



Series 2

traditional industrial type roller door



description

The Series 2 Traditional Industrial Roll-A-Door® has long been the ideal door for industrial and commercial applications.

Featuring a number of significant benefits to ensure even higher standards of durability, performance and importantly, operational ease.

Series 2 Traditional Industrial Roll-A-Door® is made up of 0.5mm gauge flexible steel curtain pressed to a horizontal ribbed profile, sliding between vertical guides. Raised or lowered by rolling or unrolling around a horizontal drum mounted above the opening, inclusive of the manufacturer's standard operating hardware and accessories necessary for satisfactory performance. The Roll-A-Door should be fixed in accordance with the manufacturer's instructions.

profile



MODEL	Series 2 Industrial
MODEL CODE	R21
COIL THICKNESS	0.5mm
MAX DOOR HEIGHT	5100mm
MAX DOOR WIDTH	5500mm
LOCKING	Waist high slide locking
DRUM TYPE	S2 pressed metal
TAPER OPTION	Yes
HIGH WIND OPTION	Yes

features

- All doors are custom made to suit individual openings - prevents penetration of weather moisture and reduces noise
- Continuous brake pressed steel curtain.
- Deep rigid channel guides or option for high wind guides.
- Aluminium bottom rail with weatherseal.
- Friction at the working surface. These options ensure continuous smooth, quiet operation.
- Sizes up to 5100mm high x 5500mm wide.
- Minimum size 1450mm high x 2000mm wide.
- The gearing assembly is mounted inside the door roll to minimise side clearance requirements and with its no maintenance, low friction characteristics, provides low operating effort to open and close very large doors.
- The gearing components need no lubrication due to materials used in manufacturing.





Series 2

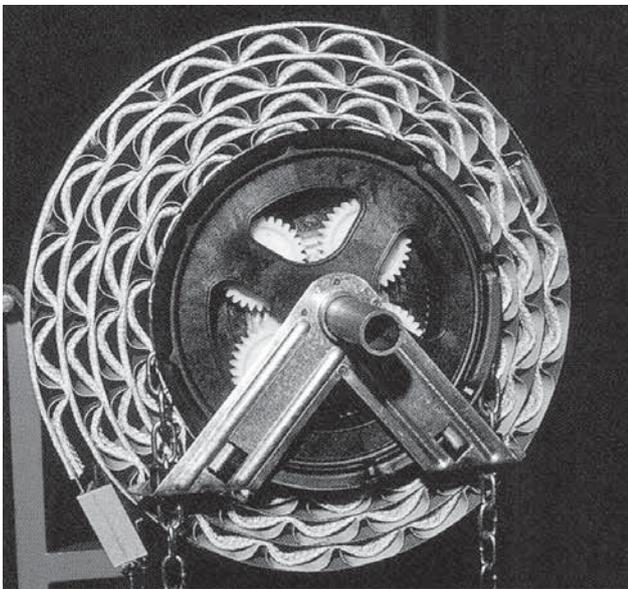
traditional industrial type roller door

options

- DTC High wind option.
- Fixed or independent tapers for out of level floors.
- Chain locking. Chain cleat is not lockable.
- Waist high internal slide bolt locking can be located on the right hand side or both sides.
- Centre lift lock with external key and internal knob operation.
- Internal and/or external bottom rail slide bolt locking.
- Electric and remote operation are available, ask your B&D representative or dealer to recommend a unit to suit.

maintenance

No greasing of the door guides is required as the axle, hubs and all other working components are manufactured with self-lubricating materials or greased at the factory.



colours/finishes

Colorbond® Timber Coat.

- An extensive range of COLORBOND® steel - a silicone modified polyester colour finish plus Zinalume®.
- Timber Coat™ Limited Edition for Roll-A-Door® - a patterned film which is applied to the Zinalume® base material and captures the subtle woodgrain effect and toning of timber.
- Luxe Design™ Limited Edition for Roll-A-Door® - the distinctive reflective surface of COLORBOND® metallic steel draws on the environment and surrounding structure, enabling you to enhance your home design with subtle yet dramatic effects, endless nuances and dynamic changeable qualities.

Refer to the colour selection chart for details.

secure locking

- Locks are located at waist height internally on the left hand side of the door (inside looking out) as standard.
- On wider doors locks are fitted both sides.



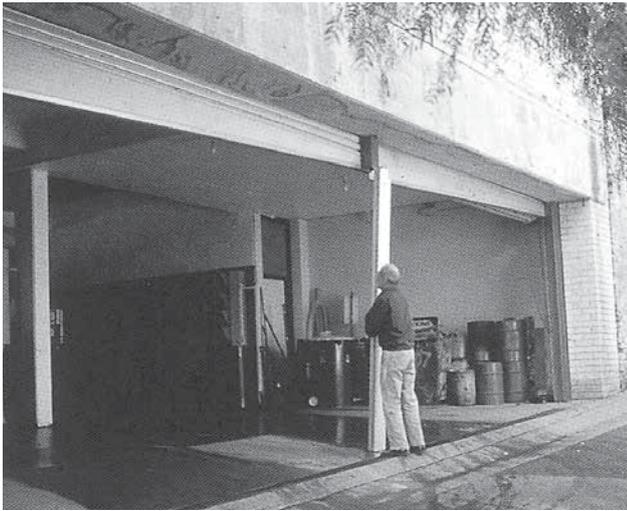


Series 2

traditional industrial type roller door

mullions for multiple doors

Where a choice of partial or total access to the building is required, a combination of mullions and multiple Series 2 Traditional Industrial doors is recommended. This provides a number of smaller doors, rather than one wide one.



- Mullions can be simply disengaged to provide unrestricted full width access.
- Mullions for smaller doors lift out by hand.



mullion calculations for two doors

DIMENSIONS

Overall width including guide section - 200mm
Effective width excluding guide section nominal - 115mm

OPENING SIZE CALCULATIONS

The width of the opening equals the sum of two door widths plus 15mm. Conversely, the size of the doors required will equal the width of the opening less 35mm.

wicket gates

Wicket gates provide quick and easy access in or out of the premises, without the need to raise the door.

- Opening size is 1780mm high x 600mm wide.
The gate is specified when inward opening is required.

The wicket gate is fitted with an external key operated night latch lock. When the door is in the open position the cranked bottom rail hangs 65mm below the lintel.

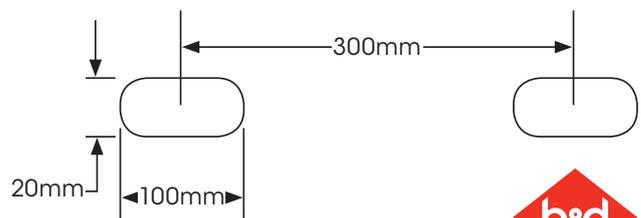


ventilated curtains

- Where ventilation is required the doors may be perforated to allow light penetration and up to 10% airflow.
- Perforation size 20mm x 100mm @ 300mm centres.

SIZE OF DOOR PERFORATIONS

The perforations are at 300mm centres with the space between them 200mm constant. The only variable is the distance between the edge of the sheet and the first and last perforation. This varies from approximately 80mm minimum to approximately 220mm maximum.



Series 2

traditional industrial type roller door

method of operation

- Hand operated to 2400mm high as standard.
- Direct chain drive operated between 2400mm and 3000mm high.
- Planetary reduction gearing for doors over 3000mm high.

All doors may be electrically or remote controlled.

installation

Illustrated installation instructions are available from the B&D website. B&D recommends installation by qualified technicians where possible.

installation requirements

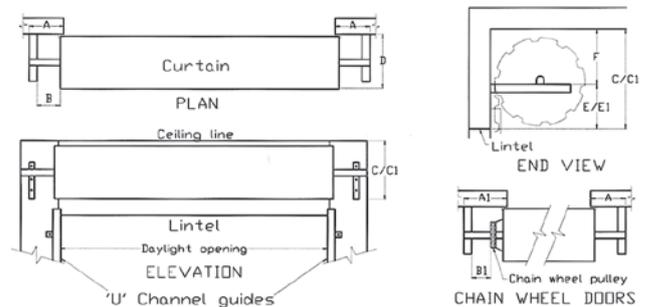
B&D Roll-A-Door® is normally installed behind the opening on brackets above and to each side of the opening. Headroom and sideroom are needed to accommodate overlap, brackets, rolled up curtain, guides and chain gear.

The structure, to which the brackets and guides are to be mounted, must be of sufficient strength to accommodate the fixings and loads imposed by the door through operation and other forces.

The surface on which the brackets and guides are mounted should extend up above the lintel and be flush with or slightly behind the lintel to give the door working clearance. A range of special brackets is available to suit various individual applications.

dimensions

- A1* Denotes sideroom required for installation of inside/outside mounted ½ HP motor. Left hand operation only.
- B Denotes non geared end of curtain.
- B1 Denotes geared end of curtain.
- C1 & E1 Denotes restricted headroom installation requirements, 'C & E is recommended'.



NOTE: Door curtain overlap 50mm each side for non-windlocked doors. Windlocked doors overlap 50mm for steel fixing, 88mm for timber/masonry fixing.

HEIGHT	A	A1	A1*	B	B1	C	C1	D	E	E1	F	OPERATION
Up to 2400	135	125	160/450	35	N/A	540	475	555	245	180	295	hand operated
2401 to 2700	135	135	160/450	35	5	620	555	565	310	245	310	direct chain drive
2701 to 3000	175	205	160/450	35	5	620	555	565	310	245	310	direct chain drive
3001 to 3300	195	225	160/450	35	5	620	555	565	310	245	310	planetary gearing
3301 to 4200	195	225	160/450	35	5	620	555	585	310	245	310	planetary gearing
4201 to 5100	210	225	160/450	35	5	635	590	615	310	265	325	planetary gearing

NOTE: Additional sideroom may be required depending on the opener being fitted or adding the high wind option. Consult B&D or an authorised dealer for this information.

Series 3

squareline™ industrial type roller door



description

The Series 3 Squareline™ Industrial Roll-A-Door® is a strong, reliable industrial rolling type door.

A distinct feature of this door is the small amount of room required above the lintel to accommodate the curtain roll. Perfect for tight headroom situations or where maximum opening height is important.

profile



MODEL	Series 3 Squareline Industrial
MODEL CODE	R31
COIL THICKNESS	0.5mm
MAX DOOR HEIGHT	3600mm
MAX DOOR WIDTH	5500mm
LOCKING	Waist high slide locking
DRUM TYPE	S3
TAPER OPTION	Yes
HIGH WIND OPTION	Yes

curtain qualities

All doors are tailor made to suit individual openings.

FEATURES

- Continuous brake pressed steel curtain.
- Square curtain profile.
- Tapered curtains.
- Aluminium bottom rail with weatherseal.
- Matches with the B&D Squareline Deluxe residential Roll-A-Door.
- Minimum size 1200mm high x 2000mm wide.
- Maximum size 3000mm high x 5500mm wide or 3600mm high x 3760mm wide.

BENEFITS

- Prevents penetration of moisture and dust, thereby minimising the chances of corrosion.
- Strong, while providing an attractive appearance.
- Exact solution for openings on sloping floors.
- Added protection against dirt, leaves and weather.
- Provides a profile match for situation where small and large openings are next to each other.
- Where ventilation is required the doors may be perforated to allow light penetration and up to 10% airflow.

operational ease

Nylofelt® is used to minimise friction at the working surface. This ensures that continuous smooth, quiet operation is an on going benefit of this product, requiring minimal effort to operate and no lubrication. The direct drive gearing assembly provides low operation effort.

FEATURES

- Nylofelt® cushioned operation.
- Standard doors up to 2400mm high can be operated by hand without the need of chain wheel equipment. Chain equipment is available as an option.
- Doors higher than 2400mm use direct drive chain equipment.

BENEFITS

- Lower noise with greater operating ease.
- Low maintenance.
- Ease of single handed operation.

OPTION

- Electric and remote operation are available, ask your B&D representative dealer to recommend a unit to suit your application.



Series 3

squareline™ industrial type roller door

tough colour finishes

The appearance of today's factories often reflects on the efficiency of their operation.

FEATURES

- Extensive range of COLORBOND® colours plus Zinalume® finish.

BENEFITS

- Optimum paint metal bond for low maintenance.
- Compatibility with all modern cladding material.

NOTE: Zinalume® door should be painted as soon as possible after installation.

secure locking

Security is provided with the inclusion of a heavy duty locking system.

FEATURES

- Locks are located at waist height internally on the left hand side of the door (inside looking out) as standard.
- On wider doors locks are fitted both sides.

BENEFITS

- No bending required to unlock door.
- Ensured security.

OPTION

- Chain locking.
- Waist high internal slide bolt locking can be located on the right hand side or both sides.
- Centre lift lock with external key and internal knob operation or deadlock.
- Bottom rail slide bolt locking inside and outside

HOW TO SPECIFY THE SERIES 3 SQUARELINE™ INDUSTRIAL ROLL-A-DOOR

Series 3 Squareline™ Industrial Roll-A-Door is made up of 0.5mm steel (doors manufactured in WA have 0.4mm steel) flexible curtain - pressed to a Squareline ribbed profile, sliding between vertical guides. Raised or lowered by rolling or unrolling around a horizontal drum mounted above the opening, inclusive of the manufacturers standard operation gear hardware and accessories necessary for satisfactory performance. The Roll-A-Door should be fixed in accordance with the manufacturer's instructions.

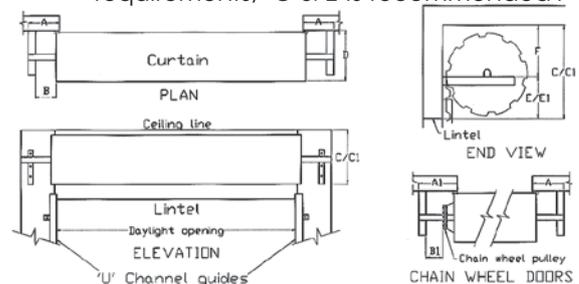
A finish must be indicated: choose from Zinalume®, COLORBOND® from the standard colour range. Method of operation should also be addressed if manual operation or motorisation is required. All doors may be electrically operated or remote controlled.

installation requirements

B&D Roll-A-Door is normally installed behind the opening on brackets above and to each side of the lintel. Headroom and sideroom are needed to accommodate overlap, brackets, rolled up curtain, guides and chain gear. The structure, to which the brackets and guides are to be mounted, must be of sufficient strength to accommodate the fixings and loads imposed by the door through operation and other forces.

dimensions

- A1* Denotes sideroom required for installation of motor. Contact your B&D representative for restricted sideroom.
- B Denotes non geared end of curtain.
- B1 Denotes geared end of curtain.
- C1 & E1 Denotes restricted headroom installation requirements, 'C & E is recommended'.

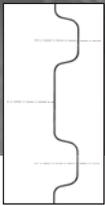


HEIGHT	A	A1	A1*	B	B1	C	C1	D	E	E1	F	OPERATION
Up to 2400	135	135	195	35	N/A	450	420	540	150	90	300	hand operated
2401 to 3050	135	205	195	35	N/A	450	420	540	150	120	300	direct
3051 to 3300	135	205	195	35	5	460	430	560	150	120	310	chain equipment
3301 to 3600	135	205	195	35	5	460	N/A	560	150	N/A	310	chain equipment

NOTE: Additional sideroom may be required depending on the opener being fitted or adding the high wind option. Consult B&D or an authorized dealer for this information.



mini warehouse model



description

Steel rolling overhead garage door with square profile - specifically designed for self storage complex.

The rolling garage door is made up of a steel, ribbed curtain that moves vertically in the opening, then roll up around a drum above the opening, guided by tracks and counterbalanced with springs.

profile

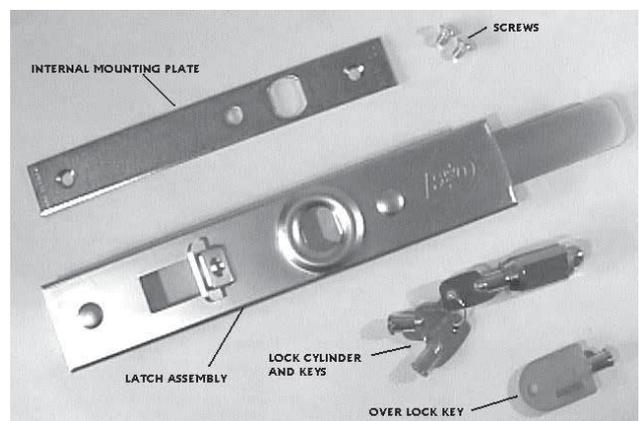
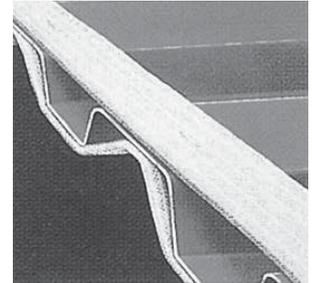
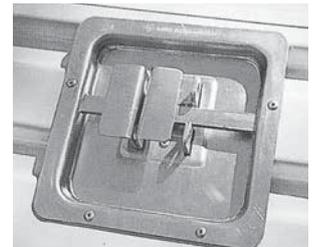
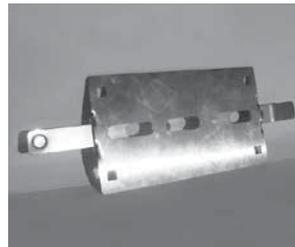
MODEL	Roll-A-Door Series 1 Mini Warehouse
MODEL CODE	R1M
COIL THICKNESS	0.4mm
MAX DOOR HEIGHT	3000mm
MAX DOOR WIDTH	3150mm
LOCKING	Mini warehouse lock
DRUM TYPE	S1 castellated pressed metal
TAPER OPTION	Yes
HIGH WIND OPTION	Yes

size range

Available in sizes from 1200mm to 3000mm in height and from 950mm to 3150mm in width.

features

- Nylofelt® running strips and Roll-A-Guides ensure smooth, quiet, greaseless operation.
- Precision springing and steel drum ensures consistent balance.
- Steel door stops.
- Mini-groove top sheet - helps reduce chances of paint rub.
- Weatherseal with deep cushioning, helps restrict entry of water and leaves.
- Waist-height locking system specially designed for self storage complex requirements (different versions accommodate two padlocks or a padlock and cylinder lock).





mini warehouse model

colours/finishes

AVAILABLE IN

- Extensive range of COLORBOND® colours plus Zinalume® finish (see colour chart for details).
- Includes several special colours for self storage complexes (check options with B&D).

options

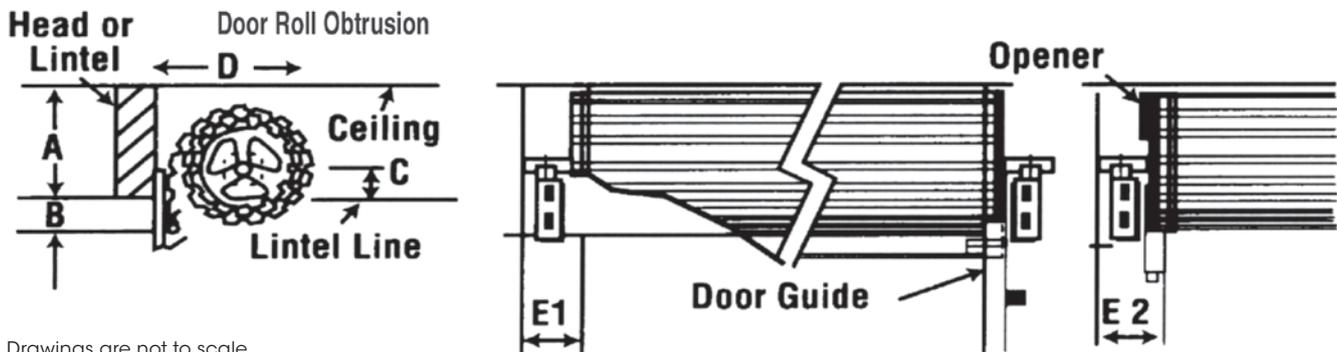
- Tapers - for garage floors that slope across the opening.
- Head infill panels.
- Head seal kit.
- Cylinder barrel locking.
- High wind option.

installation requirements

INSTALLATION CLEARANCES

Heights	Headroom (mm)						Sideroom (mm)		
	Recommended				Restricted		E1	E2	
	A	B	C	D	A	C	LH	RH	
Up to 2200	350	80	120	460	315	85	100	140	155
2201 to 3000	370	80	120	480	335	100			

All measurements are in millimeters and are minimum unless otherwise shown. **NOTE:** Door curtain overlap 25mm each side.



Drawings are not to scale.

NOTES / INFORMATION

- 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 Doors or your B&D Dealer for advice.
- Roll-A-Door garage doors, in industrial/commercial use are covered by a one year warranty for all components and labour. Full details of the warranty are available, on request, from your nearest B&D office.
- 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.
- Prefixed Trademarks are trademarks of B&D Australia Pty. Ltd. Abuse of these trademarks may result in legal action.
- Zinalume® and COLORBOND® are registered trademarks of BlueScope Steel Limited.
- B&D products have many patents and registered designs applicable.
- While BlueScope Steel is our preferred supplier, steel products from other sources may also be used.
- Details correct at date of publication. Specifications subject to change without notice.



Series 2

light industrial roll-up door



description

The Firmadoor® Series 2 Light Industrial Roll-Up door is the ideal choice for industrial and commercial applications, as it provides high standards of durability, performance and importantly, operational ease.

profile



MODEL	Firmadoor Series 2 Light Industrial
MODEL CODE	R2F
COIL THICKNESS	0.4mm
MAX DOOR HEIGHT	5100mm
MAX DOOR WIDTH	5100mm
LOCKING	Waist high internal slide bolt locking system
DRUM TYPE	S2 pressed metal
TAPER OPTION	Yes
HIGH WIND OPTION	Yes

features

- All doors tailor made to suit your application.
- Lightweight door for easy operation.
- Fitted with weatherseal to prevent penetration of moisture and dust.
- Uses Nylofelt® cushioned operation providing smooth, quiet performance.
- Available in a range of COLORBOND® and Zinalume® colour options for compatibility with all modern cladding materials.
- Waist high locking for ease of operation.
- Adaptable for your application with mullions and ventilated curtains all available on request.
- Continuous brake pressed steel curtain providing superior aesthetics.

specifications

SIZE: All doors are tailor made to suit individual openings up to 5100mm high x 5100mm wide.

CURTAIN: Manufactured from 0.4mm gauge, flexible steel curtain pressed to a horizontal ribbed profile, sliding between vertical guides.

OPERATION: The gearing assembly is mounted inside the door roll to minimise side clearance requirements and provides low operating effort to open and close very large doors. Doors up to 2400mm high can be operated by hand without the need of chain wheel equipment, doors between 2400mm and 3000mm use direct chain drive and doors over 3000mm high use efficient, compact, planetary reduction gearing. Nylofelt® used to minimise friction at the working surface. This ensures that continuous smooth, quiet operation is an on going benefit of this product, requiring minimal effort to operate and no lubrication.

FINISH: Wide range of COLORBOND® and Zinalume® colour options available.

BOTTOM RAIL: Aluminium bottom rail with weatherseal provides added protection against dirt, leaves and weather.

LOCKING: Waist high heavy duty locking system. Slide bolt locking is located internally on the left hand side of the door. Optional locking available on request:

- Waist high internal slide bolt locking can be located on the right hand side or both sides.
- Chain locking. Chain cleats not lockable.
- Centre lift lock with external key and internal knob operation.
- Internal and/or external bottom rail slide bolt locking.

Series 2

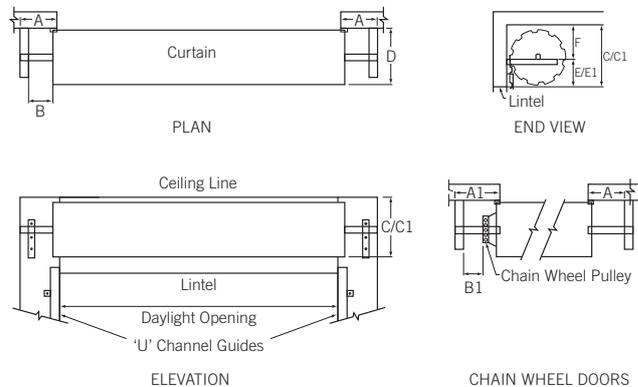
light industrial roll-up door

options

- Mullions: Where a choice of partial or total access to the building is required, a combination of mullions and multiple Series 2 light industrial doors is recommended to provide a number of smaller doors, rather than one wide door.
- Electric and remote operation are available, ask your B&D representative or dealer to recommend a unit to suit your application.
- Where ventilation is required the doors may be partially or fully perforated to allow light penetration and up to 10% airflow.
- High wind option.

dimensions

- A1* Denotes sideroom required for installation of inside/outside mounted ½ HP motor. Left hand operation only.
- B Denotes non geared end of curtain.
- B1 Denotes geared end of curtain.
- C1 & E1 Denotes restricted headroom installation requirements.
- C & E is recommended.



HEIGHT	A	A1	A1*	B	B1	C	C1	D	E	E1	F	OPERATION
Up to 2400	135	125	160/450	35	N/A	540	475	555	245	180	295	hand operated
2401 to 2700	135	135	160/450	35	5	620	555	565	310	245	310	direct chain drive
2701 to 3000	175	205	160/450	35	5	620	555	565	310	245	310	direct chain drive
3001 to 3300	195	225	160/450	35	5	620	555	565	310	245	310	planetary gearing
3301 to 4200	195	225	160/450	35	5	620	555	585	310	245	310	planetary gearing
4201 to 5100	210	225	160/450	35	5	635	590	615	310	265	325	planetary gearing

All measurements are in millimeters and are minimum unless otherwise shown. **NOTE:** Door curtain overlap 50mm each side.

NOTES / INFORMATION

- A) 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 Doors or your B&D Dealer for advice.
- B) Firmadoor Series 2 Light Industrial doors, in normal use are covered by a one year warranty for all components and labour conditional on care and servicing as recommended in the door's handbook. Full details of the warranty are available, on request, from your nearest B&D Doors office.
- 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.
- D) Prefixed Trademarks are trademarks of B&D Australia Pty. Ltd. Abuse of these trademarks may result in legal action.
- E) COLORBOND® and Zinalume® are registered trademarks of BlueScope Steel Limited.
- F) B&D products have many patents and registered designs applicable.
- G) While BlueScope Steel is our preferred supplier, steel products from other sources may also be used.
- H) Details correct at date of publication. Specifications subject to change without notice.



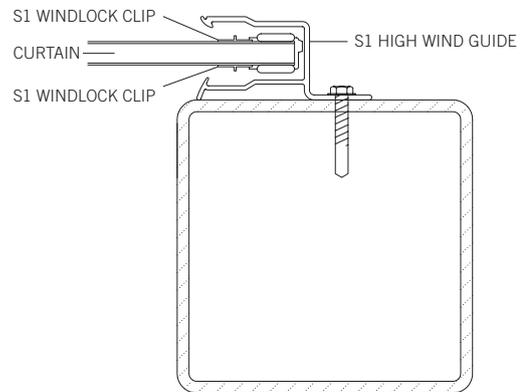
Roll-A-Door®

Series 1 High Wind Doors

R1D & R1M



WINDLOCK SYSTEM



description

B&D Rolling Door products have been tested in accordance to the wind requirements of AS/NZS 4505:2012 (Garage Doors & Other Large Access Doors) which complies to AS/NZS 1170.2:2011 (Wind actions) and AS 4055:2012 (Wind loads for housing).

B&D Series 1 wind rating is an option for the standard rolling door described in this product manual.

Our wind-locking technology incorporates a unique clip design fitted to the edge of every flat on our high wind rolling doors. When exposed to high wind situations, this clip design ensures the door is held captive in the door track, it reduces the risk of both blow-in and blow-out wind forces, and provides added protection against forced entry.

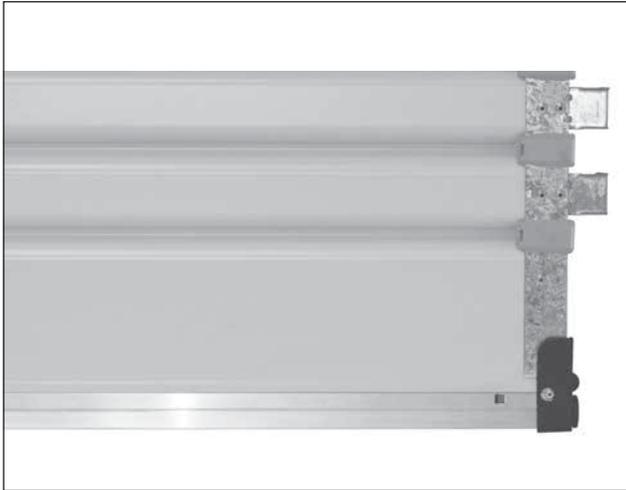
features

- Incorporates extruded aluminium guides.
- Guide size width total 90mm x 45mm
- Additional width doors and side room are required depending on the building structure. Check the drawing details in compliance section for this information.
- Door headroom remains as per the standard door headroom requirements.
- An additional 110mm minimum should be added to the opening width when calculating the door curtain width. Additional width may be required in some circumstances. Check the drawing details in compliance section for this information.
- For all current Deemed To Comply (DTC) documentation including reference drawings, form 15, section 40 and test summary pages go to the the B&D website www.bnd.com.au.



Series 2 & 3 High Wind Doors

R2W, R2L, R2F, R2I, R3F, R3W, R3I



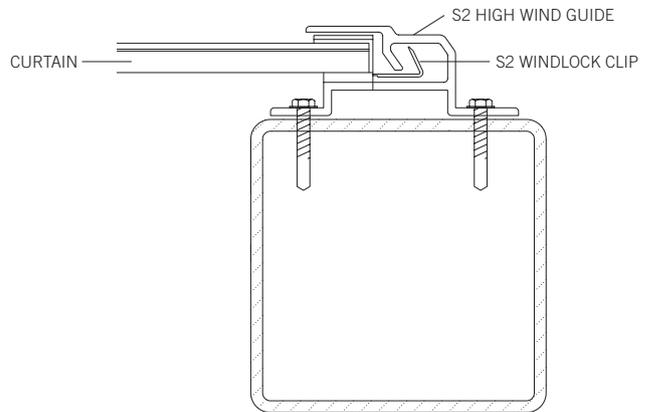
description

B&D Rolling Door products have been tested in accordance to the wind requirements of AS/NZS 4505:2012 (Garage Doors & Other Large Access Doors) which complies to AS/NZS 1170.2:2011 (Wind actions) and AS 4055:2012 (Wind loads for housing).

B&D Series 2 & 3 wind rating is an option for the standard rolling door described in this product manual.

Our wind-locking technology incorporates a unique clip design fitted to the edge of every flat on our high wind rolling doors. When exposed to high wind situations, this clip design ensures the door is held captive in the door track, it reduces the risk of both blow-in and blow-out wind forces, and provides added protection against forced entry.

WINDLOCK SYSTEM



features

- Incorporates extruded aluminium guides.
- Guide size width total 120mm x 45mm
- Additional width doors and side room are required depending on the building structure. Check the drawing details in compliance section for this information.
- Additional width should be added to the opening width when calculating the door curtain width. Check the drawing details in compliance section for this information.
- For all current Deemed To Comply (DTC) documentation including reference drawings, form 15, section 40 and test summary pages go to the B&D website www.bnd.com.au.