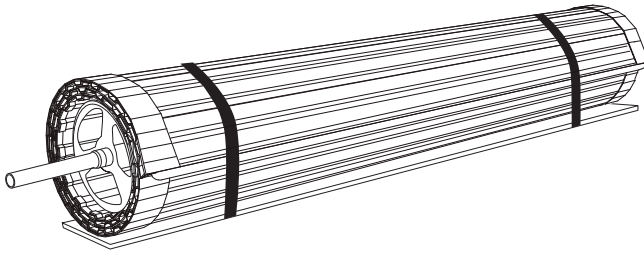




Phone 06 356 2376 or 0800 777 702
18 Railway Road, PO Box 4230, Palmerston North
sales@nsdoors.co.nz
nu-styledoorcompany.co.nz

SPECIFICATIONS & INSTALLATION INSTRUCTIONS

B-Series Industrial Roller Doors



Fully read the instructions before commencing installation.

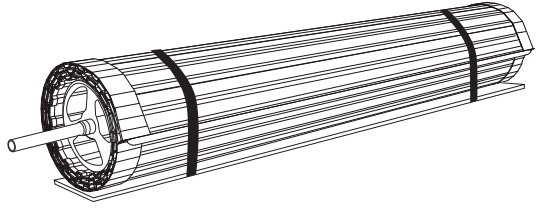
- Roller doors are normally installed to operate behind the opening, overlapping as specified on the last page.
- Opening must have sufficient return on both sides to accommodate support brackets and guides with necessary working clearances.
- The door is supported on brackets above the opening at each side and requires headroom for the door to roll up in. Door posts must continue up past the top of the opening to provide fixing of the support brackets (see last page).
- If difficulty is experienced in obtaining sufficient clearance between the door and the back of the lintel, it is advisable to pack out the guides (20mm thick timber) in preference to moving the door back to the slotted brackets. This method will also assist the operation of the door.
- **Door Width:** The curtain should be 100mm wider than the opening (50mm each side). **IMPORTANT** ensure there is sufficient side room timber for fixing of the guides. Door post widths should be 100mm minimum to provide solid fixing. Guides fixed to insecure backing will significantly reduce windloading resistance.
- **Door Height:** A door cannot be installed higher than its maximum size but can be installed in a lower position providing the door guides are cut to suit.

WARNING: No guarantee will be given or responsibility accepted by the manufacturer if the door is not installed as instructed. PLEASE FOLLOW INSTRUCTIONS CAREFULLY.

IMPORTANT: For doors with automatic openers please ensure curtain is pinned to drum wheel. See installation instructions accompanying automatic door opener.

STEP 1: Preparation

DO NOT CUT THE BANDS which hold the door in a roll until advised.

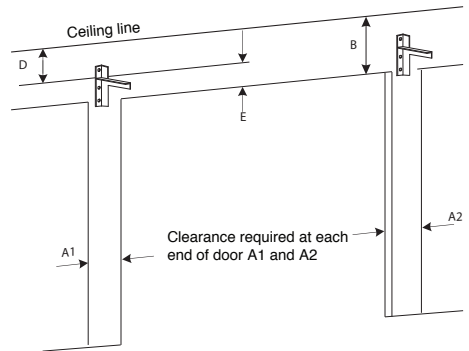


1. Remove brackets, guides and bag of parts from the end of the door roll.
2. Check the opening width overlap. The door and the opening widths should be measured to determine the amount of door overlap to enable correct positioning of the brackets.
3. **FIXINGS REQUIREMENTS:**
TEK screws are the standard timber fixings supplied with your roller door.

NOTE: *Masonry blockwork should be properly filled and reinforced if the brackets are to be mounted directly to the blockwork with masonry anchors (not supplied). Where the blockwork is not solidly filled but structurally sound, long bolts should be passed through the blockwork using suitable steel plates under bolt heads.*

STEP 2: Bracket Fixing

1. Check the opening dimensions to ensure you have the correct door size.
2. Check floor and lintel levels and work from the side with the least headroom.
3. Mark out first bracket checking dimension panel for height of brackets above lintel (see table. If insufficient headroom, measure down from ceiling or obstruction using B dimension and mark a new line and treat as lintel.)
4. Mark out one bracket, drill and fix after allowing sufficient side clearance for door curtain.
5. Using a water level or a straight edge and spirit level transfer position of the top of the first bracket arm to opposite side of opening, then mark drill and fix second bracket.



NOTE: *the brackets must be perfectly level for correct door operation. Also ensure that the brackets are secure.*

STEP 3: Position door on brackets

Manual & Direct Drive Doors

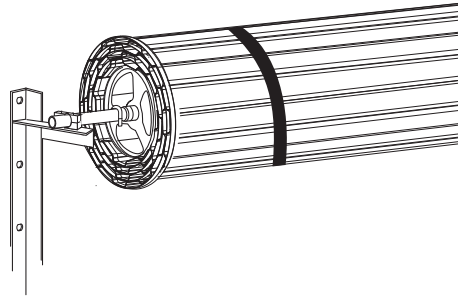
With door on ground firmly grasp axle in both hands and rotate as far as possible, then release grip suddenly so that the axle revolves backwards and becomes centralised with the curtain. On manual doors fit plastic anti-coning collar on axle at both ends against the drum wheel and tighten.

Direct Drive and Planetary geared doors

1. With door on ground fit chain guide on axle against chainwheel and fit anti-coning collar on axle at opposite end against drum wheel and tighten (on planetary geared doors first ensure gearing cogs are tightly meshed before tightening anti-coning collar at opposite end).
2. Carefully lift door onto brackets using block and tackles attached to axle ends (or some other suitable lifting equipment) taking care to avoid curtain damage. Rest axle between two cast iron saddles and loosely secure to brackets with bolts, saddle plate and washers provided. Before tightening saddle bolts, position the door (move curtain and axle together) so that the curtain overlaps the opening evenly both sides and that the axle is positioned on the bracket arm as far forward as possible while still allowing the bottom to pass the lintel when the door is rotated.

STEP 4: Apply tension

Apply initial counterbalance tension to springs by rotating door roll two complete turns in a forward direction. Larger doors may require up to 3 turns. (Refer to illustration for correct direction). Reverse turns, no turns, no turns INADEQUATE clamping will cause SERIOUS damage when the door bands are cut. The amount of tension required for best operation may vary with individual doors. Final adjustment should be made on completion of installation. (See Step 8 - Spring Tension Adjustment)

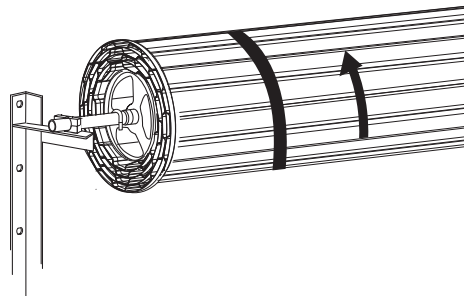


3. Rotate the door and axle together so that the bottom rail is level with the bracket arms. Tighten the saddle bolts very tightly.

WARNING: Axle must be securely clamped otherwise door will lose spring tension.

4. If chain gear is fitted place chain around wheel ensuring chain hangs freely and is not twisted. Join chain ends together firmly. Fit chain clip to wall allowing clearance for fixing of guides.

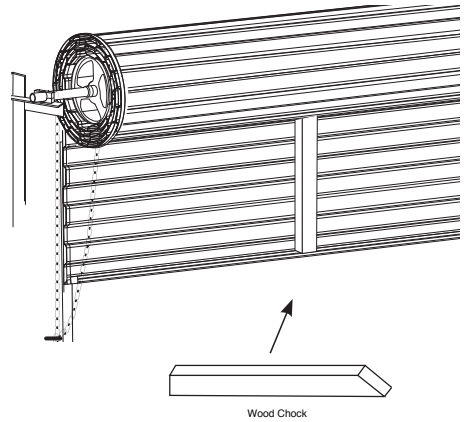
IMPORTANT: If sideways adjustment of door is necessary while positioned on brackets both axle and curtain must be moved together. Failure to do this will cause the axle to be pushed out of centre relative to the curtain causing the door to roll up unevenly.



STEP 5: Cut Bands

1. While holding the door in its tensioned position cut bands which hold door in a roll and pull curtain partly down as illustrated.

WARNING: At this stage door may have a strong tendency to rise and unroll which if uncontrolled could cause damage. Therefore it must be securely held in position until guides which incorporate head stops are fitted. Chain wheel doors can be secured by clipping chain into the chain dip. Hand operated doors can be held by a soft chock as illustrated.

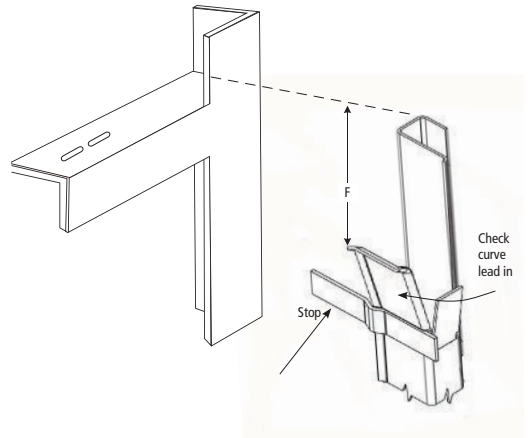


STEP 6: Preparation of Guides

1. Curve the entry in each channel guide to give "lead in" for the door curtain as illustrated. Ensure guide lugs have suitable backing to be fastened so the door has maximum wind resistance.

DO NOT DRILL HOLES IN BACK OF GUIDES FOR FIXING. ALWAYS USE GUIDE LUGS.

2. Guides must be correct length. The top of the curved entry should be positioned below the horizontal bracket arm by dimension F (see last page). If guides need to be shortened cut from the bottom of the guide.



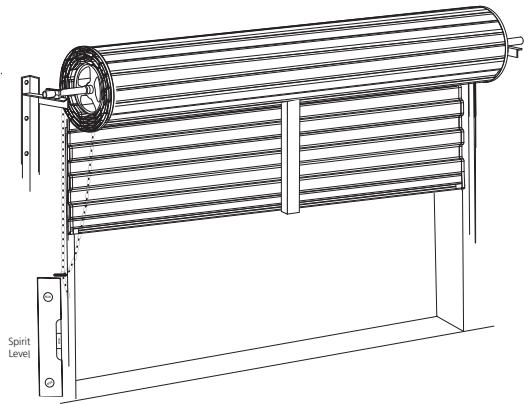
STEP 7: Positioning

NOTE: Welding of guides to steel work is not recommended because of difficulty with adjustments to guides for door operation and maintenance. For steelwork, fixing uses suitable ramset self-drilling TEK screws. We recommend using a fine thread screw for thin steel backings. Alternatively use a coarse thread for thicker steel.

DO NOT GREASE THE GUIDES.

1. Check the door roll is still centred over the opening. Slide steel "U" shaped guide into position on left hand side of entrance, with the door in the rolled up position. Fix guide vertically 3mm clear of hanging curtain. Use the 'plump bomb' or spirit level with a straight edge.
2. Hold bottom rail of door firmly against left hand guide while fitting top of right hand guide. IMPORTANT 6mm clearance must be allowed as working clearance for the door curtain ie. 3mm each side of door when operating.

3. Draw curtain down to each fixing lug position on guides and re fix lugs continuing to check side clearance and straightness of guides.
4. **PADBOLTS (B SERIES - SEE BACK PAGE)**
Fit to each side (inside) of door in the first full width profile from floor level. Ensure fixing allows slide bolt to protrude through guide in locked position. When fixed and with the door in close position mark the point on contact between bolt and guide. Drill series of holes and file out guide slots slightly larger than the side bolt.

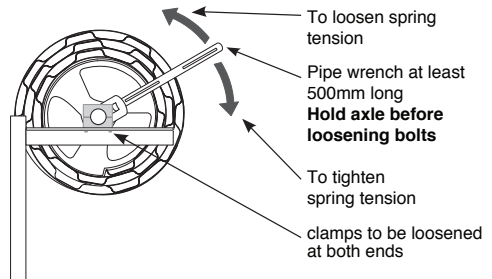


STEP 8: Spring Tension Adjustment

Test operation of door. If it is hard to raise and shows a tendency to drop, more tension is required. If hard to close and shows tendency to rise, less spring tension is required.

Adjusting Procedure:

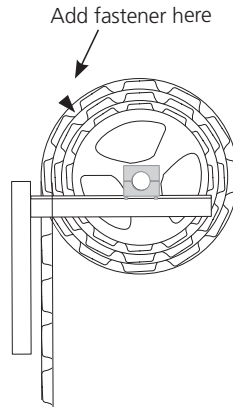
1. With door in open position (rolled up) tie two ropes around door approx. 300mm from each end. With a man at each end, secure firm hold on axle with two pipe wrenches and loosen clamps with a wrench.
2. Axle can then be rotated in required direction (see diagram) until approx. tension is gauged.
3. Clamps must then be retightened very tightly before releasing hold on the pipe wrenches.
4. Repeat process if spring tension still requires further adjustment. For door fitted with planetary drive chain wheel assembly, the chain dropping from the wheel side furthest from the wall can be used with safety from ground level instead of pipe wrenches as above.



NOTE: When using this method of adjustment, ropes **MUST BE** tied around the door roll otherwise serious damage will result if axle grip slips while adjusting spring tension.

STEP 9: Add Fasteners

To conform to manufacturers specifications all A and B series roller door curtains must be "pinned" as per diagram shown.



Place TEK screws 75mm up from where the curtain leaves the roll when door is fully down.

Final Check:

Operate the door up and down a number of times to check operation. If operation is uneven or not smooth, rectify as below:

FAULTS AND REMEDIES:

1. DOOR HARD TO OPERATE IN ONE DIRECTION

Adjust spring tension.

2. DOOR HARD TO OPERATE IN BOTH DIRECTIONS

Check guide clearances (see that the door is not jamming). Also check that the inside surfaces of the guides are clean and free of any oil or film. Use a spirit cleaner if necessary. Polishing the inside surfaces of the guides improves operation.

3. DOOR IS STIFF TO WORK AND RATTLES OVER LEAD IN ON TOP OF GUIDES

- Check that guides are not too long. Move the door closer to the lintel.

- With the door up and the chain secured, loosen one 'U' bolt and push that side of door towards opening as far as possible without scraping lintel. Tighten the bolts and repeat operation with the other side, ensuring that the axle is still parallel with opening.

- Pack out top lug of guide.

4. DOOR SCRAPING IN THE GUIDES

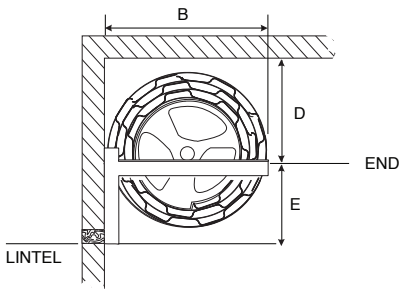
Check that the guides are plumb, the clearances are correct and that the door is correctly centred over the opening. Also check that the brackets are level.

WARRANTY:

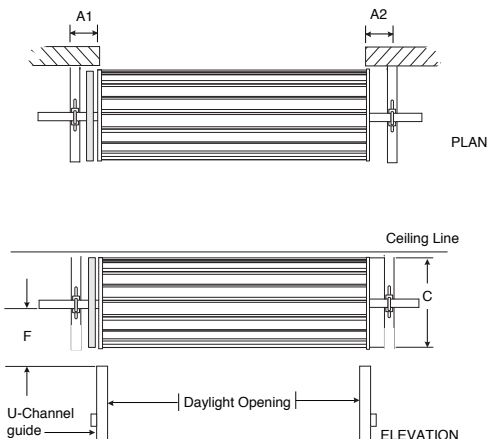
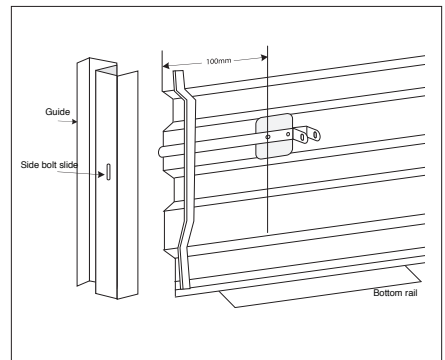
Provided the door is installed with these instructions and maintenance advice followed, the manufacturer warrants all parts and performance for a period of three years from the date of purchase.

DIMENSIONS: CURTAIN OVERLAP - 50mm each side

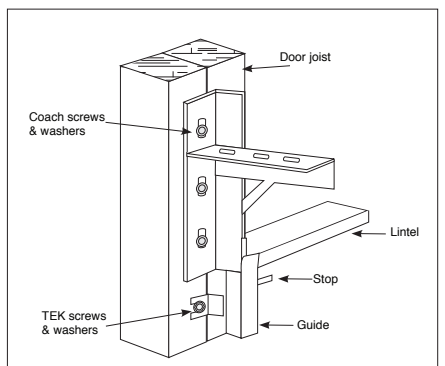
Height	A1 mm	A2 mm	B mm	C mm	D mm	E mm	F mm	OPERATION
2.1	125	125	460	410	260	200	135	Manual
2.4	125	125	460	410	260	200	135	
2.4	220	125	460	410	260	200	135	Chain Wheel
2.8	220	125	470	420	260	210	135	
3.1	220	125	480	430	270	210	145	
3.5	220	125	500	450	280	220	145	
3.8	220	125	510	460	285	225	155	
4.3	220	125	530	480	290	240	165	
4.6	220	125	540	490	290	250	170	
4.8	220	125	560	510	300	260	180	



Padbolt — Fitting



Fixing Detail — Brackets/Guides



Maintenance:

To avoid the potential of corrosion affecting the roller door curtain be sure to wash with soapy water and a soft brush (rinse with clean water) at least three times a year. If your door is located close to coastal, geothermal or industrial areas your door should be cleaned more often. When cleaning pay particular care to the curtain behind the lintel and over the top of the door roll.

From time to time clean the inside of the side guides with a spirit cleaner and apply a silicone spray.

Provided the door is installed in accordance with the instructions supplied, and that the maintenance advice is followed, the manufacturer warrants all parts and performance for a period of three years.

DO NOT LUBRICATE WITH OIL OR GREASE.



Phone 06 356 2376 or 0800 777 702
18 Railway Road, PO Box 4230, Palmerston North
sales@nsdoors.co.nz
nu-styledoorcompany.co.nz

FOR FURTHER INFORMATION CONTACT YOUR NU-STYLE GARAGE DOORS DEALER

