

PREMIUM COLLECTION

AUSTRALIA'S PREMIUM STEEL
SECTIONAL GARAGE DOOR

Windpanel™

Protect
your home



When you purchase the new B&D Windpanel sectional garage door, you're buying peace of mind. Independently certified for use in all cyclone-affected regions throughout Australia, the B&D Windpanel is capable of withstanding wind speeds of up to 290km/hr.

Featuring maximum strength, durability and performance, the B&D Windpanel provides homeowners with the protection required for their home.

CERTIFIED FOR USE IN ALL
CYCLONE AFFECTED REGIONS

MAXIMUM DURABILITY & STRENGTH
ENHANCED DOOR REINFORCEMENT
INDEPENDENTLY TESTED & CERTIFIED
ADDED PROTECTION FOR YOUR HOME



Doors & Openers®

THERE'S SO MUCH MORE BEHIND A B&D DOOR

Call **13 62 63** or visit www.bnd.com.au for further information



Windpanel™



Windpanel looks like any regular sectional door from the outside.



Internal view without braces secured.



Internal view with bracing system secured.

ABOUT THE WINDPANEL SECTIONAL DOOR

The B&D Windpanel has been comprehensively designed for use in all cyclone-affected regions throughout Australia. It has been engineered to the toughest Australian wind standards, and is able to withstand wind speeds of up to 290km/hr. It is approved for use in cyclone regions including regions C and D. These requirements have been independently tested and certified by NATA-accredited agencies and professionally accredited structural engineers.

The B&D Windpanel derives its additional strength from a complete re-engineering of the entire door structure and through a removable aluminium bracing system which is applied to the door once a cyclone warning is received. An integrated storage system is supplied with the door to ensure that the removable braces are available for use when required.

The door re-engineering was conducted in order to achieve the strongest, most rigid door panel possible. Features on each door panel include reinforced track brackets, additional steel reinforcing struts, additional centre stiles, double end stiles and extended split-pined axles and wheels for all door widths, and additional hinge supports.

THE ALUMINIUM BRACING SYSTEM

When a cyclone is imminent, heavy-duty aluminium braces are secured to both the door and the garage structure. Up to 4 braces are required depending on the door width and which cyclone region the door is installed in. They are secured to both the garage (to the floor and the lintel) and to the garage door, through hinge attachment mechanisms. This installation process takes under 5 minutes per brace and only requires a screwdriver. Once the cyclone passes, the braces are removed, placed in their dedicated B&D-designed storage system and the door is ready for normal operation.



THERE'S SO MUCH MORE BEHIND A DOOR

DOOR FEATURES:

- Independently tested & certified for use in high wind areas (including Regions C & D)
- Additional reinforced track brackets – secured every 250mm and constructed of quality galvanized steel
- Each individual door panel features 2 x steel reinforcing struts - giving each additional panel enhanced support
- Additional centre stiles in every panel
- Every door features double end stiles, extended axles and wheels (which are pinned to prevent movement) – ensuring maximum durability & strength
- The high wind product features heavy duty extruded aluminium braces, above door brackets, floor central mounting point & numerous support fixtures throughout, ensuring the door resists blow in and blow out in cyclone affected regions throughout Australia
- Extruded heavy-duty aluminium braces stored easily alongside the door, to be accessed when a cyclone is imminent
- The braces are attached to the garage structure through floor and lintel attachments, and are secured to the door through hinge attachments
- Springs tested to exceed the Australian Standard > 20,000 cycles



Each panel features 2 x steel reinforcing struts.



Double end stiles and additional centre stiles for maximum strength.



Braces store conveniently in dedicated storage system.

CERTIFIED PRODUCT & INSTALLATION

The B&D Windpanel has been independently tested by a NATA-certified laboratory and certified by an independent structural engineer for use in all cyclone-affected regions throughout Australia. To ensure that the door is installed exactly to specification and for maximum strength and performance, B&D has created a licensing

system for the B&D Windpanel, which only allows installation of this product by trained and certified dealers and installers throughout Australia.

The B&D Windpanel is available in sizes up to 2.4m high x 5.5m wide. It is available in either Statesman, Federation, Grange or Turino profiles.

| TEST PROGRAM SUMMARY - STATIC AND CYCLIC STRENGTH SIMULATED WIND LOAD TESTING OF WINDPANEL SECTIONAL DOOR | | | |
|---|----------------|---------------|--|
| Test Regime | Test Direction | Test Pressure | Notes |
| Static Strength (AS4040.2) | Blow-in | 11.23 kPa | No failure observed - deflection of internal braces ~200mm. Creasing of door panel skin at the edges, bending of 2 trolley wheel axles and twisting of tracks, but door envelope was still integral. |
| | Blow-out | 9.97 kPa | No failure observed - strong deflection of internal braces. One trolley wheel started to disengage from vertical track on each side. Crushing of door panel skin at the overlap of support frame and door panel at both ends, but door envelope was still integral. |
| Cyclic Strength (AS4040.3) | Blow-in | 4.91 kPa | Pass - supported ultimate load of 1.30x Test Pressure. Hinge screws from one flap of a hinge connecting an internal brace and door panel pulled out, and trolley wheel end plate screws started to pull out, but door supported ultimate load. |
| | Blow-out | 5.91 kPa | Pass - supported ultimate load of 1.30x Test Pressure. No visible damage to door. |

NOTE: Cyclic test pressures determined according to AS1170.2 using Region D wind pressures.

Data from: Cyclone Testing Station, at James Cook University - June 2011

ENJOY THE CONVENIENCE

For easier operation of your Windpanel door, add a B&D Controll-A-Door automatic garage door opener. Designed to perfectly suit your door, the Controll-A-Door provides:

- Convenience – one push of the remote button and you drive straight into your garage.
- Tri-Tran™ technology – for greater reliability and minimal interference. When you push your transmitter button, you can trust your door will opener.
- Comfort – no more lifting heavy doors.
- Value – adds value to your home.
- Safety – forget getting out of the car on those dark or rainy nights. The courtesy light also allows you to see inside the garage.
- Security – protection for yourself and your property with a positively locked garage door.
- Low standby wattage – saving you money on your power bill, and reducing greenhouse gas emissions.



B&D Controll-A-Door remote openers.

| INSTALLATION CLEARANCES FOR WINDPANEL | | | | | |
|---------------------------------------|------------------|---------------------------------|----------------------------|-------------------------|-----------------|
| Door Height (mm) | Number of Panels | HEADROOM (mm) | | SIDEROOM (mm) | |
| | | RECOMMENDED | RESTRICTED | RECOMMENDED (EACH SIDE) | |
| | | Standard Headroom (with Opener) | Low Headroom (with Opener) | Standard Headroom | Low Headroom |
| | | Up to 5500 wide | Up to 5500 wide | | Up to 5500 wide |
| Up to 2400H | 4 - 5 | 340 (390) | 190 (240) | 120 | 155 |

YOUR **B&D REPRESENTATIVE** IS:

International Customers call **+61 2 9722 5555**
 fax **+61 2 9771 6385** or email bndint@bnd.com.au



Doors & Openers®

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B&D Doors has offices servicing all states.
 For more details on this product or our other ranges,
 call **13 62 63** or visit www.bnd.com.au

¹ The process of roll forming sheet steel may cause irregularities in flat panel surfaces. Woodgrain texture improves the door aesthetics. Smooth texture not available for all sizes.

a) Windpanel doors, in residential applications, are covered by a 12 month warranty, conditional on proper care, as recommended in the door's handbook. Full details of the warranty are available from www.bnd.com.au. 12 month warranty only applies to doors purchased and installed in Australia or New Zealand. Warranty only valid if warranty conditions are met.

b) For areas within one kilometre of a corrosive environment eg. salt air or industrial fallout, special care and maintenance are generally required for metal products. Consult B&D or your B&D Accredited Dealer for advice.

c) The company reserves the right to make changes or improvements to the products or

accessories without notice and without incurring any obligation to make similar changes or improvements to goods previously ordered. Specifications subject to change without notice.

d) B&D strongly recommend the use of Woodgrain finish on all steel sectional doors above 4900mm in width.

The Smooth finish when used in conjunction with darker colours may produce irregularities in the panel finish. Please consult B&D Doors or an Accredited dealer for more information.

e) Prefixed Trademarks are trademarks of B&D Australia Pty Ltd.

f) ² While BlueScope Steel Limited is our preferred supplier, steel products from other sources may also be used.

g) Details correct at date of publication.