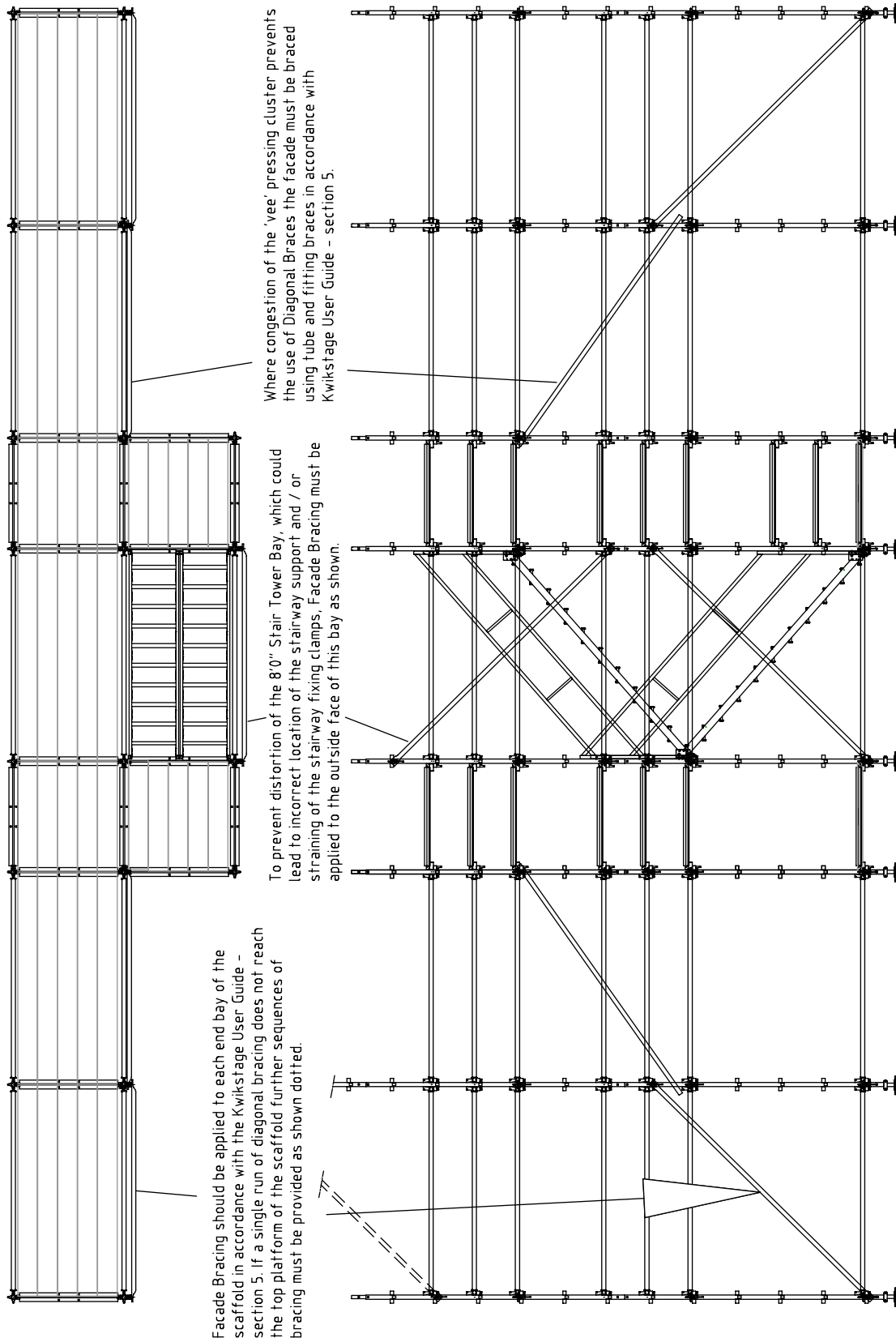




alu-stair user guide

Diagonal Facade Bracing of Kwikstage incorporating Stairway Bays



Note. To ensure the correct installation of Stairway units it is essential that the foundations of the scaffold are adequate to prevent disproportionate settlement and that all bays containing stairway stringers are level, plumb and square in plan otherwise the seating of the stairway units on the transoms may be inadequate. After initial setting out check that the first and subsequent stairway units fully engage onto the transoms and the securing clamps are located around the underside of the transom and the wing nuts tightened hand tight to prevent side slip and uplift.



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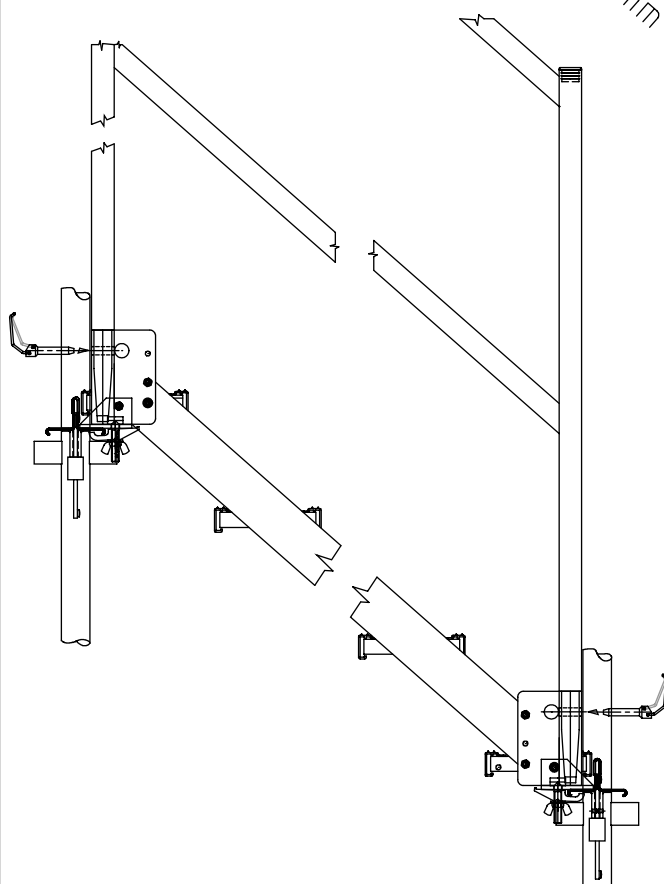
Alustair – Aluminium Stairway & Handrail Installation.

The stairway is designed to fit Genuine Kwikstage Scaffolding (Imperial) 8'0" long x 4'2" wide x 6'6" lift (2438.4mm x 1270mm x 1981.2mm).

Note 1. To ensure the correct installation of Stairway units it is essential that all bays containing stairway stringers are level, plumb and square in plan otherwise the seating of the stairway units on the transoms may be inadequate. If necessary use a tape measure to check the diagonal dimension of bays at both sides.

After initial setting out, the first and subsequent stairway units must be fully engaged onto the transoms – lowest end first – and the securing clamps must be located around the underside of the transom and the four wing nuts tightened hand tight to prevent side slip and uplift.

Note 2. The diagonal dimension for a 8'0" wide x 6'6" High Kwikstage bay is 3142mm. and for correct location of stairways must be maintained to within ± 5 mm using Kwikstage diagonal braces or tube and fitting bracing.



Note 3. To prevent the risk of falls, a pair of Handrails must be installed on each Stairway Stringer and must be locked in position using 12mm dia Spring Connecting Pins or m12 x 60 Bolts and Locknuts.

Note 4. Under no circumstances should this stairway equipment be used on other forms of System Scaffold including 'Copy Kwikstage' without reference to the Manufacturer, Technical Dept, Alsure Limited.



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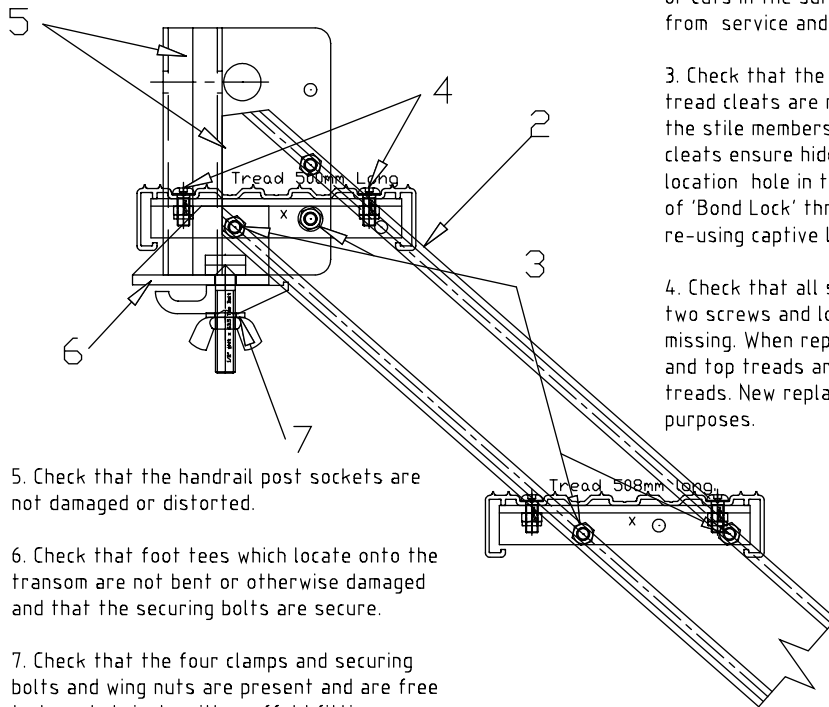
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Alsure - Alustair Inspection and Maintenance Schedule.



1. Remove all site dirt and debris using jet wash and detergent.
DO NOT USE CHEMICAL CLEANERS containing Acids or Alcalis as corrosion damage will occur.

2. Inspect side rails (Stiles) for damage such as dents or cuts in the surface or damaged tee slots - Remove from service and repair / replace if damaged.

3. Check that the bolts and Lock-nuts securing the tread cleats are not loose and that the tee-slots in the stile members are not distorted. When replacing cleats ensure hidden end of bolt locates in the drilled location hole in the stile whilst tightening (use 1 drop of 'Bond Lock' thread lock fluid on bolt threads if re-using captive lock nuts.)

4. Check that all stair treads are un-damaged and the two screws and lock-nuts at each end are not loose or missing. When replacing treads note that the bottom and top treads are 8mm shorter than the intermediate treads. New replacement nuts should be used for repair purposes.

5. Check that the handrail post sockets are not damaged or distorted.

6. Check that foot tees which locate onto the transom are not bent or otherwise damaged and that the securing bolts are secure.

7. Check that the four clamps and securing bolts and wing nuts are present and are free to turn. Lubricate with scaffold fitting lubricant.

8. Check handrail components for damage or distortion and check that welds are not cracked.

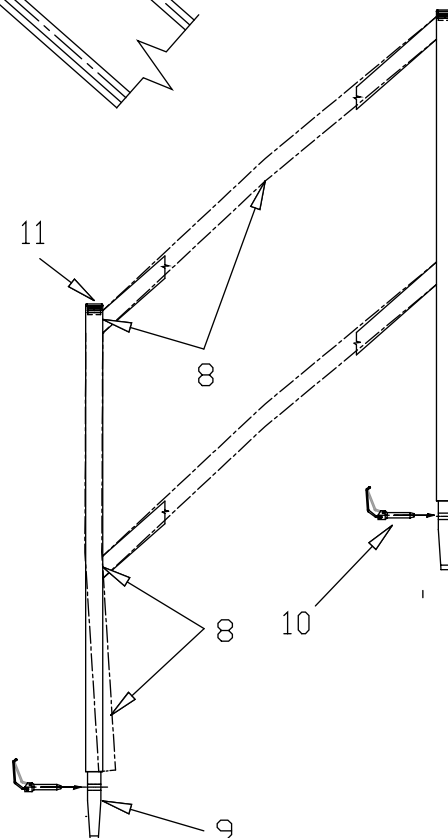
9. Check that Spigot castings are not bent, distorted or cracked.

10. Check that Connecting pins operate correctly and that 2 are present for each handrail unit.

11. Replace any missing or damaged post top protection caps.

Under no circumstances should any attempt be made to straighten aluminium components as they will be weakened and rendered unsafe. Weld repairs must be made in a workshop environment using argon shielded T.I.G. Welding, by skilled Aluminium Welders using compatible filler materials.

A kit of spare parts may be purchased from Alsure Ltd.



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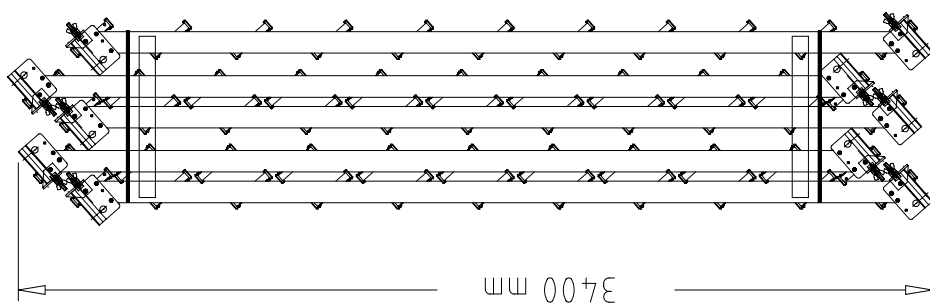
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Alsure – Alustair and Handrail unit. Spare Parts List.			
1. Extruded Stair Tread Top & Bottom, 180mm x 40mm x 500mm. – 2 per unit. 2. Extruded Stair Tread intermediate, 180mm x 40mm x 508mm. – 9 per unit. 3. Cleat Extrusion 38.1 mm x 25.4 mm x 160 mm long. – 10 R.H. & 1 Bottom L.H. (marked X) and 10 L.H. & 1 Bottom R.H. (marked O) per unit. 4. M8 x 25 Hexagon Bolt. BZP – 18 per unit. (Securing Cleat to Stile -downwards facing.) 5. M8 x 20 Hexagon Bolt. BZP – 18 per unit. (Securing Cleat to Stile – upwards facing.) 6. M8 x 60 Hexagon bolt. BZP – 8 per unit. (Securing Extruded Post Socket and Tee Support to Stile.) 7. M8 x 50 Hexagon bolt. BZP – 4 per unit. (Securing Extruded Post Socket to Stile.) 8. M8 Washers BZP. – 44 per unit. (Securing Cleat to Stile.) 9. M8 Nylon Insert Lock Nut BZP – 92 per unit. (All Nut Positions.) 10. M8 x 20mm Button Head Stainless Steel Socket Screw. – 44 per unit. (Securing Tread to Cleat). 11. Clamp extrusion, 1/2" Whit Clamp Screw, Washer and Wing-nut assy BZP. – 4 per unit – Crimp thread end on assy. 12. 12mm MK2 Connecting Pin & Spring Clip – BZP. – 4 per unit. 13. Plastic Post End Plug BLACK P.E. – 4 per unit. 14. 'Bond lock' Thread Locking Adhesive. (Note:- Additional locking fluid 1 drop per screw required when re-using captive nuts in stile.) Tools. 1. Tee handle Hexagon Key 5mm a/f. 2. M4 Masonry Drill – Removing Concrete from Screw Heads. 3. Welder's Chipping Hammer – Removing set Mortar and Concrete from Treads and Stiles. 4. 13mm a/f Ratchet Spanner.- 2 per kit.			
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Alsure – Alustair unit. Work Instruction. Bulk Stair packing.				TECHNICAL INFORMATION SHEET		TIS103/06		Revision C	
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	Stair unit Packing instructions. 1. After final inspection of all assembled components stack on edge in 5's rotated alternately end to end such that top post sockets nest together and Tee bolt ends touch stile section. The stair treads nest together between adjacent stiles. 2. Band using plastic strapping located as near to the ends of the bundle as possible ensuring bundles are closed together but avoid over tensioning of strapping. 3. Use 0.6 m or 1.2m long timber bearers to support the bundles placed as near to the ends as possible. Bundles may be stacked into packs of 10 units (1 wide x 2 high) or 20 units (2 wide x 2 high) and strapped together using strapping at the ends only. This pack will weigh up to 1/2 Tonne and may be safely loaded by fork lift truck. When loading for Transport, DO NOT STRAP THE CENTRE OF BUNDLE AS PERMANENT DAMAGE TO THE STAIR UNITS MAY RESULT
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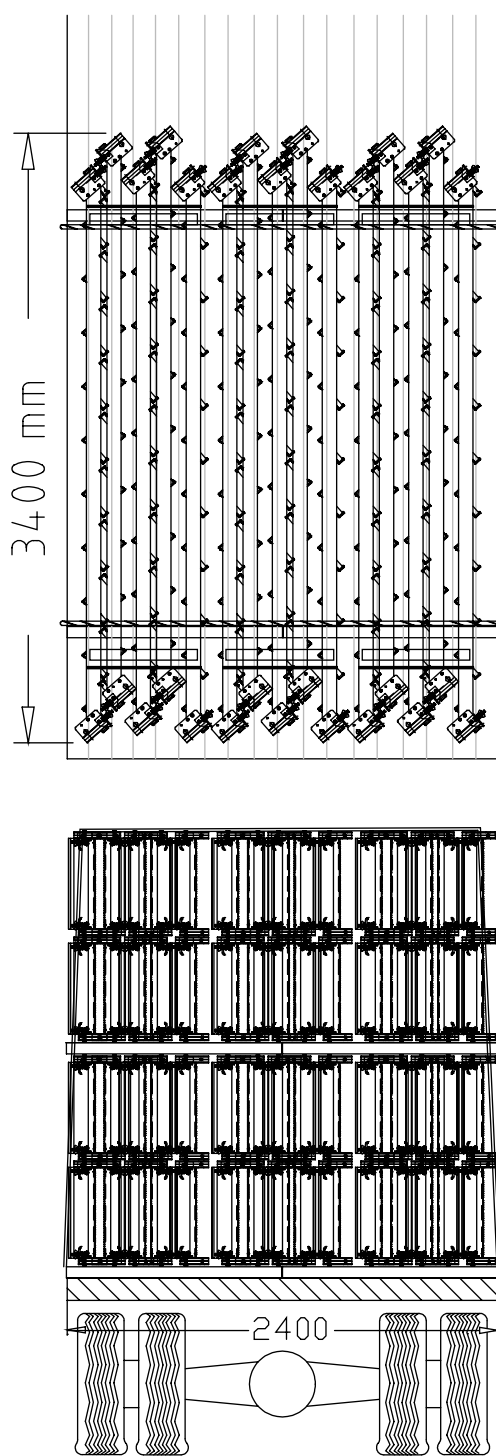
Alsure - Alustair Bulk Packing for Road Transport.

Stair unit Bulk Packing instructions for Road Transport.

For bulk transport bundles of 5 stairs may be strapped together into packs of 10 & 20 i.e. 1 bundle wide x 2 bundles high and 2 bundles wide x 2 bundles high strapped together onto timber bearers as necessary. These bundles weigh approx. 1/4 & 1/2 tonne respectively and may be safely lifted by fork truck.

These multiple bundles then may be safely loaded on a transport vehicle and secured by roping or by ratchet straps. Note. Ratchet straps can exert a tension of more than 1 tonne therefore, to prevent damage, timber bearers and straps / ropes must be positioned near to the ends of the bundles and the straps tightened sufficiently to restrain the load without damaging the stair units.

Dimensions are approximate. Stairs packed as shown = 60 units. Weight = 1.7 tonne approx.



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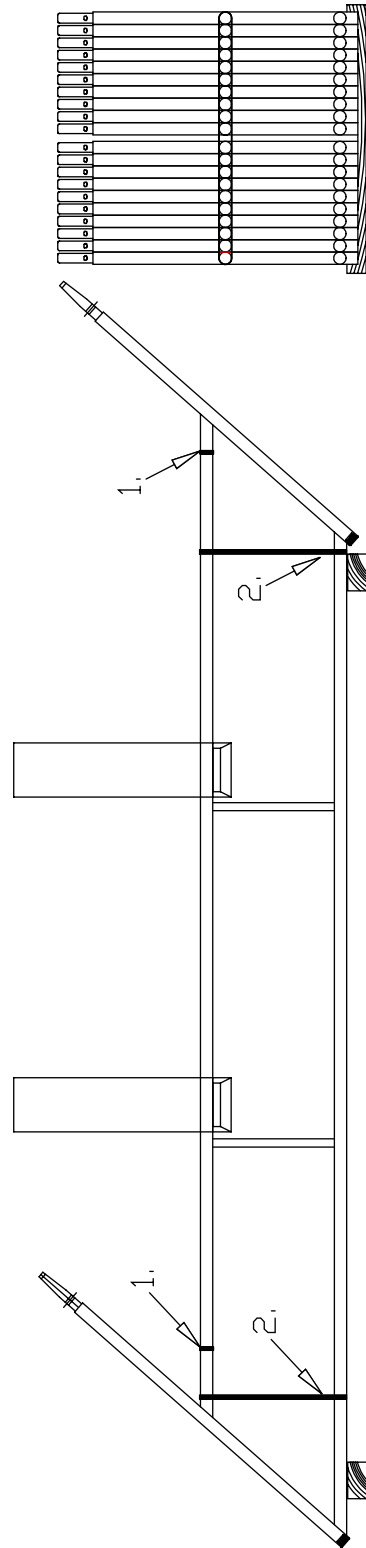
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Alsure - Alustair Handrail unit. Packing instructions.

Note: To prevent damage to components and to prevent the risk of injury whilst mechanically handling quantities of materiel, the following procedures should be adopted.

1. Pack upside-down aligned neatly in bundles of 10 and strap together around intermediate handrail using plastic strapping. To aid alignment, the bundle may be suspended from a pair of fork lift blades at a convenient height as shown.
2. For stability during transport place second bundle alongside and strap the two bundles together around the two handrails as shown. 3 bundles of 20 will fit across the width of a H.G.V. Trailer. Odd components should be strapped against a full bundle.



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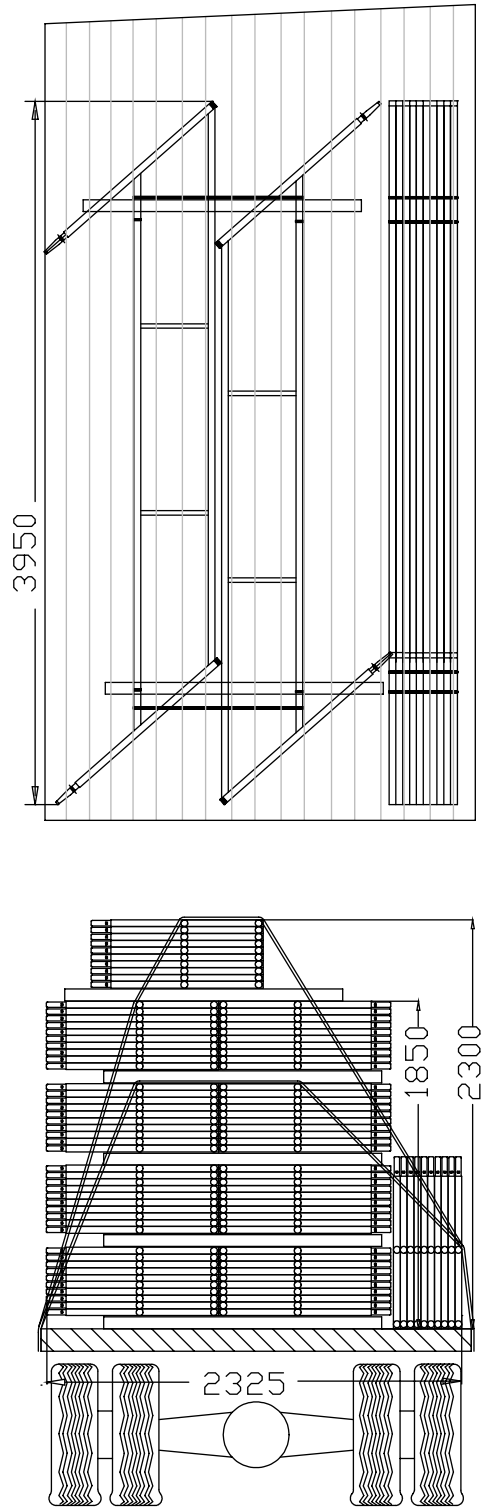
Alsure - Alustair Handrails Bulk Packing for Road Transport.

Note:

To prevent damage to components and to prevent the risk of injury whilst mechanically handling larger quantities of material, the following procedures should be adopted.

1. Pack upside-down aligned neatly in bundles of 10 and strap together around intermediate handrail as shown in TIS 103/08.
2. Rotate bundle on to one side and stack and band bundles neatly in pairs back to back. These bundles may then be stacked on top of one another using timber spacers positioned near to the ends of the bundles, and then strapped into multiple bundles before lifting. Long forks or fork extensions may be required to reach sufficiently far across the truck bed.
3. To prevent damage, timber bearers banding and load straps / ropes must be as near to ends of the bundles as possible.
4. Single stacks of handrails should not be mechanically lifted whilst on their sides as the centre of gravity of the bundle may cause the bundle to be unstable, lift single stacks upside down under the intermediate handrail.
5. It may be necessary to secure bundles to vehicle as loading progresses to prevent instability whilst loading and subsequently unloading.
6. To comply with Working at Height Regulations in may be necessary to strap the timber bearers to the bundles at ground level prior to lifting bundles to heights above 2.0 metres.

Caution! Ratchet straps can exert tensions exceeding 1 tonne each therefore over-tightening or poor positioning of straps may cause damage to components and must be avoided.



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