

Preston

Wolverhampton

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Use Classes / Industry Specifications - tel 01772 336519

Use Classes / Industry Specifications

To help decide which preservative treatment is the most appropriate for your timbers there are various systems available based on industry standards and experience.

Use Classes

The Use Class system, defined in BS EN 335-1, helps to classify the levels of preservative protection required, depending upon the timber's eventual end use. The table below illustrates the system and the appropriate Arch treatments for each Use Class.



USE CLASS	USE SITUATIONS	PRINCIPAL BIOLOGICAL AGENCY	TYPICAL SERVICE SITUATION
1	Above ground, covered. Permanently dry. Permanently less than 18% moisture content	Insects	Internal with no risk of wetting or condensation.
2	Above ground, covered. Occasional risk of wetting. Occasionally more than 20% moisture content.	Fungi Insects	Internal with risk of wetting or condensation.
3.1	Above ground, not covered. Exposed to frequent wetting. Often greater than 20% moisture content.	Fungi	External, above damp proof course (dpc) – coated .
3.2	Above ground, not covered. Exposed to frequent wetting. Often greater than 20% moisture content.	Fungi	External, above damp proof course (dpc) – uncoated .
4	In contact with ground or fresh water. Permanently exposed to wetting. Permanently above 20% moisture content.	Fungi	Soil contact. Timbers in permanent contact with the ground or below dpc. Fresh water contact. Timbers in permanent contact with fresh water. Cooling tower timbers



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* Exterior woodwork should be subsequently protected with a maintained and appropriate surface coating. This list is not exhaustive. If your timber component is not listed, please contact Arch for further advice.

COMPONENT	USE CLASS	RECOMMENDED ARCH PRE-TREATMENT			
		TANALISED E	TANALISED EXTRA	TANATONE	VACSOL AQUA
1 Roof timbers (dry)	1	✓	X	X	✓
2 Roof timbers (risk of wetting)	2	✓	X	X	✓
3 Tiling battens	2	✓	X	X	✓
4 Barge boards, fascias, soffits	3.1	✓	X	X	✓*
5 Timber frame components	2	✓	X	X	✓
6 Frame sheathing - plywoods	2	✓	X	X	✓
7 External cladding	3.1/3.2	✓	✓	X	✓*
8 Battens for external cladding	2	✓	✓	X	✓
9 First floor joists	1	✓	X	X	✓
10 Ground floor joists	2	✓	X	X	✓
11 Internal joinery/doors	1	X	X	X	✓
12 External joinery/doors	3.1	X	X	X	✓*
13 Sole plates above dpc level	2	✓	X	X	✓
14 Decking out of ground contact	3.2	✓	✓	X	X
15 Decking in ground contact	4	✓	X	X	X
16 Fence posts	4	✓	X	✓	X
17 Fence rails/panels	3.2	✓	✓	✓	X
18 Garden products	3.2/4	✓	✓	✓	X
19 Transmission poles	4	✓	X	X	X
20 Packaging/pallet timbers	3.2	✓	X	X	X
21 Cedar shingles	3.2	✓	X	X	X
22 Cooling tower timbers	4	✓	X	X	X

Commodity Codes

The Wood Protection Association has developed a series of Commodity Codes for specifications that classify particular end uses of timber shown below. The appropriate Arch treatment is shown.

C1	Timber to be used in cooling towers.	
C2	Timber for use permanently or intermittently in contact with sea or fresh water.	
C3	Fencing timber	
C4	Agricultural and horticultural timbers	
C5	Non-load bearing external softwood joinery and external fittings (excluding cladding) not in ground contact	
C6	External timber cladding	
C7	Timber for use in buildings in termite infested areas	
C8	Constructional timbers	
C9	Timber framed housing	
C10	Hardwood external joinery	
C11	Wood based board and engineered wood products	
C12	Timber for decks and associated structures	

*For sea water contact applications please contact Arch for further advice.

National Building Specification Z12

The National Building Specification Z12 identifies specific clauses relating to the technology of preservative treatments that should be used for particular timber end uses. The table below shows the appropriate Arch treatments for these clauses.

SPECIFICATION CLAUSE	TYPE OF PRESERVATIVE TREATMENT	COMPLYING ARCH PRODUCT
140	Copper organic preservative treatment	
160	Organic solvent preservative treatment	
165	Water based micro-emulsion preservative treatment	

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