

Steel-Line's

WINDLOCK ROLLER DOORS



Superior **strength and rigidity** are qualities of the unique design of the Steel-Line Windlock system for roller doors used in high wind and cyclonic locations.

In high wind and cyclonic areas, it's sometimes necessary to engineer your garage or industrial door a little differently to ensure it withstands the particular stresses it may be subject to. Steel-Line Windlock roller doors are ideal for use in homes, sheds, commercial and industrial warehouses in high wind prone areas.

The National Construction Code (NCC) 2013 – Housing Provisions (Building Code of Australia Volume 2) includes a reference for garage and large access doors for Region C and Region D to comply with AS/NZS 4505 – 2012 'Garage doors and other large access doors'. This comes into effect on 1st May 2013.

Steel-Line Garage Doors has reengineered our wind rated roller doors and had them tested at the James Cook University against the wind loading requirements as laid out in the updated AS/NZS 4505-2012.

The Steel-Line Windlock system incorporates a moulded lug secured to the door curtain, which interlocks the matching shaped side-track. The design ensures smooth operation and minimises air infiltration enabling your roller door to withstand high force wind conditions and dramatically reducing the potential for the door to sustain damage and blow in.

Our Windlock system also serves as an extra safe-guard against break-ins because the curtain cannot be easily pushed in helping to prevent unwanted entry.

In Australia's high wind and cyclonic areas, Steel-Line's Windlock roller doors help keep you, your premises and belongings safe.

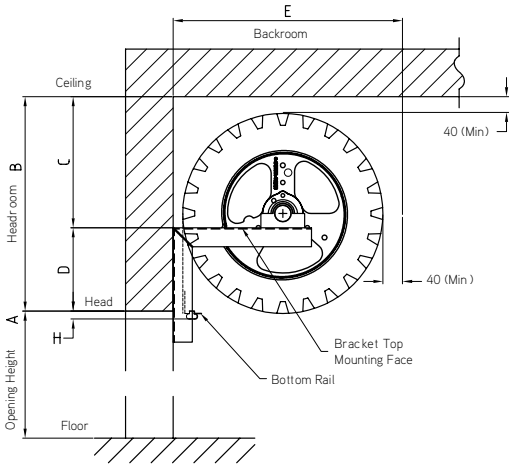
Call 1300 427 243
www.steel-line.com.au

 **STEEL-LINE**
GARAGE DOORS

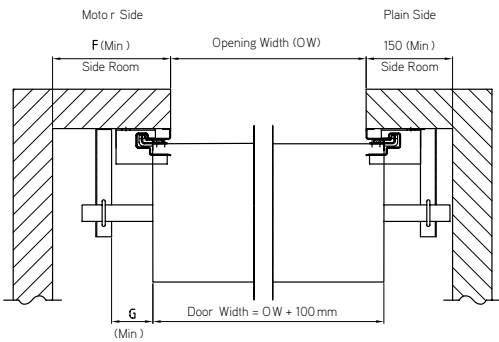
WINDLOCK ROLLER DOORS



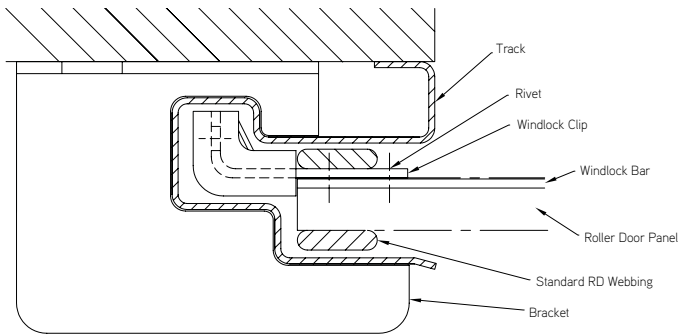
Elevation View Series A, AA and B



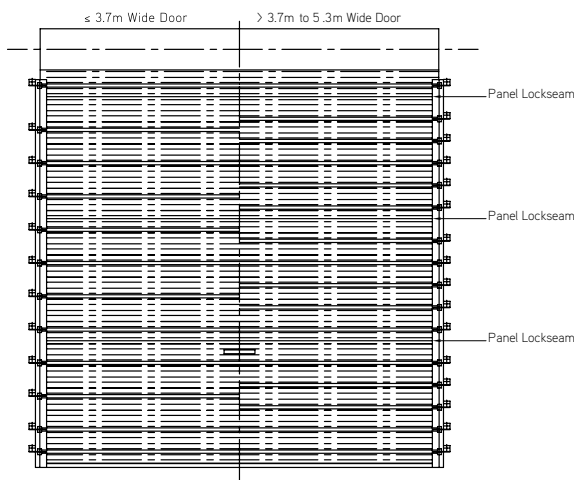
Plan View Series A, AA and B



Typical Roller Door Guide Detail



Typical Roller Door Elevation (Inside View)



Series A and AA Windlock Roller Doors

For curtain widths up to 5300mm

Minimum Dimensions (mm)	A=Opening Height		
A	1200-2100	2200-2600	2700-3000
B	430	480	510
C	235	260	275
D	195	220	235
Minimum backroom required (mm)			
E	450	500	530

Series B Windlock Roller Doors

For curtain widths up to 5300mm

Minimum Dimensions (mm)	A=Opening Height		
A	3100	3600-4200	4800-5100
B	510	540	570
C	275	290	305
D	235	250	265
Minimum backroom required (mm)			
E	540	570	600

Minimum side room for motor side (mm)

Series A, AA and B Windlock Roller Doors

Motor	RD9*
F	235
G	90

H=20mm for manual operation

H=100mm for motor operation

To underside of guide stop

* For other roller door operators, please refer to your local Steel-Line branch

Note:

1. Values in the tables indicate the minimum space required.
2. If there is insufficient headroom at the site, the bottom of the curtain roll may infringe the opening.
3. Deemed To Comply M/416/01-02: Subject to conditions for doors over 3500mm day light opening width.

Wind Classification	Ultimate Wind Pressure			
	Door < 4 m Wide		Door ≥ 4 m Wide	
	Inward	Outward	Inward	Outward
C2	2.92kPa	-3.37kPa	2.92kPa	-3.04kPa

Ultimate Reactions (kN/m of Height)	Door Width 3.5 – 4.0m	Door Width 5.0 – 5.3m
	X = 42.7; Y = 6.0	X = 72.2; Y = 9.4

Notes:

1. Wind Classification information from AS4505-2012 Table 5.2.
2. Ultimate Wind pressure includes appropriate local pressure factors.
3. Ultimate Reactions - X = Horizontal reaction in plane of door.
Y = Horizontal reaction perpendicular to plane of door.

Steel-Line Garage Doors has a continuous program of product development and reserves the right to change specifications at any time without notice.

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