



## Corten

### *Round Conical*

#### **Description and Specification**

Corten is a weather-resistant steel alloy that has been optimized with copper, chromium, nickel and phosphorus. When exposed to weather, Corten steel develops a rich patina which protects it from corrosion. As Corten weathers, its patina gives it an antique, rustic, or industrial feel which has made it very popular in recent years.

Conical Corten columns are constructed from COR-TEN B S355 steel and are available in mounting heights from 4 to 8 metres. They can be used for post top applications or supplied with demountable or integral bracket arm arrangements. Valmont® Structures Corten products are designed to meet EN 40-5 standards and carry CE Certification. Valmont operates a Quality Assurance system which complies with requirements of BS EN ISO 9001. Our welders and welding procedures are independently certified in accordance with EN ISO 9606 and EN ISO 15607. Please contact your representative for more product information.



Corten Steel










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#### **Finishing Options**












As a standard, Valmont offers 2 surface treatments for our weathering steel columns, natural and sealed. With the natural option, the column will weather to its full potential after installation. If the sealed option is selected the weathering process is accelerated during production and then stopped via sealer once the desired level of patina is achieved. For more information contact your local Valmont representative.

# Corten Round Conical

## Planted Root Dimensions

 Height (m)	 Top (mm)	 Base (mm)	 Height (mm)	 Width (mm)	 Position (mm)	 Root (mm)	 Mounting Arrangement	 Projection (m)
4	76	134	400	80	500	800	PT/SE	0
5	76	144	400	90	500	800	PT/SE	0
6	76	160	400	90	500	1000	PT/SE	0
8	76	186	400	90	950	1200	PT/SE	0

## Flange Plated Dimensions

 Height (m)	 Top (mm)	 Base (mm)	 Height (mm)	 Width (mm)	 Position (mm)	 Mounting Arrangement	 Projection (m)	 Width (mm)	 Bolt Circle (mm)	 Anchor Bolts
4	76	124	400	80	500	PT/SE	0	260	200	M18/20 x 400
5	76	136	400	80	500	PT/SE	0	260	200	M18/20 x 400
6	76	148	400	90	500	PT/SE	0	260	200	M18/20 x 400
8	76	172	400	100	950	PT/SE	0	320	240	M24 x 500

## Headload Capacity

Height (m)	Mounting Type	Projection (mm)	Mass (kg)	Wind Speeds												M (kNm)	T (kN)	Foundation Size (m)	Concrete Ø (mm)												
				22m/s			24m/s			26m/s			28m/s							30m/s			32m/s			34m/s			36m/s		
				II	I	CAT	II	I	CAT	III	II	I	III	II	I					III	II	I	III	II	I	III	II	I	III	II	I
4	PT	0	25	2.04	1.61	1.68	1.32	1.57	1.41	1.11	1.33	1.2	0.94	1.15	1.03	0.81	0.99	0.89	0.7	0.61	0.54	6.43	1.85	0.4 x 0.7	779						
5	PT	0	25	1.6	1.26	1.31	1.04	1.31	1.09	0.86	1.11	0.92	0.73	0.94	0.79	0.62	0.82	0.68	0.53	0.46	0.41	7.33	1.78	0.4 x 0.8	866						
6	PT	0	25	1.48	1.18	1.21	0.96	1.28	1	0.8	1.08	0.83	0.67	0.91	0.72	0.57	0.79	0.61	0.49	0.42	0.38	9.14	1.89	0.4 x 0.8	555						
8	PT	0	25	1.3	1.04	1.05	0.84	1.23	0.86	0.69	1.03	0.72	0.58	0.86	0.61	0.49	0.75	0.52	0.42	0.37	0.32	13.17	2.29	0.5 x 1	458						

All dimensions and technical information given as an indication. Valmont reserves the right to make, without delay and without prior notice, the technical or aesthetic modifications that it deems necessary to improve the products of the Standard Collection.

\* Mounting Arrangement Abbreviations: PT = Post Top, SA = Single Arm, DA = Double Arm, QA = Quad Arm, FL = Floodlight, SE = Side Entry, CB = Crossbar, CR = Crown, PF = Platform, OT = Other

\* Speeds given are basic 10 minute mean wind speeds in 2m/s increments, if national wind speeds lie between these figures please interpret using linear interpolation.

\* **M** = Bending moment at baseplate, **T** = Shear force at baseplate.