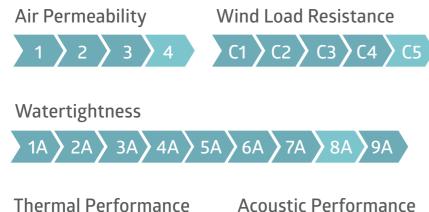
BWTT 60 tilt & turn

boavista systems

Boavista Windows tilt & turn 60mm sash width

BWTT 60 - tilt & turn

- Most versatile window system with multiple configurations and operating modes;
- Compatible with other BOAVISTA series;
- Standard hidden hinge system: perfect aesthetic and optimum functionality;



from 0,74 W / (m².°C)









BWTT 60 - tilt & turn Window

Project: Residential project in Porto, Portugal System: BWTT60 + BWSL45 – Tilt & Turn and Sliding Finish: RAL 9016 – Matt White





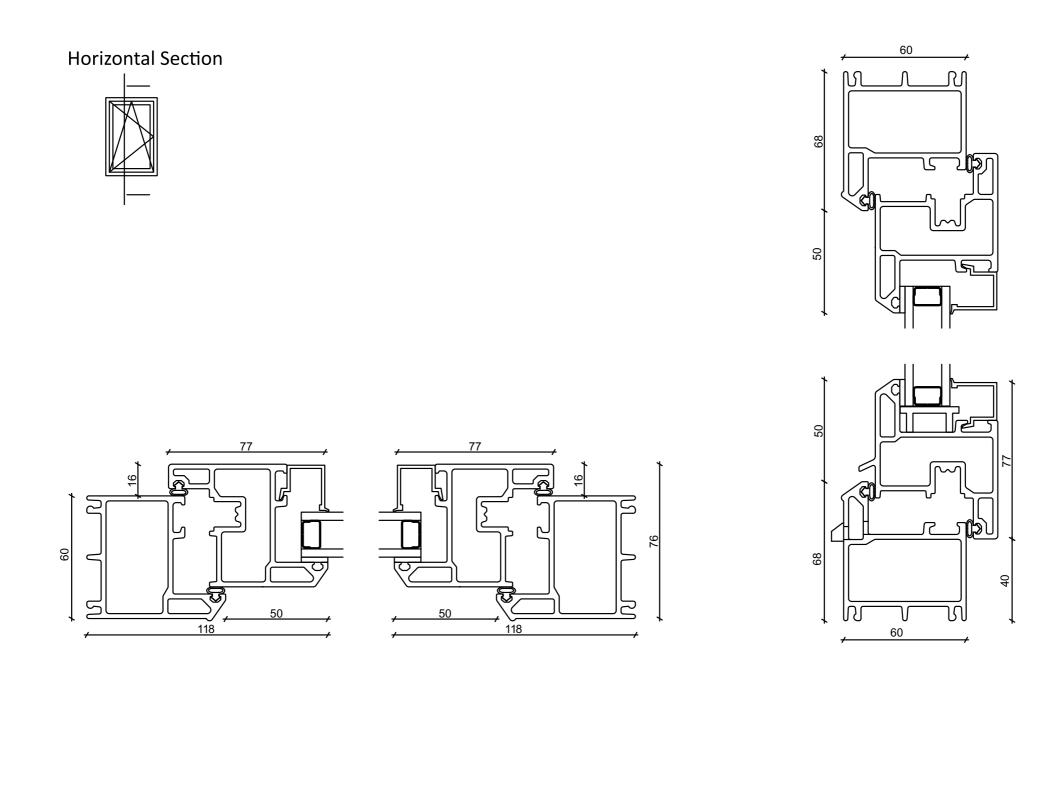
BWTT 60 - tilt & turn Window

Project: Refurbishment project in Faro, Portugal System: BWTT60 Finish: RAL 9016 - Matt White



BWTT 60 - tilt & turn Window

Project: Residential project in Porto, Portugal System: BWTT60 – Fixed and Tilt & Turn Finish: RAL 8014 – Matt Brown



BWDS 35 Double Sash Window

boavista systems

Boavista Windows Double Sash 35mm sash width

BWDS 35 - Double Sash Window

- Both panels slide;
- The bottom panel can be used as a balustrade;
- Great minimal looks;





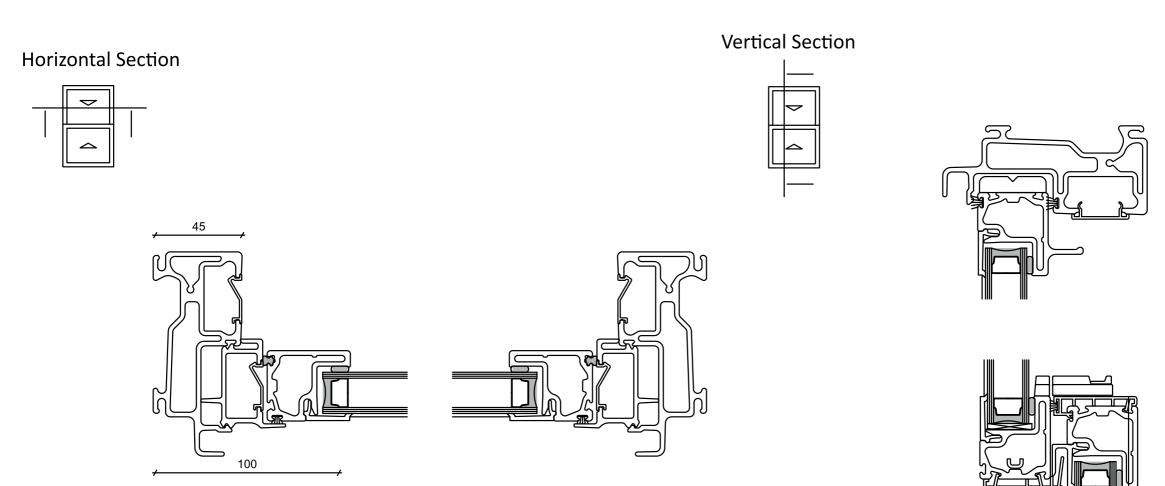




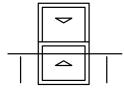
BWDS 35 - Double Sash Window

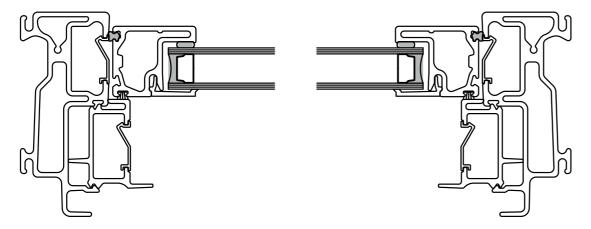
Project: Commercial project in Oxfordshire, England System: BWDS35 – Double Sash Dimensions: 100mm x 2000mm; Finish: RAL 7021 – Textured grey

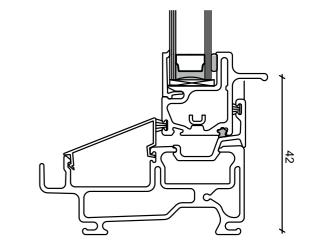
Technical Drawing



Horizontal Section







47

BWO 60 Outward Opening

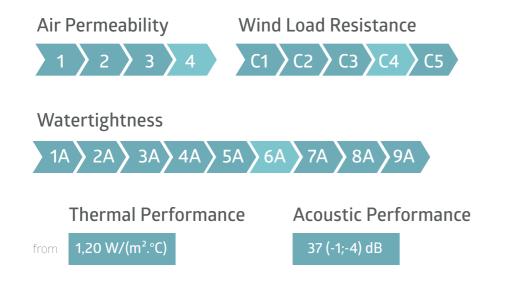
boavista systems

Boavista Windows Outward 60mm sash width

BWO 60 - Outward Opening Window

-With slim frame, for a minimal look;

-Outward side hung opening or top hung projecting window.









BWO 60 - Outward Opening Window

Project: Residential Project, Ontario, Canada System: BWO60 Finish: RAL 9016 – Matt black

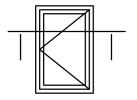


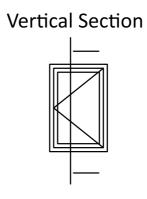
BWO 60 - Outward Opening Window

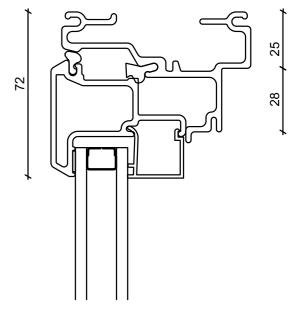
Project: Residential Project, Ontario, Canada System: BWO60 Finish: RAL 9016 – Matt black

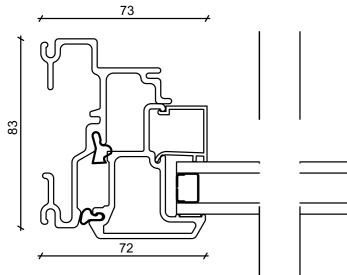
BW060 - SO

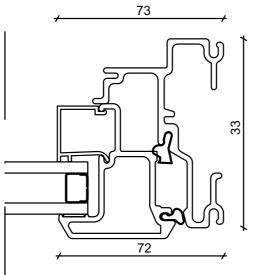
Horizontal Section

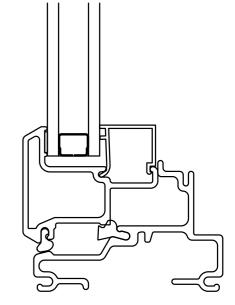












Energy Rating for windows

- How does it work?
- Boavista results.



Energy Rating for windows

How does it work?

The Window Energy Rating system follows a similar pattern to appliance energy labels, with windows being rated between A or A+ (the best) and G (the worst).

It can be used by consumers and specifiers to compare in a simple and quick way the energy efficiency of a fenestration.

Windows can account for over 25% of a heating bill and a difference in energy saving between an A or B-rated window could be an additional 6.5% on your energy bills.



IANEL 45

BOAVISTA WINDOWS

VIDRO: Consultar ID CLASSE» em www.classemails.pt VIDRO: Consultar ID CLASSE» em www.classemails.pt



CLASSE+



Energy Rating for windows

Certifications





JANELAS















Finishes

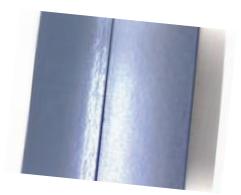


Finishes

Available Finishes

All profiles can be painted matt or texturized to any RAL colour, always following Qualicoat standards.







The choices we make define who we are. Choose smarter, think ahead! Choose BOAVISTA



Boavista Windows Rua Santa Apolónia 274 Armazém M 4410 - 022 Serzedo - V.N.Gaia tel/fax +351 222 080 777 hello@fwdcomposites.com