

TECH DATA REF: PROPPING

PRODUCT: TRISHORES
REFERENCE: TDP011-PAGE 1

shorehire.

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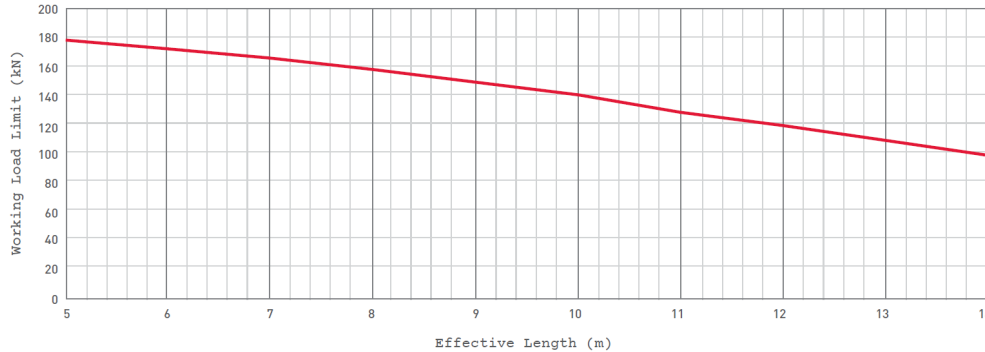
TECHNICAL DATA

Description

Trishore Props are a heavy load support system with capacity up to 178kN @ 5m effective height. Trishores consist of a base jack with a height adjustment of between 370 and 650mm and a flathead 173mm high, or a Head Jack with a height adjustment between 380 and 670mm. The main advantage of Trishores is they have the capability of supporting heavy loads at considerable heights.

Technical Specifications

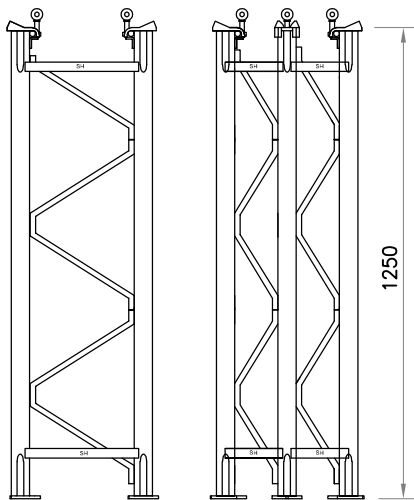
The following graph outlines the vertical W.L.L. for the Trishores used at heights ranging from 5m to 14m.



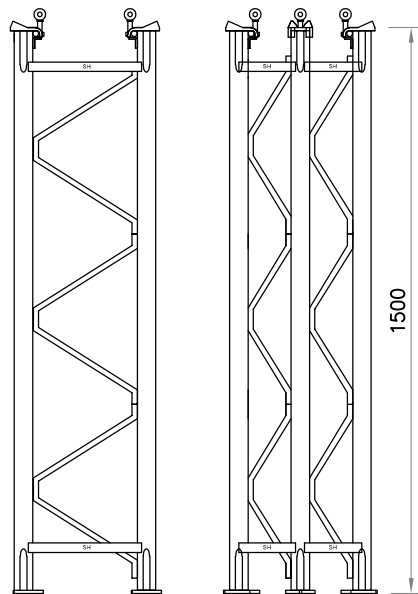
Notes:

The permissible loading given is for a free standing strut without intermediate bracing. Prop load rating can be increased by providing adequate bracing at intermediate points (to be calculated by a qualified structural engineer). To be effective, the bracing must be in two directions, preferably at right angles. In every case some cross bracing is essential for erection and stabilising against any lateral force. Bracing to be correctly fitted to Australian Standards requirements.

INTERMEDIATE SECTIONS



1250mm - INTERMEDIATE SECTION



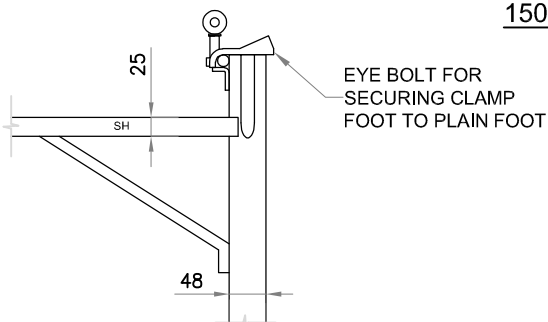
1500mm - INTERMEDIATE SECTION

NOTES

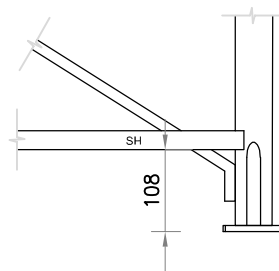
- All dimensions in mm U.N.O.
- Steel material to be manufactured to AS 3679 & a minimum grade 350 U.N.O.
- All welds to be 4mm minimum type SP to AS 1554.
- Nominal bend radius will require alignment of bending axis transverse to plate rolling direction (i.e. grain alignment) to avoid plate cracking.
- All hole openings are +/- 0.125mm U.N.O.
- All items are fully hot dip galvanised in accordance with AS 4680:2006.

TRISHORE SECTIONS

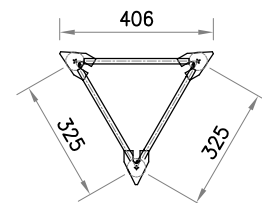
1250mm	28kg
1500mm	33kg
2000mm	41kg



CLAMP FOOT DETAIL



PLAIN FOOT DETAIL



BOTTOM VIEW

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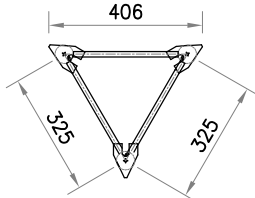
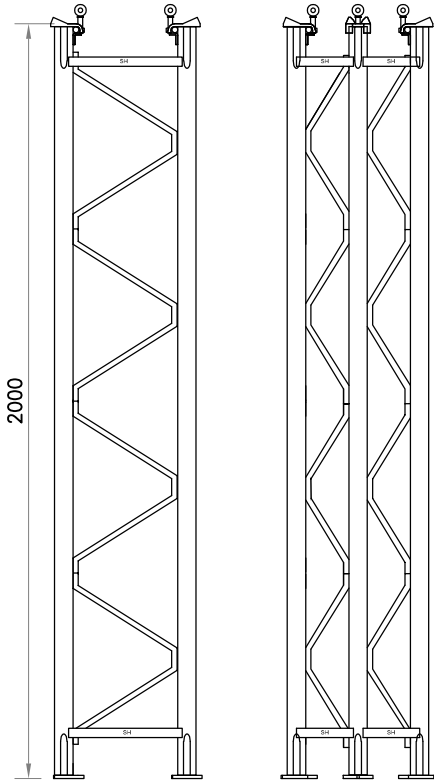
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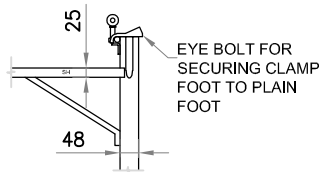
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TECHNICAL DATA

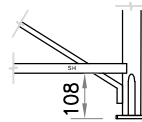
INTERMEDIATE SECTIONS



BOTTOM VIEW



CLAMP FOOT DETAIL



PLAIN FOOT DETAIL

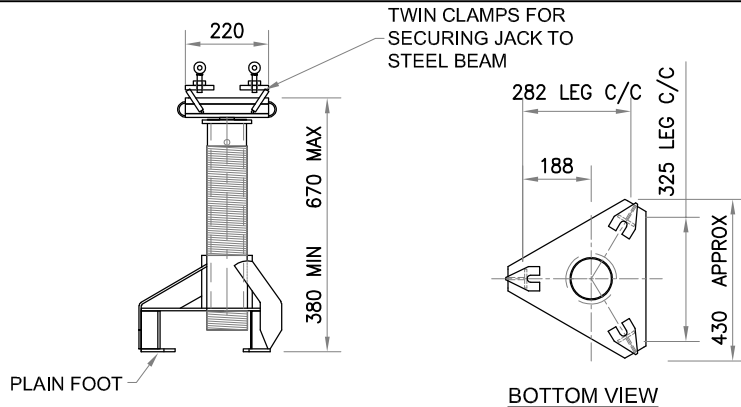
NOTES

1. All dimensions in mm U.N.O.
2. Steel material to be manufactured to AS 3679 & a minimum grade 350 U.N.O.
3. All welds to be 4mm minimum type SP to AS 1554.
4. Nominal bend radius will require alignment of bending axis transverse to plate rolling direction (i.e. grain alignment) to avoid plate cracking.
5. All hole openings are +/- 0.125mm U.N.O.
6. All items are fully hot dip galvanised in accordance with AS 4680:2006.

TRISHORE SECTIONS

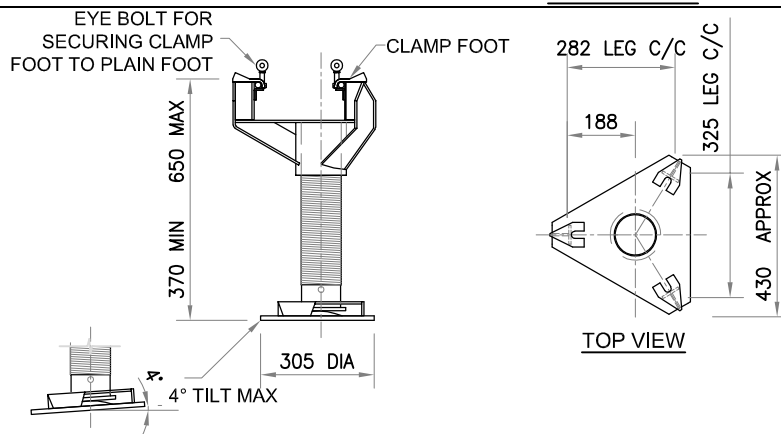
1250mm	29kg
1500mm	32.8kg
2000mm	41.8kg

2000mm - INTERMEDIATE SECTION



TRISHORE HEAD JACK

WEIGHT	32kg
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TRISHORE BASE JACK

WEIGHT	34kg
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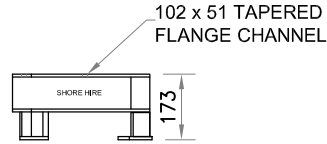
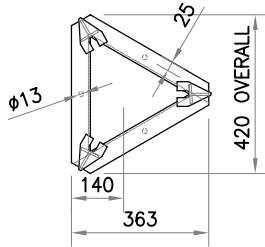
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TECHNICAL DATA



TRISHORE FLATHEAD

WEIGHT 14kg

TRISHORE COMPONENT SCHEDULE

Trishores consists of a Base Jack with a height adjustment of between 370 and 650mm, and a Flathead 173mm high, or a Head Jack with a height adjustment between 385 and 665mm.

The Intermediate Sections required for various overall heights are tabulated below:-

MASS (kgs)	BASEJACK & FLATHEAD (m)	SECTIONS REQUIRED			BASEJACK PLUS HEADJACK (m)	MASS (kgs)
		1.25m	1.5m	2.0m		
79	1.79 - 2.07	1			2.01 - 2.57	100
82	2.04 - 2.32		1		2.26 - 2.82	104
91	2.54 - 2.82			1	2.76 - 3.32	113
108	3.04 - 3.32	2			3.26 - 3.82	129
111	3.29 - 3.57	1	1		3.51 - 4.07	133
115	3.54 - 3.82		2		3.76 - 4.32	136
120	3.79 - 4.07	1		1	4.01 - 4.57	142
124	4.04 - 4.32		1	1	4.26 - 4.82	145
137	4.29 - 4.57	3			4.51 - 5.07	158
133	4.54 - 4.82			2	4.76 - 5.32	154
144	4.79 - 5.07	1	2		5.01 - 5.57	165
149	5.04 - 5.32	2		1	5.26 - 5.82	171
153	5.29 - 5.57	1	1	1	5.51 - 6.07	174
157	5.54 - 5.82		2	1	5.76 - 6.32	178
162	5.79 - 6.07	1		2	6.01 - 6.57	183
166	6.04 - 6.32		1	2	6.26 - 6.82	187
178	6.29 - 6.57	3		1	6.51 - 7.07	200
175	6.54 - 6.82			3	6.76 - 7.32	196
186	6.79 - 7.07	1	2	1	7.01 - 7.57	207
191	7.04 - 7.32	2		2	7.26 - 7.82	212
195	7.29 - 7.57	1	1	2	7.51 - 8.07	216
199	7.54 - 7.82		2	2	7.76 - 8.32	220
204	7.79 - 8.07	1		3	8.01 - 8.57	225
208	8.04 - 8.32		1	3	8.26 - 8.82	229
220	8.29 - 8.57	3		2	8.51 - 9.07	241
217	8.54 - 8.82			4	8.76 - 9.32	238
228	8.79 - 9.07	1	2	2	9.01 - 9.57	249
233	9.04 - 9.32	2		3	9.26 - 9.82	254
237	9.29 - 9.57	1	1	3	9.51 - 10.07	258
241	9.54 - 9.82		2	3	9.76 - 10.32	262

TECHNICAL DATA

Trishore Design Considerations

The main member of the Trishore Intermediate Sections is currently manufactured from $\varnothing 48.3 \times 3.2$ mm wall G350 tube. Earlier versions were manufactured using a 2" x 2" x $\frac{1}{4}$ " "T" section.

The Trishore intermediate sections are connected together by their mating plates and a swing over eyebolt. The capacity for this connection to withstand tensile forces is nominal.

- Trishores shall not be used in tension.
- The effective length can be reduced as shown by correctly fitting bracing. Specific applications should be checked with the Shore hire Engineering Department.
- When tube bracing is required in both directions, at least one of the two tubes shall be connected to 2 of the Trishore legs.

Trishore Arrangements

- Where the Trishore is utilised as back propping to a slab, any of the two systems listed below can be used:

a. Base Jack, Intermediate sections, Head jack and Head Jack Adaptor

The Head Jack Adaptor sits on top of the rail head, it is not secured to the rail head and distributes the load to a large base area.

b. Base Jack, Intermediate sections and Flathead

When a Flathead is used a single ply packer should be placed between the Flathead and the slab to take up any minor variations in the concrete surface.

- The two Trishore arrangements that may be used for back propping may be used inverted provided the same requirements are met.
- Trishores may be constructed using a Head jack at each end of the prop without any reduction in capacity. One of the Head Jacks will need to be secured to the intermediate section using 3 no. M16 x 40mm Hex Hd Bolts G8.8.

