



MTO | group

| Creating exceptional experiences



FROM SEED TO SUCCESS | GROWING TODAY, FOR TOMORROW

## BUYING AND USING TREATED POLES

With years of expertise backing us in the timber industry, we focus on creating an exceptional experience for our customers. Our poles are harvested from our internationally accredited pine and eucalyptus plantations, thus ensuring that we provide our customers with a premium product – from seedling to high premium poles.



## WOOD PROTECTION

The natural durability of wood is limited to the heartwood, but this depends on the species, growth conditions and provenance. Apart from a few, mostly tropical hardwood species, most untreated wood is vulnerable to biodeterioration by prolonged exposure to wet conditions, fungal decay and wood destroying insects.

In recognising the short life of untreated wood when used in exposed applications and conditions, e.g. agriculture, structures and fencing, and the inconvenience and cost of failure has culminated in the preservatives and processes available now for many uses of treated wood that meet the health, safety and environmental requirements of today's regulatory regime.

## THE STAMP ON OUR LUMBER

To earn SABS Approval, a product must be tested against the South African National Standards (SANS). Additionally, the manufacturing facility where the product is produced must also be inspected to determine if it has an adequate quality assurance system.

In order to give you the assurance of our good quality initiatives, not only is the timber prepared in terms of a SANS specification, we are also members of the South African Wood Preservers Association (SAWPA) giving support to their aims and objectives.

In South Africa treated timber is by law required to comply with National and compulsory specifications and must bear marking containing the following information:

**MTO S**  **•**

**MTO S**  **•5**

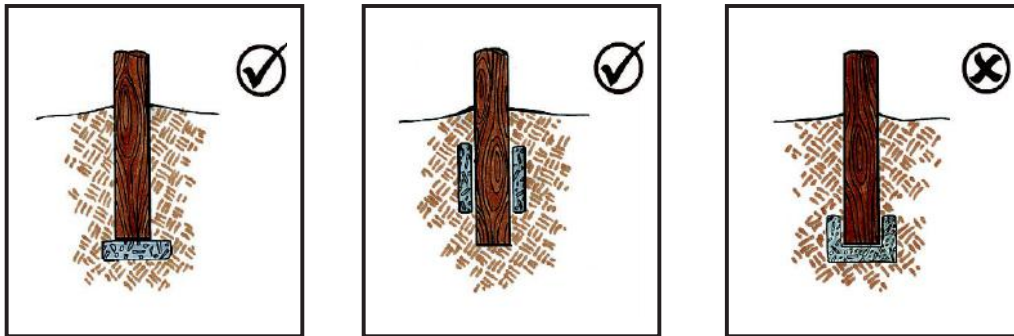
**MTO S**  **•5 FJ**

**H2 CCA or H3 CCA**

## TREATMENTS & APPLICATION

Chromated Copper Arsenate (CCA) is a wood preservative used to treat timber, especially as intended for outdoor use, in order to protect them from attack by microbes and insects.

It is preferable that your treated timber is purchased in the size which you intend to use it. If this is not the case and you subsequently cut the timber, you may expose the untreated heartwood of the timber. The cut end of a post or stake should not be the end which you plant into the ground – rather use the other uncut end.



The detail in these diagrams illustrate proper drainage of moisture that may be absorbed by a wooden pole. A structural engineer must be consulted for detailed structural requirements.

Poles intended for planting in the ground must be purchased at required lengths. Never plant a cross-cut end of a treated pole or post into the ground as this will expose the untreated wood to fungal and termite attack, resulting in premature failure.

## CHOOSE THE CORRECT HAZARD (H) CLASS

Our treated poles are marked with one of the symbols listed below.

### Hazard Class Symbol    End use Application

**H5**  
High Hazard

Used in agriculture sector ideal for prolonged exposure to wet ground conditions, particularly in supporting netting structures that cover orchards.



**H4**  
High Hazard

Used for outdoor wooden products that have ground contact, such as fencing posts, car ports, decking bridges, construction applications, telephone poles, etc.



**H3**  
Moderate Hazard

Droppers and Lathes are thin poles used mainly in roofing, laps and gardening. They can be used for screens, shading on car ports, fencing decor and more.



**H2**  
Low Hazard

Inside above ground, protected from wetting and leaching  
e.g. roof trusses, framing, panelling, laminated beams, flooring, etc.



## DRYING PROCESS

We use a kiln drying process according to the SABS specifications. The kiln drying process involves the drying of wood in a chamber where air circulation, relative humidity and temperature can be controlled so that the moisture content of wood can be reduced to a target point without having any drying defects.

The process of kiln drying removes the moisture from the wood, where the wood will naturally release its moisture. Kiln drying also kills insects during the process, it also requires little stacking space unlike when you season wood.

After the kiln dried lumber has reached the correct moisture level for that species, it is sent through the planer and planed to its final dimensions, sorted to grade and shipped out.



## SAFETY PRECAUTIONS AND WARNINGS FOR USE, HANDLING AND DISPOSAL

### Handling precautions

- Wear a dust mask when machining (e.g. sanding and sawing) treated wood
- Wear safety glasses to protect eyes from flying particles when machining treated wood
- Work in a well-ventilated area to avoid prolonged inhalation of sawdust
- Always wash work clothes separately
- Wear gloves when working with freshly treated wood

### Disposal

- Do not allow treated wood off-cuts and waste to accumulate
- Dispose of treated wood off-cuts and waste at a registered disposal or landfill site
- Do not burn CCA treated wood off-cuts and waste. This will allow the release of chemicals, tightly bound to the wood, into the air. The ashes may also contain residual chemicals.

### Warnings

- Do not make baby toys or furniture from treated wood that may be chewed by infants
- Do not use treated wood for firewood or prepare food on it
- Do not store food in direct contact with treated wood containers
- Do not make food utensils from treated wood
- Do not make containers for storing drinking water from treated wood
- Do not use treated wood in beehives where it may come into contact with honey
- Do not use treated wood shavings or sawdust for animal litter or where it can become a component of animal food

# SIZES & VOLUME

SABS 457/3 - 754-1288 | CCA: -H3 -H4 - H5

Length	Diameter						
	50-75mm	75-100mm	100-125mm	125-150mm	150-175mm	175-200mm	200-225mm
1.2m	0.0042 <sup>3</sup>	0.0079 <sup>3</sup>	0.0128 <sup>3</sup>	0.0189 <sup>3</sup>	0.0262 <sup>3</sup>	0.0346 <sup>3</sup>	0.0443 <sup>3</sup>
1.5m	0.0054 <sup>3</sup>	0.0101 <sup>3</sup>	0.0163 <sup>3</sup>	0.0240 <sup>3</sup>	0.0332 <sup>3</sup>	0.0438 <sup>3</sup>	0.0559 <sup>3</sup>
1.8m	0.0067 <sup>3</sup>	0.0124 <sup>3</sup>	0.0200 <sup>3</sup>	0.0292 <sup>3</sup>	0.0403 <sup>3</sup>	0.0531 <sup>3</sup>	0.0677 <sup>3</sup>
2.1m	0.0080 <sup>3</sup>	0.0148 <sup>3</sup>	0.0237 <sup>3</sup>	0.0346 <sup>3</sup>	0.0476 <sup>3</sup>	0.0626 <sup>3</sup>	0.0797 <sup>3</sup>
2.4m	0.0095 <sup>3</sup>	0.0173 <sup>3</sup>	0.0276 <sup>3</sup>	0.0401 <sup>3</sup>	0.0551 <sup>3</sup>	0.0723 <sup>3</sup>	0.0920 <sup>3</sup>
3.0m	0.0126 <sup>3</sup>	0.0226 <sup>3</sup>	0.0356 <sup>3</sup>	0.0516 <sup>3</sup>	0.0705 <sup>3</sup>	0.0924 <sup>3</sup>	0.1172 <sup>3</sup>
3.6m	0.0159 <sup>3</sup>	0.0283 <sup>3</sup>	0.0442 <sup>3</sup>	0.0637 <sup>3</sup>	0.0867 <sup>3</sup>	0.1132 <sup>3</sup>	0.1433 <sup>3</sup>
4.2m	0.0197 <sup>3</sup>	0.0345 <sup>3</sup>	0.0534 <sup>3</sup>	0.0764 <sup>3</sup>	0.1036 <sup>3</sup>	0.1349 <sup>3</sup>	0.1703 <sup>3</sup>
4.8m	0.0237 <sup>3</sup>	0.0410 <sup>3</sup>	0.0630 <sup>3</sup>	0.0889 <sup>3</sup>	0.1212 <sup>3</sup>	0.1574 <sup>3</sup>	0.1982 <sup>3</sup>
5.4m	0.0281 <sup>3</sup>	0.0480 <sup>3</sup>	0.0732 <sup>3</sup>	0.1037 <sup>3</sup>	0.1396 <sup>3</sup>	0.1807 <sup>3</sup>	0.2271 <sup>3</sup>
6m	0.0329 <sup>3</sup>	0.0555 <sup>3</sup>	0.0840 <sup>3</sup>	0.1184 <sup>3</sup>	0.1587 <sup>3</sup>	0.2049 <sup>3</sup>	0.2569 <sup>3</sup>
6.6m		0.0634 <sup>3</sup>	0.0953 <sup>3</sup>	0.1337 <sup>3</sup>	0.1786 <sup>3</sup>	0.2299 <sup>3</sup>	0.2877 <sup>3</sup>
7.2m		0.0718 <sup>3</sup>	0.1072 <sup>3</sup>	0.1497 <sup>3</sup>	0.1992 <sup>3</sup>	0.2558 <sup>3</sup>	0.3195 <sup>3</sup>
7.8m		0.0807 <sup>3</sup>	0.1197 <sup>3</sup>	0.1664 <sup>3</sup>	0.2207 <sup>3</sup>	0.2827 <sup>3</sup>	0.3523 <sup>3</sup>
8.4m		0.0902 <sup>3</sup>	0.1328 <sup>3</sup>	0.1838 <sup>3</sup>	0.2403 <sup>3</sup>	0.3104 <sup>3</sup>	0.3860 <sup>3</sup>
9m		0.1001 <sup>3</sup>	0.1466 <sup>3</sup>	0.2019 <sup>3</sup>	0.2660 <sup>3</sup>	0.3390 <sup>3</sup>	0.4208 <sup>3</sup>
10m			0.1709 <sup>3</sup>	0.2337 <sup>3</sup>	0.3064 <sup>3</sup>	0.3888 <sup>3</sup>	0.4811 <sup>3</sup>
11m			0.1970 <sup>3</sup>	0.2676 <sup>3</sup>	0.3490 <sup>3</sup>	0.4413 <sup>3</sup>	0.5443 <sup>3</sup>
12m			0.2250 <sup>3</sup>	0.3037 <sup>3</sup>	0.3941 <sup>3</sup>	0.4964 <sup>3</sup>	0.6104 <sup>3</sup>
13m					0.4417 <sup>3</sup>	0.5543 <sup>3</sup>	0.6796 <sup>3</sup>

## Droppers - Bundles of 10

Length	
0.9m	0.0014 <sup>3</sup>
1.1m	0.0017 <sup>3</sup>
1.2m	0.0019 <sup>3</sup>
1.4m	0.0023 <sup>3</sup>
1.5m	0.0025 <sup>3</sup>
1.8m	0.0032 <sup>3</sup>
2.1m	0.0039 <sup>3</sup>
2.4m	0.0046 <sup>3</sup>
3m	0.0062 <sup>3</sup>
3.6m	0.0081 <sup>3</sup>

## Laths - Bundles of 10

Length	
3m	0.0036 <sup>3</sup>
3.6m	0.0048 <sup>3</sup>
4.5m	0.0069 <sup>3</sup>



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## CONTACT US



[www.mto.group](http://www.mto.group)



[info@mto.group](mailto:info@mto.group)

