



# TREATMENT SPECIFICATIONS

FEBRUARY 2004

COMPONENT GROUP	HAZARD CLASS	COMPONENT DETAILS	TREATMENT CODE	DESIRED SERVICE LIFE	CYCLE CODE #
Tiling battens	2	Tiling battens.	TE/TB	60 years	E1
Internal building timbers	1	<b>Roof timbers (dry):</b> Pitched roofs, rafters, purlins, joists, sarking, wall plates.	TE/BI	60 years	E2
	1 or 2	<b>Roof timbers (Hylotrupes areas):</b> Where there is a risk of House Longhorn Beetle ( <i>Hylotrupes bajalus</i> L) according to the building regulations 1991 [5] (applicable to England and Wales), the Building Standards Scotland 1990 [6] and the Building Regulations (Northern Ireland) 1994 [7]: rafters, purlins, joists, sarking, wall plates.			
	2	<b>Roof timbers (risk of wetting):</b> 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 gutters, flat roofs (warm inverted), exposed beams.			
	2	<b>External walls/ground floor joists:</b> Timber frames, external walls.			
External building timbers above dpc level	3	Cladding, soffit, fascias and barge boards.	TE/BX*	15 years	E2 Thickness <15mm
	3	Cladding, soffit, fascias, barge boards subsequently protected with a maintained and appropriate surface coating.	TE/BX*	30 years	E3 Thickness >15mm
	3	Cedar shingles.	TE/CS	30 years	
Plywood	2	Exterior grade WBP (weather and boil proof) only.	TE/EP	60 years	E4 (E3 if stickered every 1 or 2 layers)
	3	Exterior grade WBP (weather and boil proof) only.		15 years	
Fencing and landscaping timbers above ground contact	3	Feather edge, rails, struts, gates, boards, slats, droppers, post caps, dowels, garden decking boards, farm building, pergola, gazebo and playground equipment components exposed above ground.	TE/GFa*	15 years	E2 Thickness <15mm (except with Tanatone use E3) E3 Thickness >15mm
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. Farm buildings: timbers embedded in ground or prone to frequent wetting.	TE/GFb* (softwood only)	15 years	E4
			TE/HW <sup>o</sup> (hardwood only)	15 years	E5
Highway fencing above ground	3	To meet Highways Agency Specification Clause 311.	TE/MF	30 years	E4
Heavy duty industrial	4	Highway fencing in ground contact: To meet Highways Agency Specification Clause 311. (For S2 species, 12mm sapwood penetration is required according to BS8417. To achieve this in Spruce, processes to improve penetration will be required, eg. incising.) Transmission poles, Railway sleepers. (S1 species only.)	TE/HD <sup>o</sup> (softwood only)	30 years	E5
Packaging timbers in cargoes to Australia	3†	To comply with Australian Quarantine Regulations.	TE/AQ S1 species only	not applicable	E6

SPECIES GROUPS	
S1	S2
Species with heartwood considered within treatability groups - <b>Permeable (P)</b> and <b>Moderately Resistant (MR)</b> .	Species with heartwood considered within treatability groups - <b>Resistant (R)</b> and <b>Extremely Resistant (ER)</b> .
Most common pines eg. Scots pine (redwood), Corsican pine and Radiata pine.	Spruce eg. European (whitewood) Norway spruce and Sitka spruce Larch Spruce pine fir (SPF)
Hemlock (when used for solid doors only).	Hem-fir Douglas fir Maritime pine
Not including Maritime pine.	CLS timber (Canadian Lumber Standard) Hemlock (all other uses).

UNLESS OTHERWISE STATED THE  
**MAXIMUM**  
 PRE-TREATMENT MOISTURE CONTENT MUST BE  
**28%**  
 Moisture content prior to treatment generally should be as the expected in-service moisture content

**REMEMBER:**  
**TREATED WOOD SHOULD BE HELD UNTIL DRY (DRIP FREE CONDITION) BEFORE DESPATCH**



**Arch Timber Protection**

BS EN  
ISO 9001  
FM 1636



For further information contact our Product Advisory Service  
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† Classification in accordance with Australian Standards AS1604

\* Specify 'with TANALITH® Extra™' for water repellent timber if desired.  
 Specify 'with TANATONE® colour additive' for brown coloured timber if desired.

o Higher solution strength specification - refer to your individual treatment cycle guidance note.

# Treatment cycles are plant specific - refer to your individual treatment cycle guidance note.

All specifications refer to treatment of both softwoods (S1 and S2 species) and hardwoods unless otherwise indicated.

**SPECIFICATIONS AND STANDARDS**

TANALITH® E conforms to the efficacy requirements of BS EN 599-1/BS 8417, and is treated in accordance with the penetration and retention guidance given in BS EN 351-1 to give a desired service life in the selected hazard class. Hazard classes are defined in BS EN 335-1.

**DESIRED SERVICE LIFE**

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

Arch Timber Protection updates its literature as and when necessary. Please ensure you have an up to date copy.  
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