

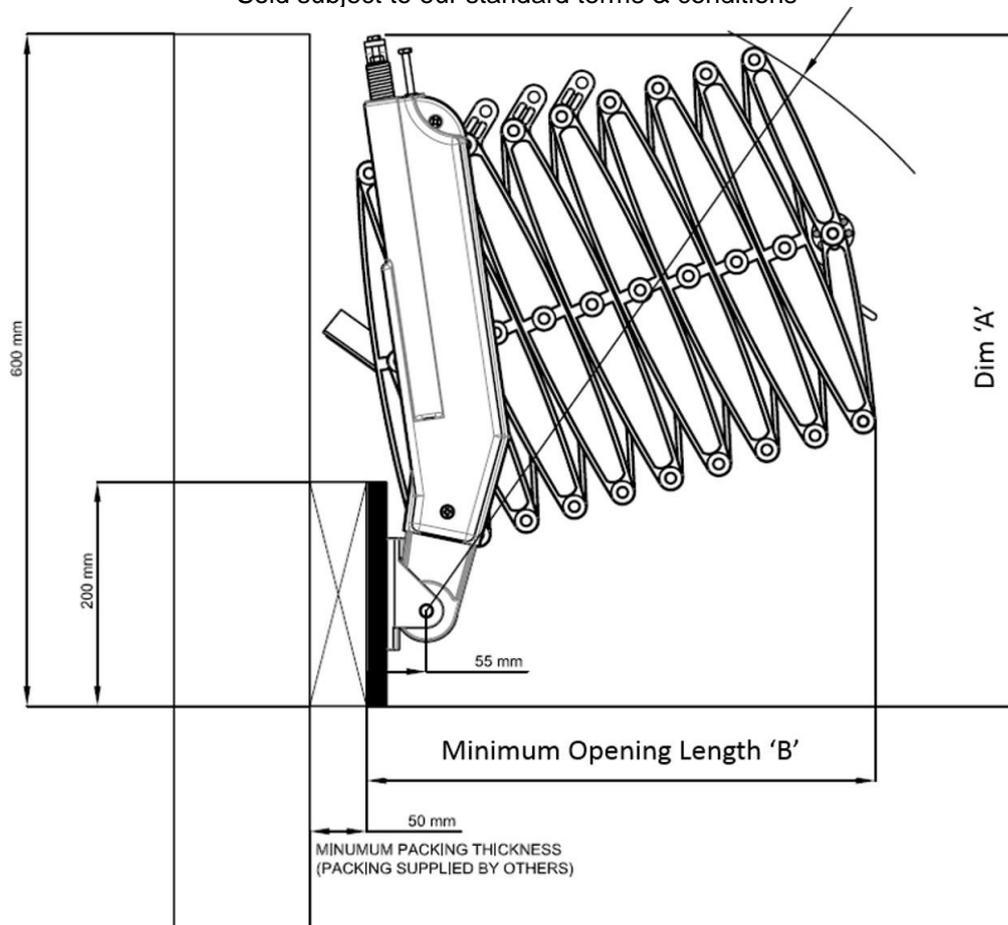
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FAL fitting instructions

TITLE: Notwithstanding delivery, the title to these goods does not pass until payment has been received in full for these goods. Risk passes on delivery.

SHORTAGES: Complaints and shortages must be notified IN WRITING within 5 days of receipt of goods.

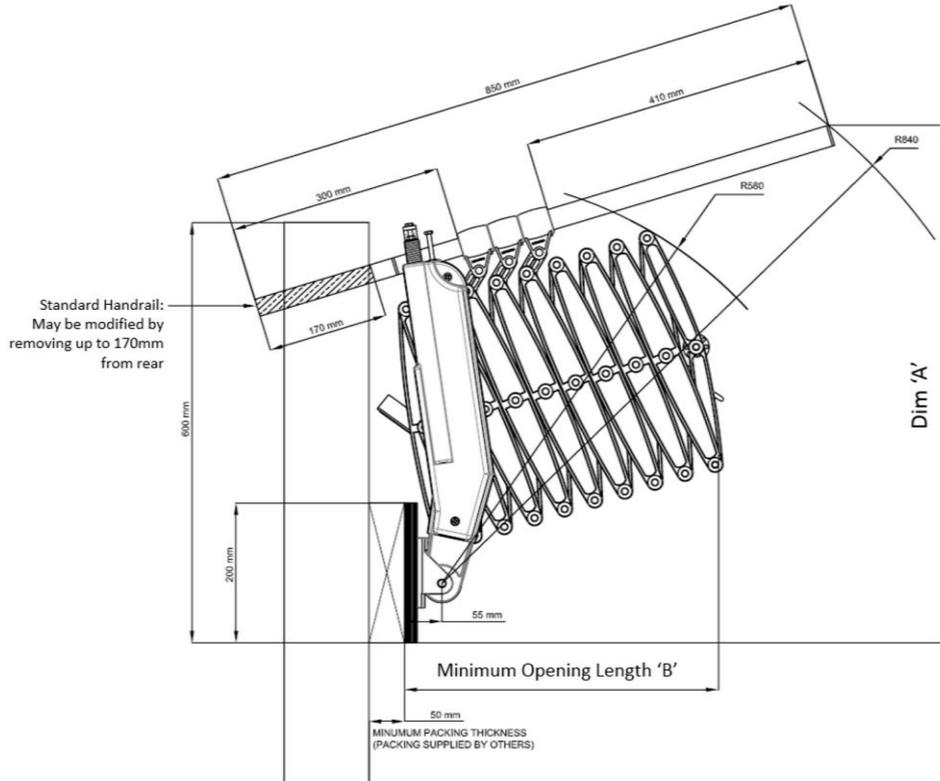
Sold subject to our standard terms & conditions



ZIG ZAG LADDER (NO HANDRAIL)			
Height to Base of Backboard	No of Treads	Dim 'A'	Dim 'B'
Up to 2500	9	605	655
2501 - 2790	10	605	695
2790 - 3090	11	605	735
3091 - 3390	12	610	775



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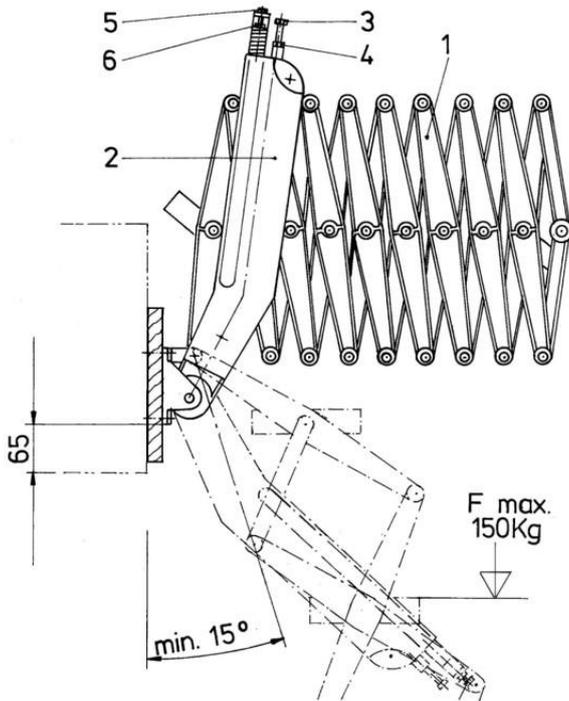


ZIG ZAG LADDER (WITH HANDRAIL)			
Height to Base of Backboard	No of Treads	Dim 'A'	Dim 'B'
Up to 2500	9	605	655
2501 - 2790	10	605	695
2790 - 3090	11	605	735
3091 - 3390	12	610	775

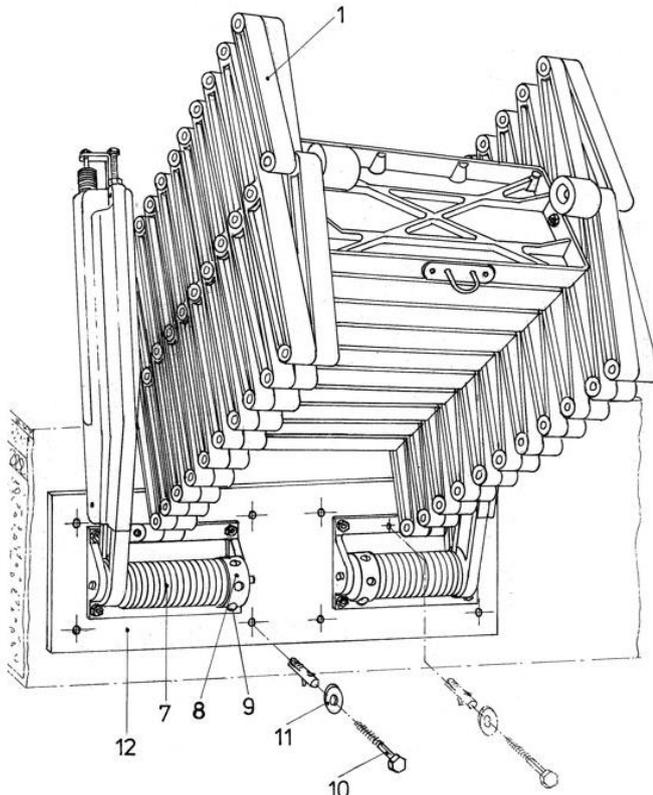
Note: It is recommended that the minimum structural opening length is 1000mm for a Zig Zag ladder when fitted with a handrail



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1. Stairway Scissor Packet
2. Operating Arm Assembly
3. Touchdown adjustment bolt
4. Lock nut
5. Secondary spring tension adjustment screw (set at the factory)
6. Lock nut
7. Main counterbalance springs
8. Spring roller
9. Domed head locating stud
10. Fixing screws (not supplied)
11. Washer
12. Mounting backboard



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Zig Zag stairs conform to DIN 4570, are manufactured from high strength die-cast aluminium alloy components and have a load bearing of 200kgs. The stairway is attached to a 19mm thick wooden backboard, 600mm wide x 200mm deep, for fitting to the structural vertical surface.

The stairway is supplied with two heavy-duty counter-balanced springs (item 7), incorporated into pivot brackets to ensure that the stairway can be raised and lowered with minimum effort.

The maximum fixing height from the floor to underside of the backboard is 3390mm. Selection of the correct stairway for the floor level to fixing height is determined as follows:

- Stairway supplied with 9 treads, 350mm wide x 140mm deep, to suit a floor to underside of the backboard height of 2250mm - 2500mm.
- Stairway supplied with 10 treads, 350mm wide x 140mm deep, to suit a floor to underside of the backboard height of 2501mm - 2790mm.
- Stairway supplied with 11 treads, 350mm wide x 140mm deep, to suit a floor to underside of the backboard height of 2791mm - 3090mm.
- Stairway supplied with 12 treads, 300mm wide x 140mm deep, to suit a floor to underside of the backboard height of 3091mm - 3390mm.

Installing the Stairway

First, check that the correct stairway has been received to suit the actual floor to fitting height as detailed above.

PLEASE NOTE: It is not possible to fully extend the stair to it's full length until it is fixed in position

When the stairway is fitted to a vertical structural surface a spacer the same size as the backboard (200mm high x 600mm wide and a minimum of 50mm deep) needs to be positioned between the vertical structural surface and the backboard (item 12) of the stairway. This will allow for the stairway to be folded back into the closed position. The spacer is not supplied with the stairway.

PLEASE NOTE: The stair must be fitted in the closed position

There are no pre-drilled holes in the backboard. We recommend a minimum of 8 No. suitable screws (item 10), Ø8mm x 80mm long are used, complete with Ø9mm washers (item 11).

The screws are not included with the stairway, as the correct screws/fixings depend on the actual surface that the stairway is being fitted to. Ensure the backboard is fixed to solid structural material. Once the stairway has been correctly fitted, it can then be lowered to the floor surface.



Adjustment of the touch-down point after installing the stairway.

The actual touch-down point (floor contact) of the stairway can be adjusted to suit individual stairways as follows:

- Extend the stairway out to the desired touch-down point (15° is the minimum angle). Slacken the lock nut (item 4) and turn the adjustment bolt (item 3) until it stops. Tighten the lock nut; the stairway will be set to extend to this touch-down point.
- Once any adjustment has been carried out we would recommend that you check that the treads are horizontal to the floor.
- The angle of the treads can be adjusted by slackening the two nuts on the underside of each tread. Reset all treads on the stairway so that they are horizontal
-

Adjusting the Spring Tension of the Stairway

The stairway is supplied with the correct spring tension, which is set at the factory. If the spring tension needs to be adjusted we recommend that this is only carried out by a suitably qualified Maintenance Engineer.

PLEASE NOTE: Spring adjustment must be carried out with the stairway in the closed position.

- It is important that a Ø10mm x 300mm long steel bar ('Tommy Bar') is used in the locating holes of the die-cast spring roller (item 8).
- To increase the tension, place the steel bar in the hole next to the domed headed stud (item 9) and rotate until the stud can be removed.
- Rotate the spring roller until it is possible to place the stud into the next hole adjacent to where the stud was removed. Once it is safely in position allow the roller to rotate slowly back so that the stud is back against the bracket and remove the steel bar.
- Both springs must be adjusted equally

PLEASE NOTE: The Springs (item 7) are under high tension so extreme caution and care must be taken when carrying out any adjustment. It is important that the correct size Steel Bar is used, if any doubt please contact us and ask to speak to a Technical Advisor.

The stairway would be fitted to an appropriate vertical surface above the trapdoor or ceiling. The stairway is supplied with a nylon hook (for trap door release and stairway raising/lowering) for fitting to a wooden operating pole. The operating pole is not generally supplied with the stairway.



Operating Procedure

1. Release the catch to the trapdoor and lower to allow access to the stairway.
2. Locate the nylon hook into the 'U' bolt found to the rear of the bottom tread.
3. Move slightly back away from the stairway and with the hook safely located in the 'U' bolt. Hold the pole at an angle and as high up the pole as possible to gain maximum control. Commence lowering the stairway by pulling down towards you.
4. Once the stairway has been lowered to an appropriate height, take hold of the stairway and remove the hook from the 'U' bolt. Continue to lower the stairway with both hands until it has been fully extended and sits firmly on the floor level.
5. Once the stairway is in this position, check that the treads are horizontal to the floor. If the treads are not horizontal when the stairway has been fully extended, then each individual tread can be adjusted in turn. This is carried out by slackening the two nuts on the underside of each tread enough to rotate to the correct level and then retightening the nuts. Repeat on all treads.
6. Once this has been done it is then safe to use the stairway.
7. When you have finished using the stairway have the wooden pole with the nylon hook ready to assist with the closure of the stairway.
8. Take hold of the bottom tread of the stairway and raise to a suitable height to locate the nylon hook into the 'U' bolt. Fully close the stairway by pushing the pole upwards towards the opening in the ceiling. Allow the stairway to fold back on itself to the stored position.
9. The stairway is designed with two counter-balance springs to hold it in the closed/stored position. The correct tension is set at the factory. It is very rare for the stairway springs to require re-tensioning. If however, the stairway does not stay in the stored position on its own, the tension needs to be increased by one notch with a 'Tommy Bar'. This adjustment is detailed in the Installation Instructions and must only be carried out by a qualified Maintenance Engineer.

Zig Zag stairways are well engineered and designed for minimum maintenance. They are supplied with counter-balanced springs set at the factory to ensure that the stairway can be raised and lowered smoothly with a minimum of effort.

We would recommend that regular checks are made to the stairway, to ensure that it is operating correctly. Lubrication of the joints with light duty industrial oil every six months would be advisable.

We would also recommend a visual check for cracks to the castings at the same time. We very rarely experience any faults or problems with the components. Any damage usually occurs through neglect or misuse of the stairway.

