

Technical Specifications of Hardwood Cross-Arms for Distribution Network

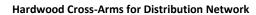




Table of Contents

1.	Purpose and Scope	. 3
2.	Standards	. 3
3.	Material List and Quantity	. 3
4.	Drawings	. 3
5.	Local Environment Conditions	. 3
6.	Quality Assurance	. 4
7.	Tests	. 4



1. Purpose and Scope

This specification sets out the **guideline requirements** for the supply of **materials used on totally exposed Distribution Network.**

2. Standards

All items/materials and equipment manufactured shall conform under these specifications with latest applicable standards of AS/NZS, ANSI, IEC, NFC, IEEE, BS except otherwise specified in this document.

Applicable Standards	Description
AS 3818-4	Timber – Heavy Structural Products – Visually Graded:
	Cross-Arms for Overhead Lines

3. Material List and Quantity

Material	Specification	Reference	Quantity
Hardwood Cross-Arm	2900 x 100 x 100	AS 3818-4	2000
Fully Treated Wood	2900 x 100 x 150		1000
	2300 x 100 x 100	Must be Fully Treated	2000
	3600 x 100 x 100	to H3 CCA Chemical	500
	3600 x 100 x 150		500

4. Drawings

The **tenderer to supply** with the tender **detailed drawings and pictures** of the items tendered.

5. Local Environment Conditions

The items/materials as listed are exposed to the following environmental conditions.

Factors	Conditions
Temperatures	Ranges from 20°C -45°C
Solar Radiation	1000 W/m ²
Humidity	Relative humidity in excess of 90%
Precipitation	Range of 3000 mm to 6000 mm rainfall annually
	Exposure to winds in excess of 250km/hr.
Pollution	Salt spray and salt deposit densities on coastal areas and pollution ranging from 3.0g/m ² to
	4.50g/m ²



6. Quality Assurance

The manufacturer shall possess certified certificate of Quality Assurance under the ISO 9001:2015, ISO 9001:2008 is also acceptable for the factory where the materials were manufactured. The bidders must provide with the bid a copy of the ISO Certificate certified as a true copy of the original by the manufacturer.

7. Tests

All items in this tender are referenced to Standards specified. It is important for the Tenderer "To provide Type Test Reports with the Offer as specified in each Reference Standards specified in Clause 3 of this tender" failure to do so will lead to rejection of the Bid. .