PRODUCT: SHORE 400 REFERENCE: TDP02-PAGE 1



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SIDE VIEW



VIEW OF ENDPLATE



NOTES

- All dimensions in mm U.N.O. 1.
- Steel material to be manufactured to AS 2. 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.
- All hole openings are +/- 0.125mm U.N.O. 5.
- All items are fully hot dip galvanised in 6. accordance with AS 4680.
- Details of all other Shore 400 prop 7. accessories are outlined within this technical document.
- Compatibility with the Shore 100, Shore 8. 1000 and Titan prop categories are outlined within this technical document.

SHORE 400 SECTIONS

125mm	8kg
250mm	11kg
500mm	18kg
1000mm	30kg
2000mm	56kg

SHORE 400 PROPERTIES

Cross Sectional Area: Moment of Inertia in X: Moment of Inertia in Y: Radius of Gyration in X: Radius of Gyration in Y: Elastic Modulus in X(Zxx): Elastic Modulus in Y(Zyy): Plastic Modulus in X(Zxx): Plastic Modulus in Y(Zyy): Young Modulus (E): Minimum Yield Stress (fy):

3348mm² 17.37x10⁶mm⁴ 9.97x10⁶mm⁴ 72.03mm 54 58mm 183x103mm3 105x103mm3 220x103mm3 166x103mm3 200x103MPa 340MPa

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TECHNICAL DATA

Shore 400 Vertical Prop Working Load Limits



EFFECTIVE LENGTH

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

1. A Shore 400 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 400 Raking Prop Working Load Limits

	Horizontal	٩		ngle of Raking				Vertical	
Length 0°	° 0	10 °	20 °	30 °	40 °	45 °	50 °	60 °	90 °
1000mm	510.0kN	510.0kN	510.0kN	510.0kN	510.0kN	510.0kN	510.0kN	510.0kN	510.0kN
2000mm	435.8kN	436.0kN	436.3kN	436.9kN	437.6kN	438.0kN	438.5kN	439.4kN	442.8kN
2500mm	377.9kN	378.2kN	378.8kN	379.5kN	380.6kN	381.0kN	381.7kN	383.0kN	387.6kN
3000mm	325.4kN	325.6kN	326.2kN	327.2kN	328.5kN	329.2kN	330.0kN	331.6kN	337.3kN
3500mm	285.5kN	285.8kN	286.5kN	287.7kN	289.3kN	290.1kN	291.0kN	293.0kN	299.9kN
4000mm	255.1kN	255.5kN	256.4kN	257.7kN	259.5kN	260.5kN	261.6kN	264.1kN	272.2kN
4500mm	229.7kN	230.2kN	231.3kN	232.9kN	234.9kN	236.1kN	237.3kN	240.2kN	249.7kN
5000mm	207.1kN	207.6kN	208.8kN	210.7kN	212.9kN	214.3kN	215.7kN	218.9kN	229.6kN
5500mm	185.8kN	186.5kN	187.6kN	189.7kN	192.2kN	193.7kN	195.3kN	198.7kN	210.6kN
6000mm	165.0kN	165.7kN	167.0kN	169.1kN	172.0kN	173.4kN	175.2kN	179.0kN	191.9kN
3500mm	144.3kN	145.0kN	146.5kN	148.7kN	151.6kN	153.1kN	154.9kN	159.0kN	172.5kN
7000mm	123.5kN	124.2kN	125.7kN	128.0kN	130.8kN	132.5kN	134.3kN	138.5kN	152.2kN

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.