

TECH DATA REF: PROPPING

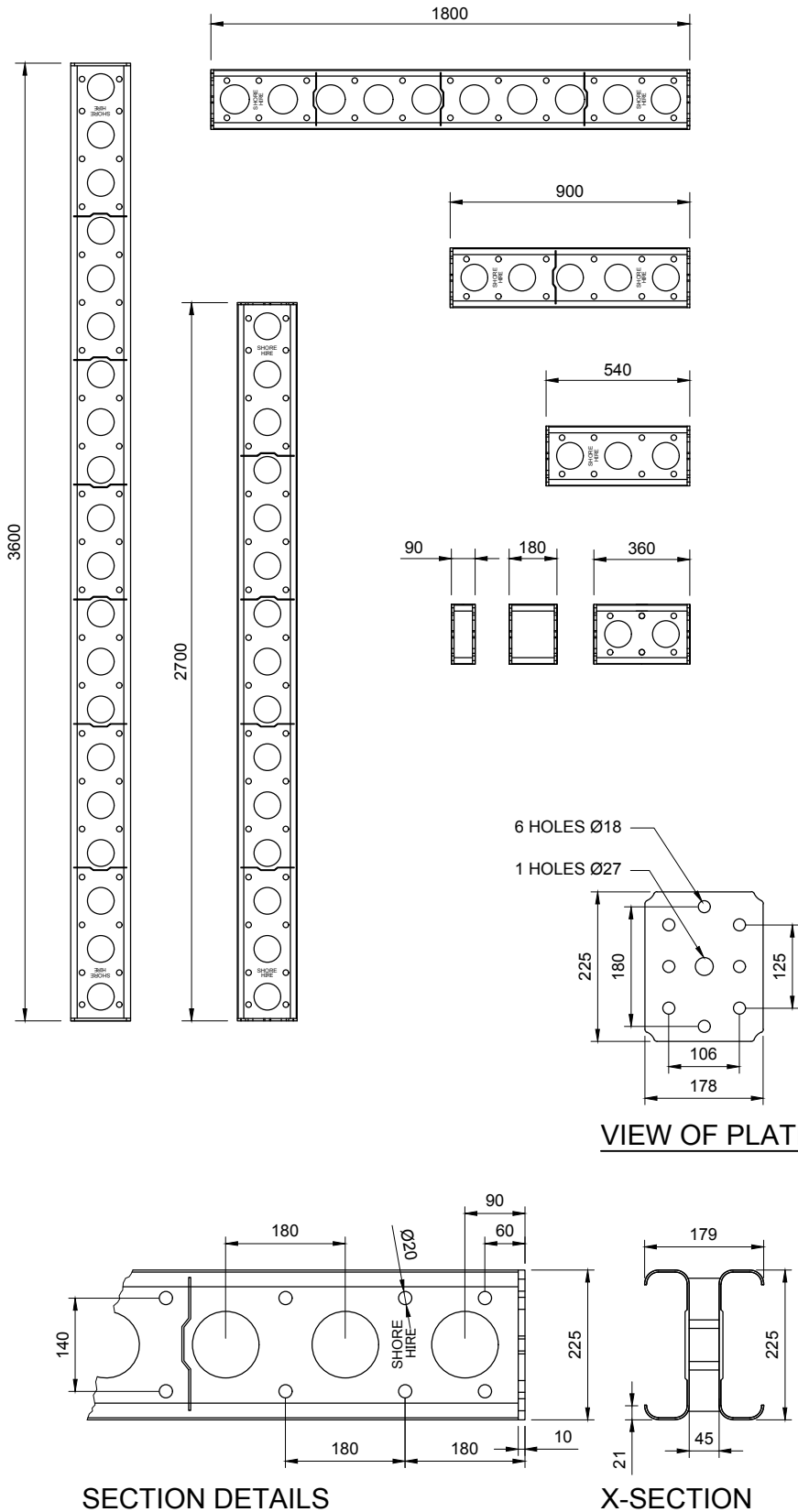
**PRODUCT: SHORE 100**

**REFERENCE: TDP01-PAGE 1**

**shorehire.**

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# TECHNICAL DATA



## 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. Alternative grade 55 class 1 to ASTM A607-98.
4. All welds to be 4mm minimum type SP to AS1554.
5. Nominal bend radius will require alignment of bending axis transverse to plate rolling direction (i.e. grain alignment) to avoid plate cracking.
6. Non-destructive testing of all bend surfaces and all welds has been carried out in accordance with the standards.
7. All hole openings are +/- 0.125mm U.N.O.
8. All items are fully hot dip galvanized in accordance with AS4680.
9. Details of all other shore 100 prop accessories are outlined within this technical document.
10. Compatibility with the shore 400, shore 1000 and titan prop categories are outlined within this technical document.

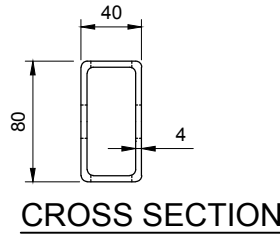
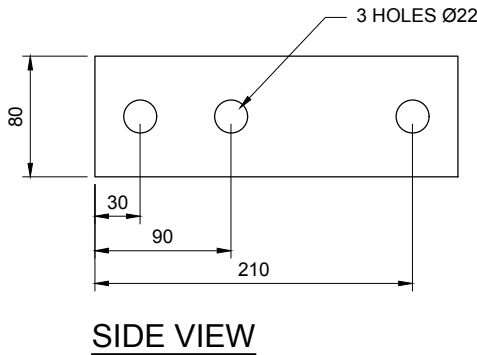
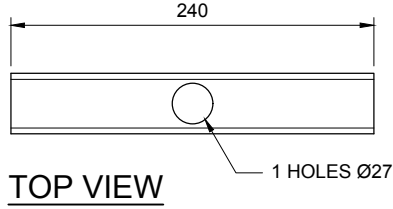
## SHORE 100 SECTIONS

90mm	7.3kg
180mm	8.8kg
360mm	12.4kg
540mm	16.0kg
900mm	22.1kg
1800mm	40.0kg
2700mm	55.0kg
3600mm	73kg

## SHORE 100 PROPERTIES

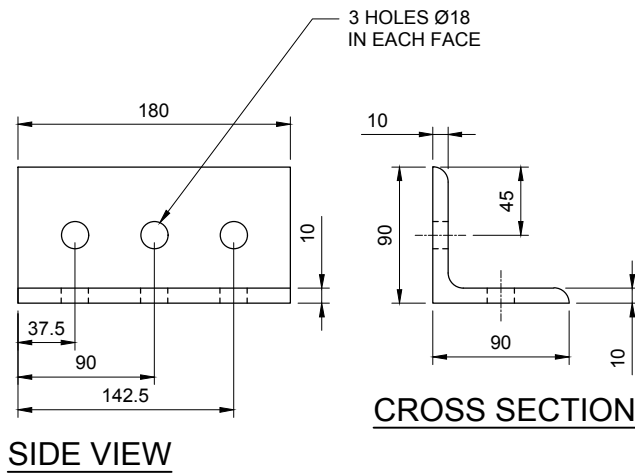
Cross Sectional Area:	2460mm <sup>2</sup>
Moment of Inertia in X:	17.9x10 <sup>6</sup> mm <sup>4</sup>
Moment of Inertia in Y:	5.6x10 <sup>6</sup> mm <sup>4</sup>
Radius of Gyration in X:	85.3mm
Radius of Gyration in Y:	47.8mm
Elastic Modulus in X(Zxx):	159x10 <sup>3</sup> mm <sup>3</sup>
Elastic Modulus in Y(Zyy):	62.6x10 <sup>3</sup> mm <sup>3</sup>
Plastic Modulus in X(Zxx):	190.6x10 <sup>3</sup> mm <sup>3</sup>
Plastic Modulus in Y(Zyy):	101.6x10 <sup>3</sup> mm <sup>3</sup>
Young Modulus (E):	200x10 <sup>3</sup> MPa
Minimum Yield Stress (fy):	345MPa

# TECHNICAL DATA



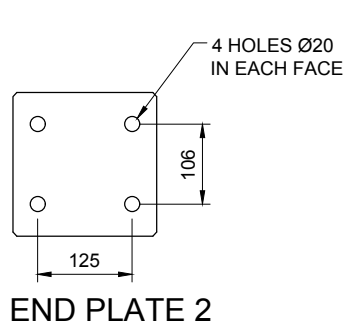
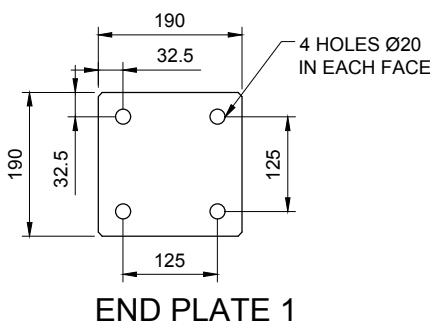
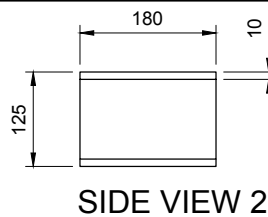
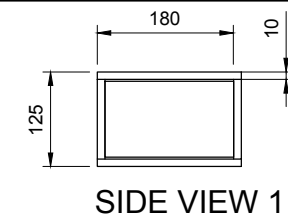
## SHORE 100 END PLATE ADAPTOR AND SCAFFOLD BRACKET (1.67kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



## CONNECTION ANGLE (2.14kg)

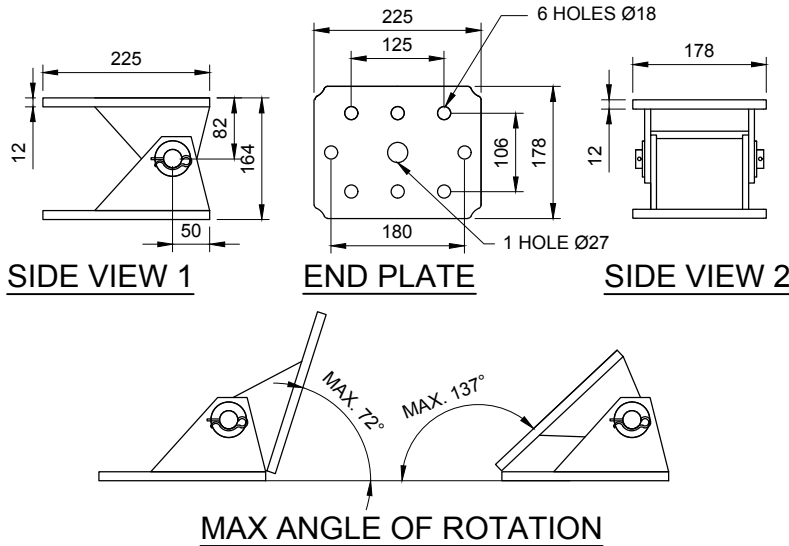
1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
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5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



## SH400 - SH100 FLANGE CONNECTOR (11.0kg)

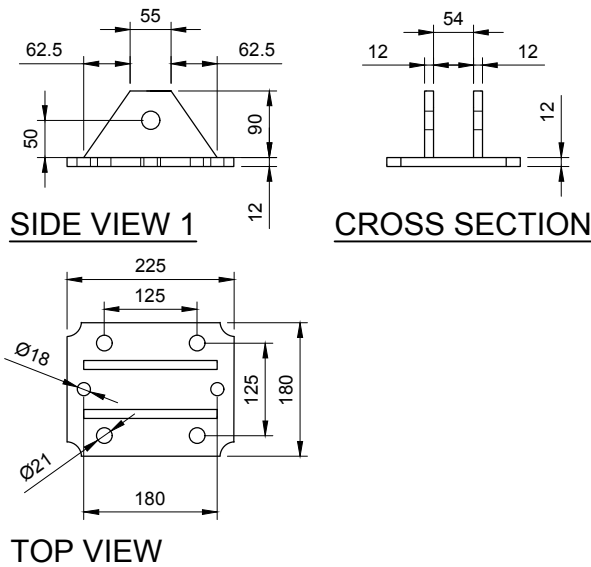
1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.

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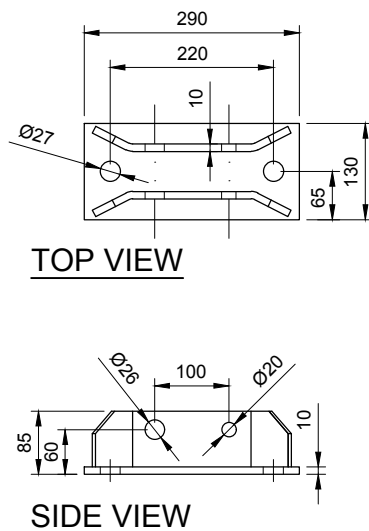
## SHORE 100 ROCKING HEAD (9.7kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



## SHORE 1000 STRUT ADAPTOR (1.6kg)

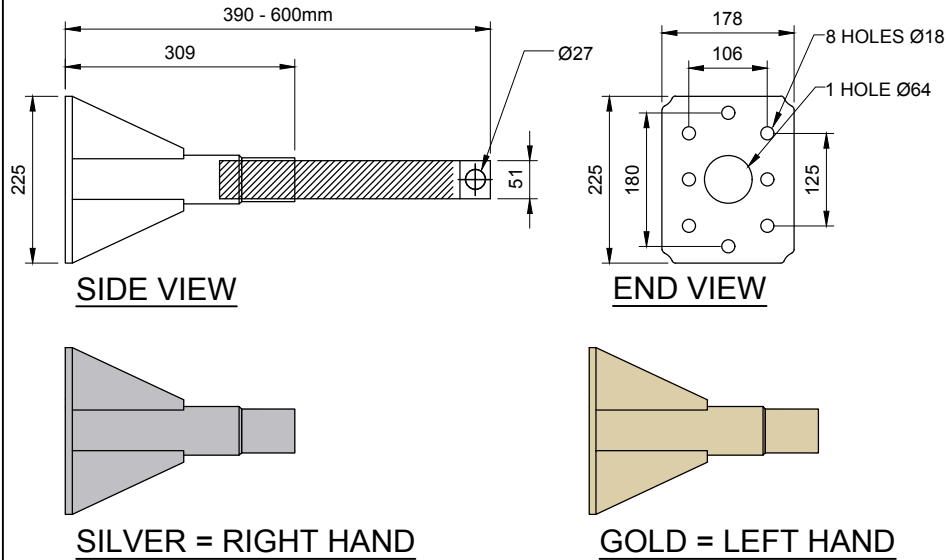
1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



## SHORE 100 TILT BASE (6kg)

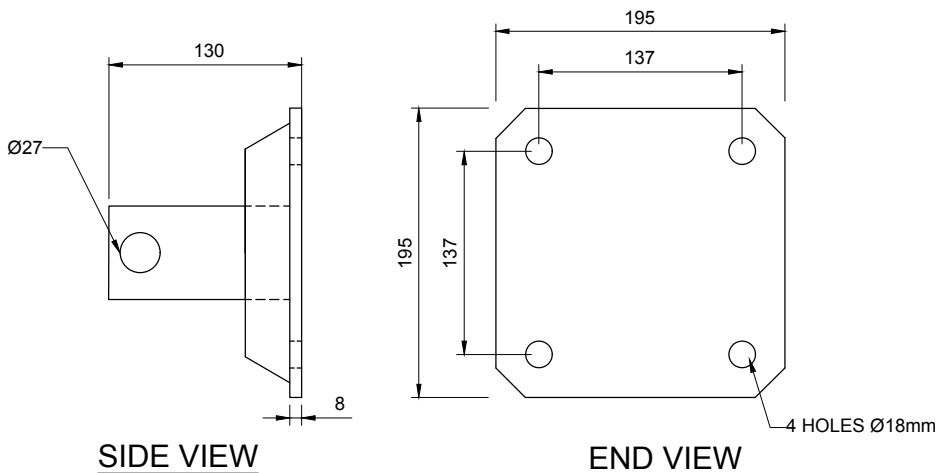
1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.

# TECHNICAL DATA



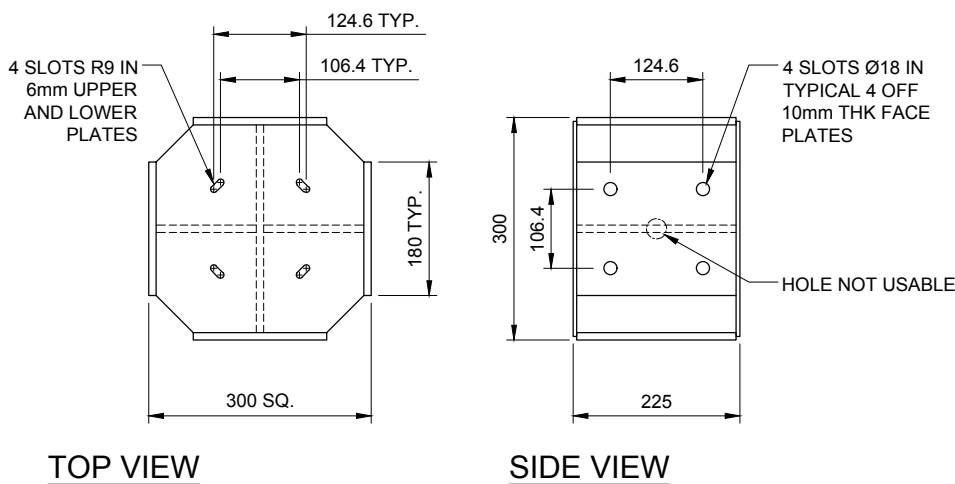
## SCREW JACKS (12.8kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



## FOOT ADAPTOR (5.2kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.



## SH100 SIX WAY CONNECTOR (25.0kg)

1. All dimensions in mm U.N.O.
2. Steel material to be minimum Grade 350 in accordance with AS 3769.
3. Section steelwork is to be hot dipped galvanised to AS 4680:2600.
4. All hole openings are +/- 0.125mm U.N.O.
5. All welding to be minimum 6mm C.F.W. to class SP of AS 1554.

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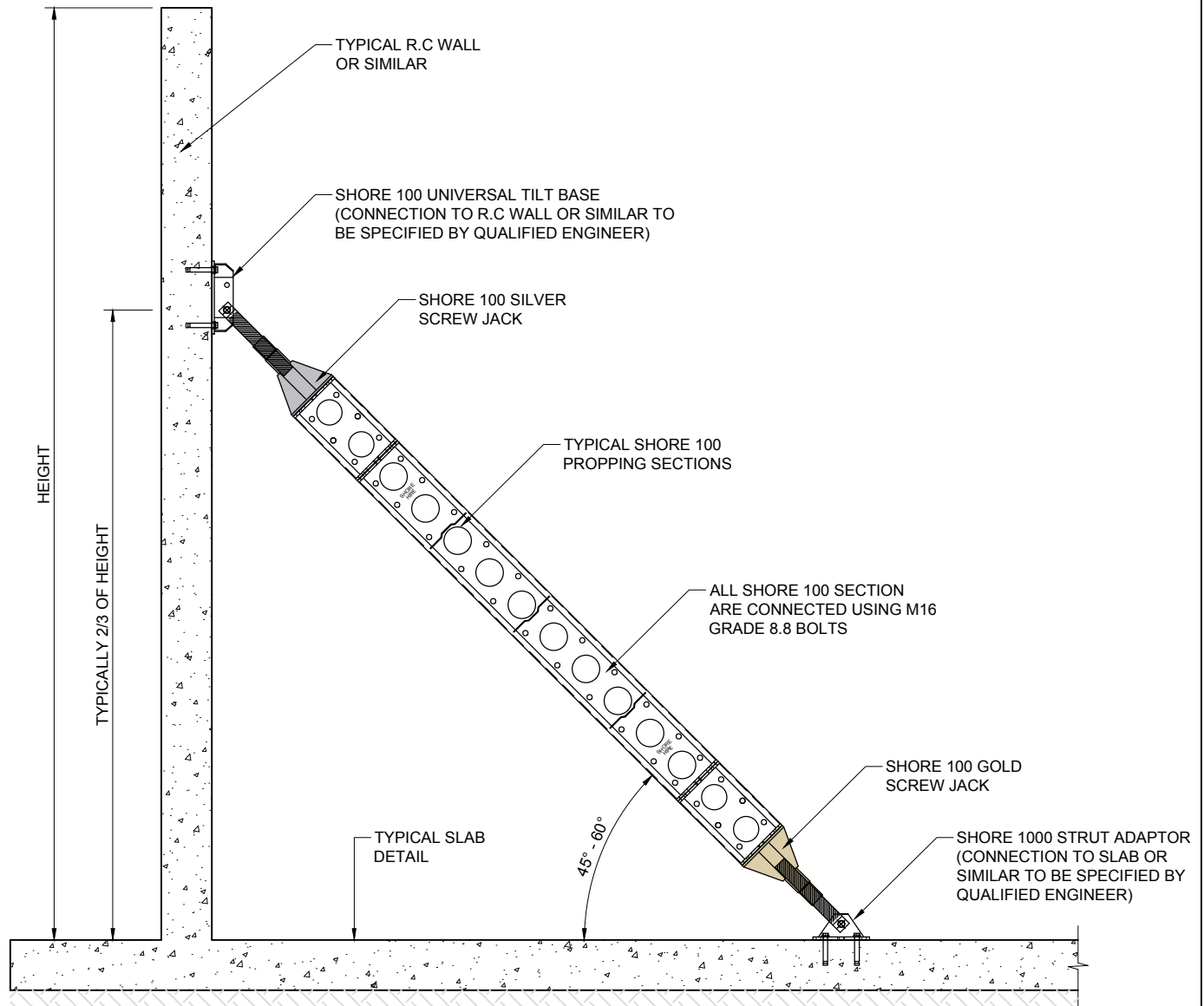
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# TECHNICAL DATA



## TYPICAL SHORE 100 RAKING PROP APPLICATION

### Shore 100 Raking Prop Design Considerations

This is just an example of a typical raking prop scenario. An appropriately qualified professional engineer should assess each design specifically in accounting for the following:

1. The size and number of props for each concrete element according to the loads, type and size of concrete element and if applicable, the wind rating of the site.
2. The type of connection for the prop to the concrete element and the prop to the dead-man, slab or footing at the base.
3. The type of structure that the bottom foot of the prop is attached to. This could be a dead-man, slab or footing.
4. The position of the top and bottom connections and the strength of the concrete of the substrate at both locations.

Refer to TDP01-Page 7 for shore 100 raking capacities.

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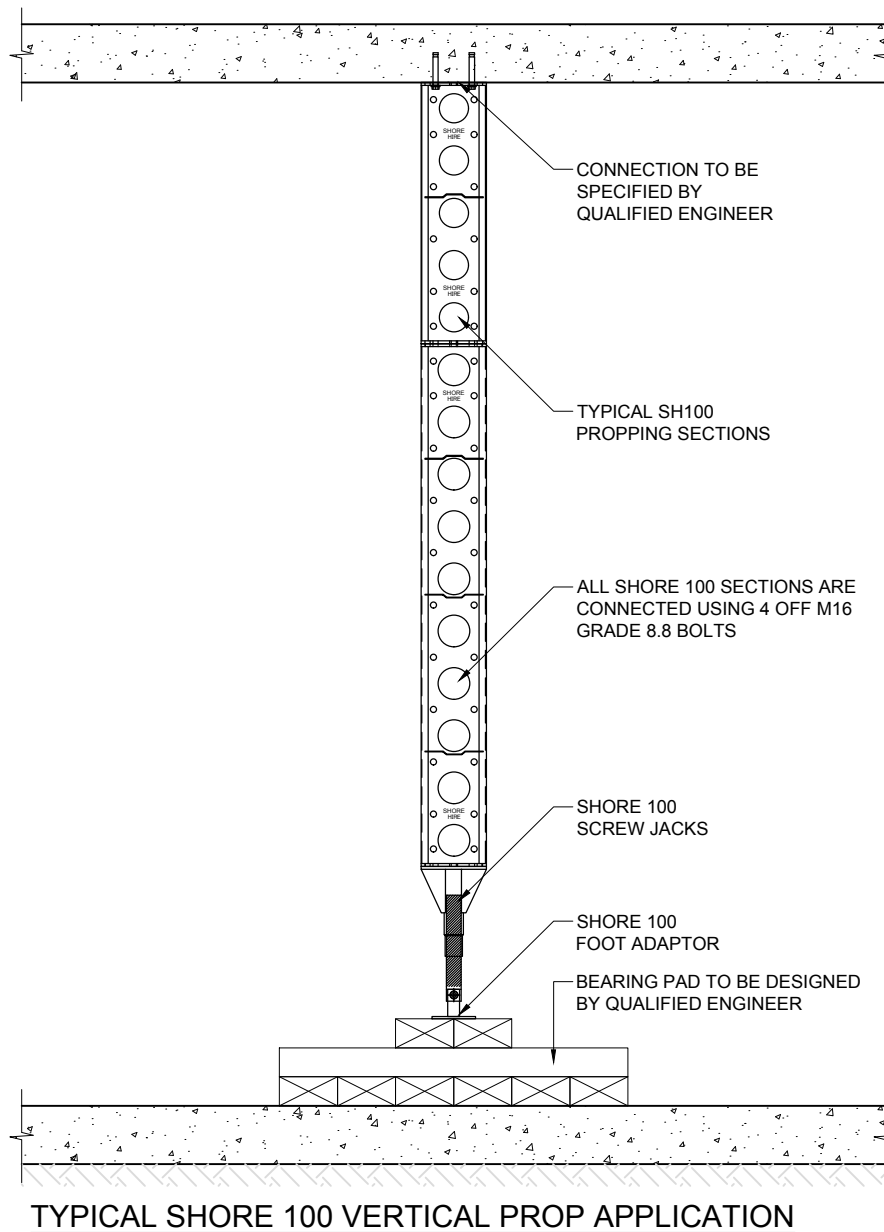
PRODUCT: SHORE 100

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## TECHNICAL DATA



### Shore 100 Vertical Prop Design Considerations

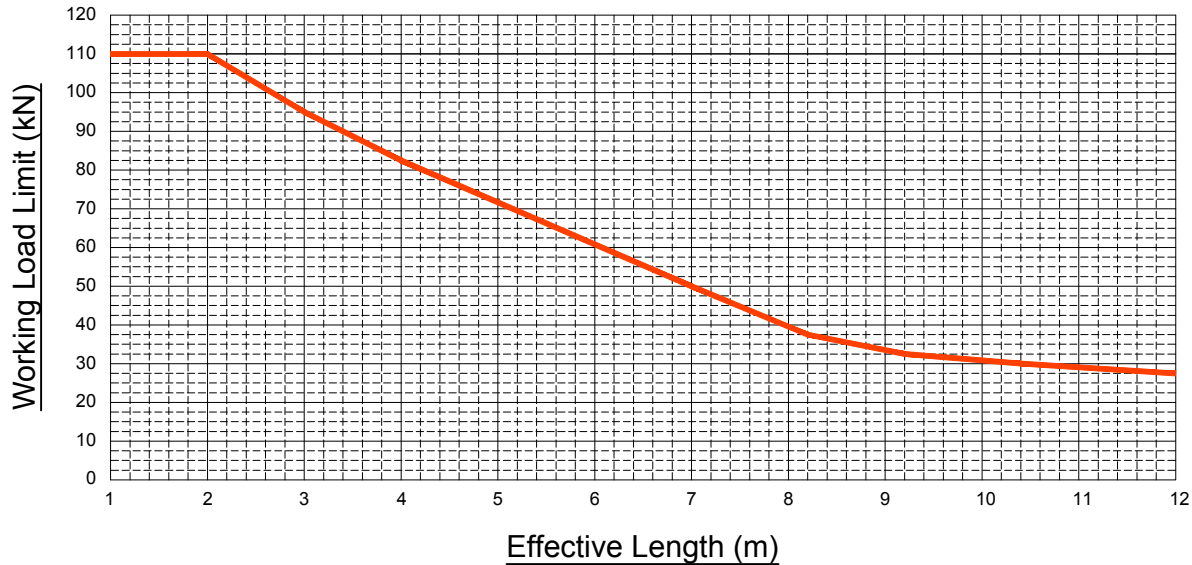
This is just an example of a typical vertical prop scenario. An appropriately qualified professional engineer should assess each design specifically in accounting for the following:

1. The size and number of props for each scenario according to the loads, type, sizes and other potential factors that need to be considered upon consultation with all relevant parties of each site.
2. The type of connection for the prop to the concrete element and the prop to the dead-man, slab or footing at the base.
3. The type of structure that the bottom foot of the prop is attached to. this could be a dead-man, slab or footing.
4. The position of the top and bottom connections and the strength of the concrete of the substrate at both locations.

Refer to TDP01-Page 7 for shore 100 vertical capacities.

# TECHNICAL DATA

## Shore 100 Vertical Prop Working Load Limits



The Vertical Working Load Limit capacity chart is based on the following principles of design:

1. A Shore 100 Jack is positioned at the base and both ends are laterally restrained.
2. The working load limit values are the limit state design capacity values divided by a load factor of 1.5.
3. An eccentricity of axial load of L/200 has been applied around the minor axis.
4. All assembly bolts are fully tensioned.

## Shore 100 Raking Prop Working Load Limits

Effective Length (mm)	Horizontal	Angle of Raking Shore to the Horizontal						Vertical	
		10	20	30	40	45	50		60
2000	110	110	110	110	110	110	110	110	110
2900	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7	104.7
3800	95.2	95.3	95.4	95.5	95.8	95.9	96.1	96.4	97.6
4700	79.0	79.0	79.5	80.3	81.5	82.2	83.0	84.7	91.2
5600	59.0	59.1	59.5	60.3	61.5	62.2	62.9	64.7	70.9
6500	43.2	43.3	43.9	44.8	46.3	47.1	48.1	50.2	57.9
7400	32.8	32.9	33.5	34.6	36.2	37.2	38.2	40.6	49.2
8300	22.2	22.4	23.1	24.5	26.5	27.7	28.9	33.5	42.6
9200	15.7	15.9	16.7	18.2	20.3	21.6	23.1	25.5	37.8

The Vertical Working Load Limit capacity table for raking applications of various angles is based on the following principles of design:

1. A universal tilt base and jack are positioned at both ends and are laterally restrained.
2. The working load limit values are the limit state design capacity values divided by a load factor.
3. An eccentricity of axial load of L/200 has been applied around the minor axis.
4. All assembly bolts are fully tensioned.
5. The effective length of the raking prop is to be taken as the linear measurement between the universal tilt base at both ends.
6. Raking prop is aligned such that bending due to gravity is about the major axis.
7. For effective lengths greater than 8600mm, it is recommended that the props should be used for wind loading applications only.

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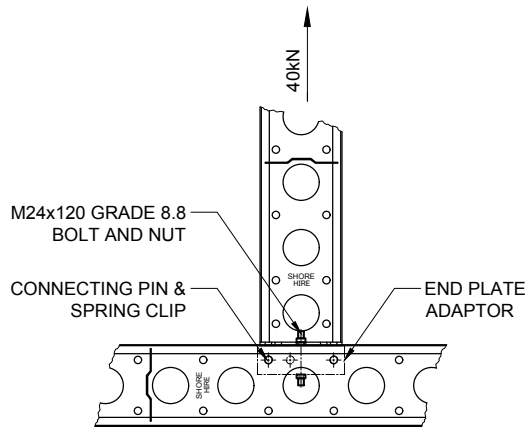
**REFERENCE:** TDP01-PAGE 8

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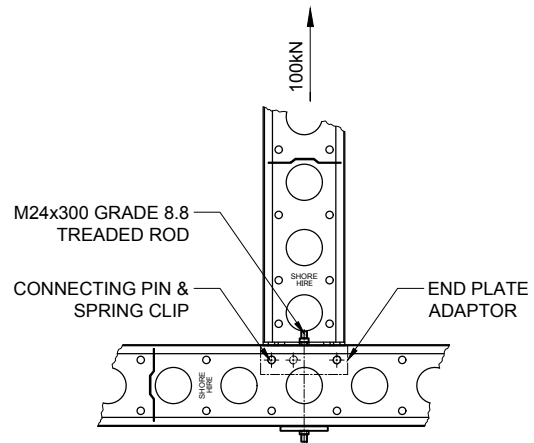
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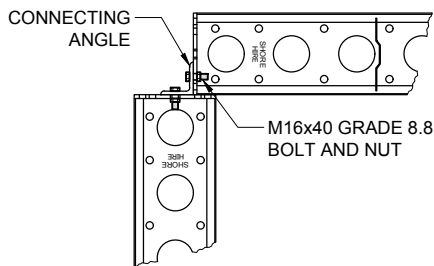
## Shore 100 Typical Connection Details



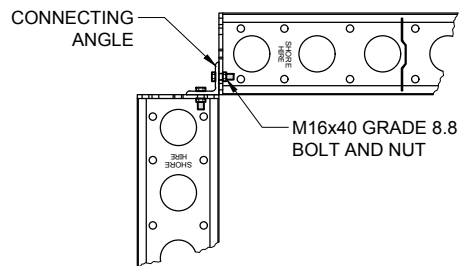
END PLATE ADAPTOR (1)



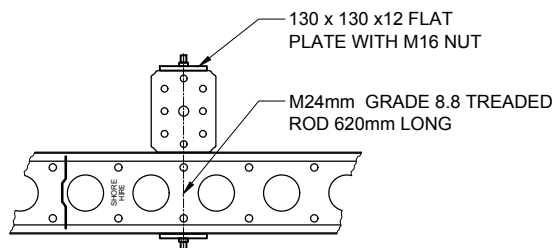
END PLATE ADAPTOR (2)



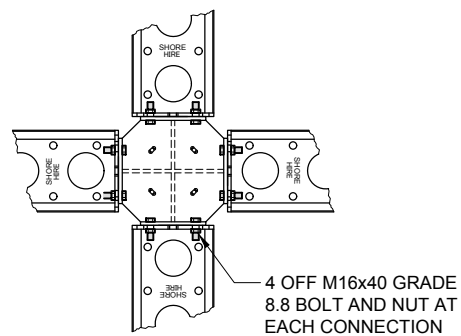
CONNECTION ANGLE (1)



CONNECTION ANGLE (2)



SH100 TO SH100



6 WAY ADAPTOR CONNECTION