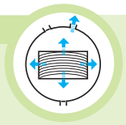
HIGH PRESSURE PRESERVATIVE TREATMENT PROCESS

Tanalised® E pressure treated timber is impregnated with Tanalith® E preservative under controlled conditions by proven vacuum high pressure technology in an enclosed system.

1

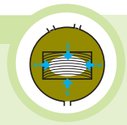


Timber loaded into treatment vessel. Initial vacuum applied – timber cells evacuated of air. Vacuum held.

2

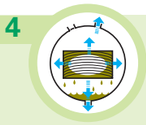
Cylinder flooded under vacuum with Tanalith® E wood preservative with optional Tanalith® Extra and Tanatone® additives.

3



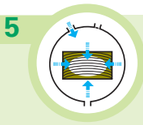
Hydraulic pressure applied, forcing the preservative deep into the structure of the timber.

4



Final vacuum extracts excess preservative solution, which is pumped back into storage.

5



Low pressure inside timber draws in surface solution when vented to atmosphere. Treated timber is left to dry.

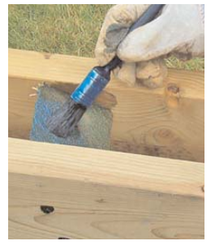
USEFUL DOCUMENTS

The Tanalised® E pressure treated timber and plywood Code of Practice (COP 2), provides full details on the properties of Tanalised® E, Tanalised® Extra and Tanatone® pressure treated timber.

The Tanalised® E pressure treated timber Consumer Information Sheet provides information on the handling of Tanalised® E, Tanalised® Extra and Tanatone® pressure treated timber.

Any treated timber surface exposed by cross-cutting, drilling, notching or boring must be brushed with Ensele® end-grain preservative to maintain the integrity of the treatment. A choice of Ensele® product is available for use with either green or brown pressure treated timber.

The Ensele® Technical Data Sheet provides full information on this product.



AVAILABILITY OF TREATED TIMBER/SPECIFIC TREATMENTS

Ready treated stocks or specific treatments of Tanalised® E, Tanalised® Extra and Tanatone® pressure treated timber are available through a wide network of timber companies and treaters throughout the UK, Ireland and Europe. For details on your nearest supplier, please contact the Customer Services Department at the address below.

Arch Timber Protection

Wheldon Road, Castleford, West Yorkshire, WF10 2JT.
Telephone (01977) 714000 Fax (01977) 714001
e-mail advice@archchemicals.com www.archtp.com

Arch Timber Protection

Helping you to make the most of timber

SPECIFIER'S GUIDE
March 2008

SPECIFIER'S GUIDE TO TANALISED® E, TANALISED® EXTRA AND TANATONE® PRESSURE TREATED TIMBER

UniQue timber protection

TO SPECIFY TANALISED® E PRESSURE TREATED TIMBER

TO SPECIFY, the following wording is recommended . . .

The timber as detailed . . . *(insert quantity, dimensions, species, whether sawn or round and its end use/description of component)* . . . is to be vacuum/pressure treated with Tanalith® E preservative *(state with Tanalith® Extra water repellent, or Tanatone® colour additive, if desired)* to comply with the Treatment Code . . . *(insert "TE" Code from the chart opposite)*.

Following treatment, any areas of treated timber revealed by cross cuts, holes, notches etc. shall be brushed with Ensele® end-grain preservative.

Timber which is rip sawn, equalised, planed or heavily sanded must be returned to the treatment plant for re-treatment.

On no account are fence posts to be pointed after treatment. The shortening of posts and columns should be avoided. In any event, cross cutting must be restricted to the top of the post or column.

Specification clauses are available to download from the Arch website - www.archtp.com and also from the NBS Plus Product Selector - www.nbsplus.co.uk.

MAIN FEATURES

TANALISED® E

PRESSURE TREATED TIMBER

- Proven performance against fungal decay and insect attack.
- Appealing natural green colour with excellent weathering properties.
- Usually specified for indoor and outdoor use where there is a medium to high risk of fungal decay and insect attack, eg. general construction, landscaping and leisure timbers, fencing and other outdoor timber projects.
- Available with a built-in water repellent (Tanalised® Extra) or colour additive (Tanatone®).

PRESSURE TREATED TIMBER WITH BUILT-IN WATER REPELLENT

FOR WATER REPELLENT TIMBER SPECIFY 'WITH TANALITH® EXTRA WATER REPELLENT ADDITIVE'

Built-in water repellent provides enhanced weathering protection and improved dimensional stability. Ideal for cladding and decorative garden timbers.

FOR BROWN COLOURED TIMBER SPECIFY 'WITH TANATONE® COLOUR ADDITIVE'

Appealing built-in brown colour. Ideal for rough sawn fencing and landscaping applications.

PRESSURE TREATED TIMBER WITH BUILT-IN COLOUR

SPECIFICATION CHART FOR TANALISED® E PRESSURE TREATED TIMBER

COMPONENT GROUP	USE CLASS	COMPONENT DETAILS (This list is not exhaustive. If your timber component is not listed, please contact Arch for further advice.)	TREATMENT CODE	DESIRED SERVICE LIFE
Internal building timbers	1	Roof timbers (dry): pitched roofs, rafters, purlins, joists, sarking, wall plates.	**TE/BI**	60 years
	1 or 2	Roof timbers (*Hylotrupes* areas): Where there is a risk of House Longhorn Beetle (*Hylotrupes bajulus L*) according to the Building Regulations [5] (applicable to England and Wales), the Building Standards Scotland [6] and the Building Regulations (Northern Ireland) [7]: pitched roofs, rafters, purlins, joists, sarking, wall plates.	**TE/BI**	60 years
	2	Roof timbers (risk of wetting): Where components are exposed to risk of wetting due to, for example, condensation: rafters, purlins, joists, sarking, wall plates, flat roofs (cold), enclosed beams, valley gutter timbers, flat roofs (warm inverted), exposed beams.	**TE/BI**	60 years
	2	Tiling battens	**TE/TB**	60 years
	2	External walls/ground floor joists. Timber frame material, external walls.	**TE/BI**	60 years
	2	Sole plates.	**TE/BX**	60 years
External building timbers above dpc level	3.2	Cladding*, soffits, fascias and barge boards.	**TE/BX**	15 years
	3.1	Cladding, soffits, fascias, barge boards subsequently protected with a maintained and appropriate surface coating.	**TE/BX**	30 years
	3.2	Cedar shingles.	**TE/CS**	30 years
Plywood	2	Exterior grade WBP (weather and boil proof only). BS EN 636 Exterior (BS EN 314 Part 2 bonding class 3).	**TE/EPa**	60 years
	3.2	Exterior grade WBP (weather and boil proof only).	**TE/EPb**	15 years
Fencing and landscaping timbers above ground contact	3.2	Rails, struts, gates, boards, slats, droppers, post caps, dowels, garden decking boards, farm building, pergolas, gazebos and playground equipment components above ground contact.	**TE/GFa*§**	15 years
Fencing, landscaping and farm buildings in ground contact or fresh water contact	4	Posts (square sawn or cleft, sawn and dressed, machine turned, natural rounds, half rounds), bearers, gravel boards, sleepers in ground contact. Farm buildings: timbers embedded in ground or prone to frequent wetting. Lock gates, revetments.	**TE/GFb*§ (softwood only)** **TE/HW* (hardwood only)**	15 years 15 years
Highway fencing above ground	3.2	To meet Highways Agency Specification Clause 311 or where a longer service life is required than general Use Class 3 timbers.	**TE/MF**	30 years
Heavy duty industrial	4	Where a longer service life is required than general Use Class 4 timbers.	**TE/HD (softwood only)**	30 years
	4	Highway fencing in ground contact: To meet Highways Agency Specification Clause 311.		30 years
	4	Transmission poles.		30 years
	4	Timbers used in fresh water cooling tower situations.		15 years
Packaging timbers in cargoes to Australia	3.2†	To comply with Australian Quarantine Regulations.	**TE/AQ Permeable softwood only#**	Not applicable

All specifications refer to treatment of both softwoods and hardwoods, unless otherwise indicated.

* Specify 'with Tanalith® Extra' for water repellent timber if desired.

§ Specify 'with Tanatone®' for brown coloured timber, if desired.

† Classification in accordance with Australian Standards AS1604

\# Includes most common pines eg. Scots Pine (Redwood) and Corsican Pine but not including Maritime Pine.

SPECIFICATIONS AND STANDARDS

Tanalith® E preservative is tested in accordance with the requirements of BS EN 599-1, including extended field trial testing, and treated in accordance with the penetration and retention requirements given in BS 8417. Care should be taken when specifying timber species to ensure that these can be treated in accordance with these penetration and retention requirements. Use Classes are defined in BS EN 335-1.

Tanalised® E treated timber meets NBS (Z12), NHBC, Zurich and WPA National Specifications.

DESIRED SERVICE LIFE

The desired service life does not provide a guarantee of performance but merely an indication of the expectation against which the recommendations for timber treatment are drawn up, assuming good design and normal conditions of use.