

Data Sheet

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Date Created:	31 Jul 2026	Engineering Certification No:	TBA
Client:	Windsocks Australia	Product Drawing No:	ZLRG2065A
Product Code & Description:	MH10BHH - 10M Extra Heavy Duty Mid Hinged Tapered Octagonal Pole		
Exact Project Location:	Cape Preston Australia - Sino Iron Project	Client Pole Spec Reference:	
Client Order No:	Quote		
Contact:	Steve Lyons		

Approximate slope of land within 1km:	Unknown
Description of land within 2km: eg. Suburbs, city, wooded terrain, open grassland, water or airfields:	Unknown
Distance to closest structure: eg. Houses, place of business, grandstand:	Unknown
Description of closest structure:	Unknown

Wind Loading Parameters			
Wind Region (A, B, C or D) (See Below)	D	Importance Level (Refer AS1170.0) (See Below)	2
Terrain Category (1, 2, 2.5, 3 or 4)	2	Topographic Multiplier	1.00
Design Life	25 years	Shielding Multiplier	1.00
Wind Return Period R	200	Directional Multiplier	1.00
Wind Return Period For Deflection	50	Climate Change Multiplier	1.05

Normal structures and structures not falling into other levels
Refer Calc: Sheet

Design Wind Speed	
Ultimate	Vdes0 (m/s) 75.6
	Vdes0 (km/h) 272.2
50-year Return Period	Vdes0 (m/s) 63.0
	Vdes0 (km/h) 226.8

Geometry	
Cross Sectional Shape	Octagonal
No of Sections	2
No of Fittings	2
Is Solar Box Required? (Yes / No)	No
Solar Box Size Required (Large/Small)	N.A.
Tip Diam/Across Flats mm/s (OD)	130
Base Diam/Across Flats mm/s (OD)	277
Total Pole Height (Metres)	10
HD Bolt Pitch Circle Diameter (PCD)	538

8 Sides

Natural Frequency	3.2
Pole Drag Coefficient (C _{Dr})	1.4

OK

Pole Load Checklist		Act Defl (mm's)	
Section Live Load Check	PASS		
Deflection Code Limit (mm's)	667	Deflection Ok	133.2
Holding Down Bolts Check	4 Bolt Ok	8 Bolt Ok	12 Bolt Ok
Baseplate Thickness Check	Ok	Ok	Ok

Pole Mounting Equipment (1-10)	Fitting 1	Fitting 2
Description	LA-ADAPT	Windsock 450mm Dia
Fitting sail area (m ²)	0.005	0.159
Outreach arm sail area (m ²)		
Fitting drag coeff (Cd)	1.2	2
Arm drag coeff (Cd)		
Height above base (m)	10	10.225
Fitting weight (kg)	3	5
Arm length (m)	0	0.225
Arm weight (kg)		

Results - Ultimate		Results - Working	
Ultimate Design Moment at Pole Base Plate Level	54.9 (kNm)	Working Design Moment at Pole Base Plate Level (M)	36.6 (kNm)
Ultimate Design Shear at Pole Base Plate Level	10.4 (kN)	Working Design Shear at Pole Base Plate Level (V)	7.0 (kN)
Deflection at Tip for 200 Yr Return		Deflection Results	
Deflection at Tip	191.3 (mm)	Guideline Svc. Defl. Limit h/15 50Yr Rtn AS4676 (Communication Poles)	667 (mm)
Product Weight		Guideline Svc. Defl. Limit h/15 50Yr Rtn AS4676 (Flood Lighting Poles)	333 (mm)
Weight of Pole (Est.)	460.0 (kg)	Calculated Serviceability Deflection At Tip 50Yr Return	133 (mm)
Weight of Fittings and Arms (Act.)	8.0 (kg)	Calculated Deflection @ 28m/s (AS4676 - Communication Poles)	27 (mm)
Weight of Solar Box (Excl. Solar Box Equipment)	N.A. (kg)	Rotation At Tip Of Pole AS4676	
Total Weight (Est.)	468.0 (kg)	Calculated Rotation At Tip 50Yr Return	1.36 (Degrees)
Results Ultimate (Incl. Solar Box)		Calculated Rotation At Tip @ 28m/s (AS4676 - Communication Poles)	0.29 (Degrees)
Ultimate Design Moment at Solar Box Base Plate Level	N.A. (kNm)	Check Client Specified Deflection Limits - Not Required	
Ultimate Design Shear at Solar Box Base Plate Level	N.A. (kN)	Client Specified Horizontal Deflection limit of pole (Ultimate)	(mm)
Results Working (Incl. Solar Box)		Client Specified Horizontal Deflection limit of pole (serviceability)	(mm)
Working Design Moment at Solar Box Base Plate Level	N.A. (kNm)	Client Specified Rotational Deflection limit of pole (about horizontal)	(Degrees)
Working Design Shear at Solar Box Base Plate Level	N.A. (kN)	Client Specified Rotational Deflection limit of pole (about vertical)	(Degrees)

Base Plates and Holding Down Anchor Bolts for Pole			
Bolt Group	4 Bolt Group	8 Bolt Group	12 Bolt Group
Bolt P.C.D (mm)	538	538	538
Min Gr 4.6 hold down bolt dia	24	20	16
Min Base plate thickness (mm)	20	20	20
Chosen Holding Down Bolt Dia	33	+	+
Chosen Baseplate Thickness	40	+	+

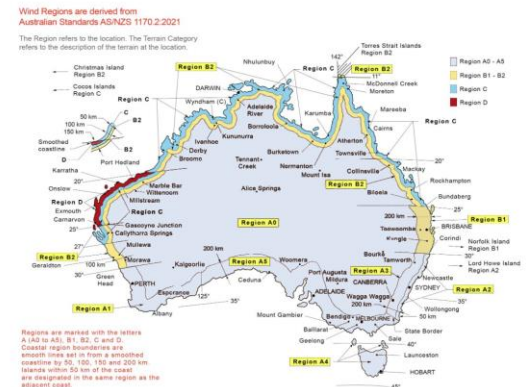
Pile Type Footing Design		Soil Type (See Soil Classification Section)		
		SOFT	FIRM	VERY FIRM
Depth (mm)		2200	1700	1400
Diameter (mm)		900	900	900

Square Slab / Pad / Raft Base	
Footing Design	
Nominated Depth (mm)	600
Nominated Width (mm)	2100
Max Ult Press on Diag (kPa)	178

Plinth Requirements	
Plinth Height (mm)	350
Plinth Width (mm)	950
Cylindrical Cage Reo Dia (mm)	706
Cylindrical Cage Reo Length (mm)	784

FOOTING IS STABLE AGAINST OVERTURNING >250kPa Ult.

THEREFORE SOIL PRESSURE OK



Importance Levels		
Level	Description	Comment
1	Low consequence for loss of human life, or small or moderate economic, social or environmental consequences	Minor structures (failure not likely to endanger human life)
2	Medium consequence for loss of human life, or considerable economic, social or environmental consequences	Normal structures and structures not falling into other levels
3	High consequence for loss of human life, or very great economic, social or environmental consequences	Major structures (affecting crowds)
4		Post disaster structures (post disaster functions or dangerous activities)
5	Circumstances where reliability must be set on a case by case basis	Exceptional structures

Terrain Categories	
Terrain Category 1	Terrain Category 2
Very exposed open terrain with very few or no obstructions, and all water surfaces (e.g. flat, treeless, poorly grassed plains; open ocean, rivers, canals, bays and lakes).	Open terrain, including grassland, with well-scattered obstructions having heights generally from 1.5 m to 5 m, with no more than two obstructions per hectare (e.g. farmland and cleared subdivisions with isolated trees and uncult grass).
Terrain Category 2.5	Terrain Category 3
Terrain with some trees or isolated obstructions, terrain in developing outer urban areas with scattered houses, or large acreage developments with more than two and less than 10 buildings per hectare.	Terrain with numerous closely spaced obstructions having heights generally from 3 m to 10 m. The minimum density of obstructions shall be at least the equivalent of 10 house-size obstructions per hectare (e.g. suburban housing, light industrial estates or dense forests).
Terrain Category 4	
Terrain with numerous large, high (10m to 30m tall) and closely-spaced obstructions, such as large city centres and well-developed industrial	



STRUCTURAL DESIGN ENGINEERING



Australian Standards

This structural design engineering is a software package which has been developed for the analysis and design of steel poles.

Applicable design codes are as follows:

AS/NZS 1170.2:2021 Structural design actions – wind actions.

This Standard sets out procedures for determining wind speeds and resulting wind actions to be used in the structural design of structures subjected to wind actions other than those caused by tornadoes.

AS/NZS 1170.2 Supp 1:2002 Structural design actions – wind actions – (Supp to AS/NZS 1170.2:2002).

Provides background material to the requirements of AS/NZS 1170.2, Wind actions. Clause by clause, it gives the origins of requirements, departures from previous practice and explanations with examples to illustrate their application.

AS 3600:2018 Concrete Structures Sup 1: 2022

This standard provides commentary to assist in the interpretation of the provisions of AS 3600:2018 by outlining background reference material to the requirements in the Standard, indicating the origin of particular requirements, discussing departures from previous practice due to changes that have occurred in the construction practice and theory since the previous edition of the Standard was published, and explaining the application of certain clauses.

AS3990-1993

Applies to the design, fabrication, erection, repair and alteration of steelwork associated with boilers, pressure vessels, lifts, cranes, mining equipment, gas and liquid petroleum piping systems, bulk handling equipment, and the like in accordance with the working stress design method, but does not apply to road and rail bridges, material less than 3mm thick, steel for which the design yield stress exceed 450MPa, and cold-formed members other than those complying with AS1163.

AS4100:2020

Specifies minimum requirements for the design and the engineering aspects of fabrication and erection, and modification of steelwork in structures in accordance with the limit states design method.

AS 2159-2009 Piling - Design & Installation

This standard sets out the minimum requirements for the design, construction and testing of piled footings for civil engineering and building structures on land or immediate inshore locations. It does not extend to offshore (deep-water) construction.

AMDT 1:2010-10-21

Amendments 1 to AS 2159:2009 - Piling - Design & installation

AS/NZS 4600:2018 Cold formed steel structures

The cross-sectional configurations, manufacturing processes and fabrication practices of cold formed steel structural members differ in several respects from those of hot - rolled steel shapes. For cold - formed steel sections, the forming process is performed at, or near, room temperature by the use of bending brakes, press brakes or roll forming machines. The standard is intended for the design of cold formed steel structural members to be used for load - carrying purposes making allowances for dynamic effects.

AS/NZS 4600 Supp 1:1998 Cold formed steel structures – commentary (supplement to AS/NZS 4600:1996)

AS3995 - 1994 Design of steel lattice towers and masts.

Procedures for the determination of design wind speeds and wind loads, and other appropriate standards to be used in the structural design of lattice towers and masts, with or without ancillaries such as antennas, for communication purposes. This standard also applies to cold - formed steel structures that comply with AS1163.

AS4676 - 2000 Structural design requirements for utility service poles.

This standard sets out general requirements for structural design and minimum design loads applicable to pole structures supporting lighting fixtures, signalling equipment, aerial conductors and communication equipment.

AS/NZS4677 - 2010 Steel utility service poles.

This standard specifies minimum requirements for the materials. Design, fabrication and erection of steel utility service poles. The Standard applies to steel poles and their component parts which support any one of street lights, floodlights, aerial conductors, electromotive-transport conductors, traffic signals, communication equipment, or similar utility service, or any combination of these services. The standard does not apply to lattice steel towers and masts, freestanding or guyed, nor to steel flag poles. This standard is intended to be used in conjunction with AS4676.

AS/NZS 1554.1:2014 - Structural steel welding, Part 1: Welding of steel structures

AS NZS 1554.1 2014 specifies requirements for the welding of steel structures made up of combinations of steel plate, sheet or sections, including hollow sections and built-up sections, or castings and forgings. Also known as AS1554 Structural steel welding.

AS 2870 -2011 - Residential slabs and footings

AS 2870 2011 sets out requirements for the classification of a site and the design and construction of a footing system for a single dwelling house, town house or the like which may be detached or separated by a party wall or common wall but not situated vertically above or below another dwelling. The AS 2870 Australian standard is widely used for concrete slabs and footings.

AS/NZS 3678:2016 - Structural steel - Hot rolled plates, floorplates and slabs

The standard specifies the requirements for the production and supply of hot-rolled structural steel plates, floorplates and slabs for general structural and engineering applications. It also specifies requirements for the production and supply of wide slabs as fully killed analysis-only steel.

AS4680:2006 - Hot-dip galvanized (zinc) coatings on fabricated ferrous articles

Specifies requirements and tests for hot-dip zinc coatings on fabrications, assembled steel products, tubular fabrications, fabricated wire work, steel forgings, steel stampings, ferrous castings, nails and small components.

AS/NZS 4671: 2019 - Steel for reinforcement of concrete

The objective of the Standard is to provide materials specifications for steel bars and welded mesh used to reinforce concrete structures that have been designed in accordance with standards such as AS 3600, Concrete structures, or NZS 3101.1, Concrete structures standard, Part 1. This Standard has also been referenced by other design standards.

Pile Footing Recommended Dimensions Embedment Depth for Laterally Loaded Piles

Product Description: MH10BHH - 10M Extra Heavy Duty Mid Hinged Tapered Octagonal Pole

Project Description: Cape Preston Australia - Sino Iron Project

Client: Windscreens Australia

Document No: S41593

Revision No: 0

Wind Region: D

Terrain Category: 2

Refer Table I1 of AS 4676:2000

Recommended values for bearing strength (f_b kPa)

at serviceability limit state for various soil types:

Class	Very Soft	Soft	Firm	Very Firm	Hard
Soil Description	Silty clay and sand; loose dry sand	Wet clay; silty loam; wet or loose sand	Damp clay; sandy clay; damp sand	Dry clay; clayey sand; coarse sand; compact sand	Gravel; dry clay
Strength(f_b)	$f_b < 60$	$60 < f_b < 100$	$100 < f_b < 150$	$150 < f_b < 240$	$240 < f_b$

Note: Values in the above table are based on deformations of approximately 12mm under serviceability loads.

Minimum embedment depth given by:

$$D = \frac{3.6 H_R + \sqrt{(12.96 H_R^2 + 16.2 C M)}}{2C}$$

Eqn 13.2(1) from AS/NZS 4676:2000

where:

H_R = Resultant horizontal force acting on pile (Working Load)

h_r = Resultant Height above ground level at which H_R acts

M = Overturning moment acting c

$C = f_b \times b$

b = Effective width of the footing, projected perpendicular to the direction of the resultant horizontal force acting on the pile (If backfill is properly prepared concrete, b may be taken as the diameter of the bored hole).

Inputs:

Soil Type =	Soft	Firm	Very Firm	
H_R =	7.0 kN	7.0 kN	7.0 kN	working shear
h_r =	m	m	m	optional input
Therefore,				
M =	36.6 kNm	36.6 kNm	36.6 kNm	working moment
f_b =	60 kPa	100 kPa	150 kPa	see table above
f_{bu} =	90 kPa	150 kPa	225 kPa	
b =	0.9 m	0.9 m	0.9 m	Dia of pile Foundation

Outputs:

C =	54	90	135	$C = f_b \times b$ for serviceability loads
Therefore,				
D =	1.905 m	1.430 m	1.145 m	

Add 0.2m (for disturbed ground depth) to minimum embedment depth. Therefore,

depth. Therefore:

Depth _{reqd} (m) =	2.105 m	1.630 m	1.345 m
Depth _{reqd} (mm) =	2105 mm	1630 mm	1345 mm
Roundup To Nearest 100	2200 mm	1700 mm	1400 mm

Pile Footing Recommended Dimensions Embedment Depth for Laterally Loaded Piles

Product Description: MH10BHH - 10M Extra Heavy Duty Mid Hinged Tapered Octagonal Pole

Project Description: Cape Preston Australia - Sino Iron Project

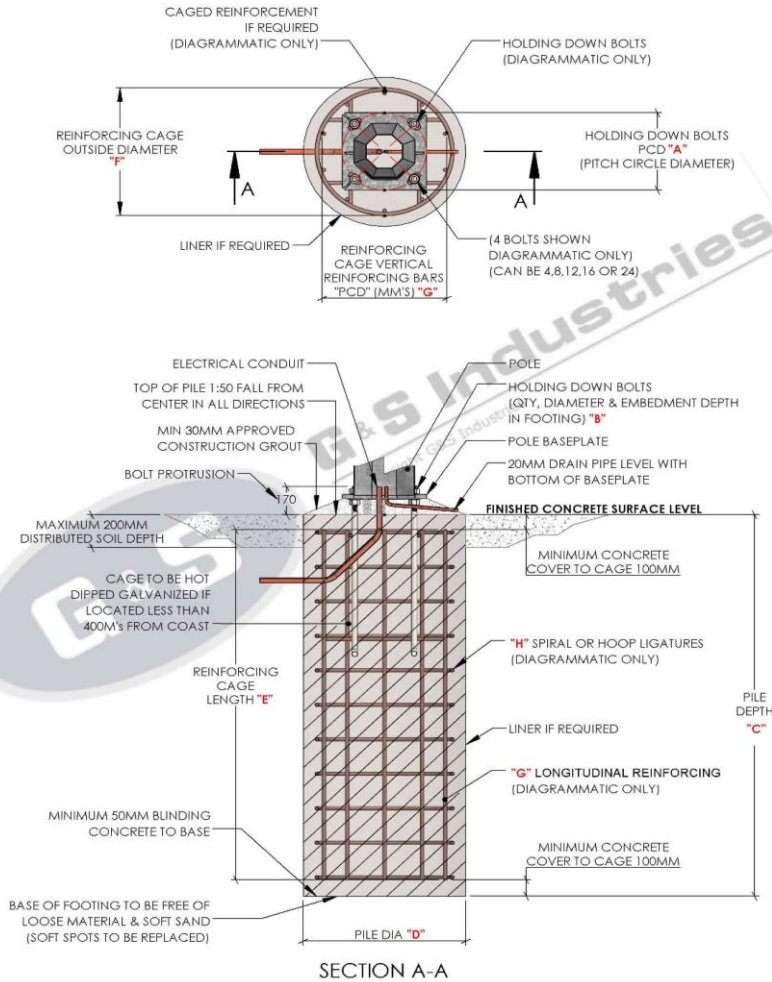
Client: Windsocks Australia

Wind Region: **D**

Terrain Category: 2

Document No: S41593

Revision No: 0



SECTION A-A

DRAWING DIMENSIONS & SPECIFICATIONS				
Dim	Description			Dim
A	Holding Down Bolt "PCD" "Pitch Circle Diameter" (mm's)			538
				Quantity & Diameter
B	Holding Down Bolts			4 x M33
				Embedment Lnth (mm)
				Grade
Complete Caged Ragbolt Setup (Part Number)				CR33/4/538
Soil Type				Soft
C	Pile Depth (mm's)			1700
D	Pile Diameter (mm's)			900
E	Reinforcing Cage Length (mm's)			1200
F	Reinforcing Cage "Outside Diameter" (mm's)			750
G	Reinforcing Cage Vertical Reinforcing Bars "PCD" (mm's)			706
H	Longitudinal Reinforcing Qty @ Diameter (mm's)	Grade 500	10 x N20	10 x N20
I	Horizontal Spiral or Hoop Diameter & Centers (mm's)	Grade 500	N12 @ 207	N12 @ 207
Ultimate Base Moment (kNm)		54.9		
Ultimate Base Shear (kN)		10.4		
Working Base Moment (kNm)		36.6		
Working Base Shear (kN)		7.0		



Pile Footings and Foundations Embedment Depth for Laterally Loaded Piles

Product Description: MH10BHH - 10M Extra Heavy Duty Mid Hinged Tapered Octagonal Pole

Project Description: Cape Preston Australia - Sino Iron Project

Client: Windssocks Australia

Document No: S41593

Revision No: 0

Wind Region: D

Terrain Category: 2

Pile Foundation Notes

Drawing Dimensions

1. **Dimension "A"** refers to the "PCD" "Pitch Circle Diameter" of the H.D. bolts. This should match the bolt pattern on the corresponding column.
2. **Dimension "B"** above details the H.D. bolt diameter and the minimum bolt embedment into the concrete.
3. **Dimension "C"** denotes the nominated pile length and is based on foundation deformations of approximately 12mm under serviceability loads. Foundations with more stringent deflection limit requirement must be subjected to more rigorous design.
4. The length of pile **Dimension "C"** specified is the minimum length of the pile below natural ground level.
5. These foundation designs have been prepared based on a disturbed soil depth of up to 200mm. Reference must be made to an engineer for assessing soil strength with a disturbed soil layer greater than 200mm.
6. **Dimension "D"** is the pile or augured / drilled hole diameter. It is important to maintain the integrity of cylindrical hole when constructing this type foundation. If the sides of the excavation collapse, the collapsed material must be removed prior to concreting.
7. Casing of piles may be required during construction on sites containing either loose sands or soft clay including sites that have either a high water table or water seepage, so as to maintain the integrity of the open cylindrical hole.
8. **Dimension "E"** denotes the steel reinforcing cage length. As per the drawing, minimum concrete cover to this cage is 75mm at the bottom, 65mm at the top and 75mm around the sides. If the installation site is less than 400 metres from a coastal area, or it is in soil with a high salt content, G&S recommend the reinforcing cage be hot dipped galvanized.
9. **Dimension "F"** is the steel reinforcing cage diameter or "Pitch Circle Diameter" "PCD".
10. **Dimension "G"** denotes the quantity and diameter of the steel reinforcing cage longitudinal or (vertical) reinforcing bars. These bars will be evenly spaced in the "Pitch Circle Diameter" "PCD" to Dimension "F" above. The grade of steel is also specified at this point.
11. **Dimension "H"** denotes the diameter and spacing of the horizontal spiral or hoop reinforcing making up the steel cage. This reinforcing will either be hoops at even spacing or a spiral wind complete with two turns at the top and bottom of the cage. This reinforcing maintains the cage "Pitch Circle Diameter" "PCD". The grade of steel is also specified at this point.

General

1. All dimensions relevant to setting out and off-site work must be verified by the builder or installation contractor before construction is commenced.
2. The above drawings shall not be scaled.
3. During construction, the builder or installation contractor shall be responsible for maintaining the structure in a stable condition and ensuring no part is overstressed during construction activities.
4. All workmanship and materials are to be in accordance with the relevant Australian Standards and the local statutory authorities' regulations including all amendments, except where varied by contractual documents.
5. The pile foundation lengths nominated are based on limit state design loads.
6. These foundation designs have been developed based on Broms' Theory and AS/NZS 4676 Structural design requirements for utility services poles; Appendix I Footings and Foundations.
7. These foundation designs conform to the following codes: AS 3600 Concrete structures and AS 2159 Piling – Design and Installation.
8. The onus for the selection of site soil conditions, the particular foundation and any further engineering design, calculations and verification for the foundation is upon the builder or installation contractor.
9. The soil type should be chosen based on worst expected conditions for each site.
10. The top of the pile must coincide with the final finished surface level of the site.
11. Workmanship and materials are to be in accordance with the current relevant SAA codes and the local Statutory authorities regulations.
12. If the base of the excavation becomes wet prior to pouring concrete then the water and any softened material shall be removed prior to pouring the foundation. If the excavation exposes the water table, the builder or installation contractor must seek advice from an experienced and qualified civil / structural engineer regarding soil suitability. The pile design above does not account for the presence of the water table above the bottom of the pile.
13. No excavation, deeper than 600mm shall be made within 3m of the edge of the pile without first seeking approval from a suitably qualified engineer.
14. If in doubt, the builder or installation contractor must engage an experienced and qualified civil / structural engineer to confirm the soil conditions and determine a suitable pile footing size.
15. The responsibility of defining the existing soil conditions rests with the builder or installation contractor, unless that responsibility has been assigned to a qualified and experienced civil / structural engineer.
16. If a liner is used, the ground is to be well compacted to ensure there are no air pockets around the liner. Fines can be washed in around the liner to aid in eliminating any air pockets. The ground is to be compacted until it is restored to its original state of compaction.
17. The above footing design is to be utilized with an cylindrical augured hole. Under no circumstances is a hole to be excavated, liners used and backfilled. If the soil is such that an augured hole cannot be used, we recommend the use of a slab / pad style footing.

Steel Reinforcing

Please see the "Steel Reinforcing" section attached.

Concrete & Post Pouring

Please see the "Concrete Specifications" section attached.



STRUCTURAL DESIGN ENGINEERING



Pole Deflection Calculations

Product Description: MH10BHH - 10M Extra Heavy Duty Mid Hinged Tapered Octagonal Pole
Project Description: Cape Preston Australia - Sino Iron Project

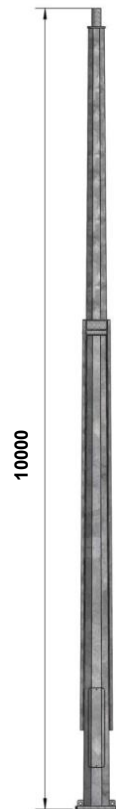
Client: Windssocks Australia
Document No: S41593
Revision No: 0

Wind Region: D
Terrain Category: 2

	m/s	km/hr
Client Specified Serviceability Windspeed (m/s)	28	100.8

NOTE:

- THIS TABLE DOES NOT TAKE CLIENT SPECIFIED SERVICEABILITY WIND SPEED INTO ACCOUNT FOR CALCULATING DEFLECTIONS.



130 OD

277 OD

Height Along Pole	200 yr return Ult. Wind Sp. (m/s)	50 yr return Ult. Wind Sp. (m/s)	Wind Sp. (m/s)	Client Specified Wind Sp. (m/s)	200 yr return Ult. Wind Sp. (m/s)	50 yr return Ult. Wind Sp. (m/s)	Wind Sp. (m/s)	Client Specified Wind Sp. (m/s)	200 yr return Ult. Wind Sp. (m/s)	50 yr return Ult. Wind Sp. (m/s)	Wind Sp. (m/s)	Client Specified Wind Sp. (m/s)
	75.6	63.0	28.0	28.0	75.6	63.0	28.0	28.0	75.6	63.0	28.0	28.0
	Serviceability Limit State Deflection (mm)				Calculated Rotational Deflection About Horizontal (Degrees)				Calculated Rotational Deflection About Vertical (Degrees)			
10	191.29	133.21	27.33	27.33	1.95	1.36	0.29	0.29	0.01	0.00684	0.00135	0.00135
9.6	177.76	123.77	25.34	25.34	1.92	1.34	0.28	0.28	0.01	0.00599	0.00118	0.00118
9.2	164.47	114.50	23.39	23.39	1.88	1.31	0.27	0.27	0.01	0.00527	0.00104	0.00104
8.8	151.49	105.45	21.50	21.50	1.84	1.28	0.27	0.27	0.01	0.00467	0.00092	0.00092
8.4	138.84	96.63	19.67	19.67	1.78	1.24	0.26	0.26	0.01	0.00415	0.00082	0.00082
8	126.58	88.09	17.90	17.90	1.73	1.20	0.25	0.25	0.01	0.00371	0.00073	0.00073
7.6	114.75	79.85	16.20	16.20	1.66	1.16	0.24	0.24	0.00	0.00333	0.00066	0.00066
7.2	103.38	71.93	14.58	14.58	1.59	1.11	0.23	0.23	0.00	0.00300	0.00059	0.00059
6.8	92.52	64.37	13.03	13.03	1.52	1.06	0.22	0.22	0.00	0.00271	0.00053	0.00053
6.4	82.19	57.18	11.56	11.56	1.44	1.00	0.20	0.20	0.00	0.00246	0.00048	0.00048
6	72.44	50.39	10.18	10.18	1.35	0.94	0.19	0.19	0.00	0.00223	0.00044	0.00044
5.6	63.28	44.02	8.88	8.88	1.27	0.88	0.18	0.18	0.00	0.00204	0.00040	0.00040
5.2	54.76	38.08	7.68	7.68	1.17	0.82	0.17	0.17	0.00	0.00186	0.00037	0.00037
4.8	46.88	32.61	6.57	6.57	1.08	0.75	0.15	0.15	0.00	0.00137	0.00027	0.00027
4.4	39.62	27.55	5.55	5.55	1.00	0.70	0.14	0.14	0.00	0.00126	0.00025	0.00025
4	32.92	22.90	4.61	4.61	0.92	0.64	0.13	0.13	0.00	0.00116	0.00023	0.00023
3.6	26.81	18.64	3.75	3.75	0.83	0.58	0.12	0.12	0.00	0.00107	0.00021	0.00021
3.2	21.29	14.80	2.98	2.98	0.75	0.52	0.10	0.10	0.00	0.00099	0.00020	0.00020
2.8	16.38	11.39	2.29	2.29	0.66	0.46	0.09	0.09	0.00	0.00092	0.00018	0.00018
2.4	12.09	8.41	1.69	1.69	0.57	0.40	0.08	0.08	0.00	0.00085	0.00017	0.00017
2	8.44	5.87	1.18	1.18	0.48	0.33	0.07	0.07	0.00	0.00079	0.00016	0.00016
1.6	5.42	3.77	0.76	0.76	0.38	0.27	0.05	0.05	0.00	0.00074	0.00015	0.00015
1.2	3.07	2.13	0.43	0.43	0.29	0.20	0.04	0.04	0.00	0.00069	0.00014	0.00014
0.8	1.37	0.95	0.19	0.19	0.19	0.14	0.03	0.03	0.00	0.00064	0.00013	0.00013
0.4	0.35	0.24	0.05	0.05	0.10	0.07	0.01	0.01	0.00	0.00060	0.00012	0.00012
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00057	0.00011	0.00011