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2 WOOD TREATMENT

2.1 GENERAL

2.1.1 Scope

- 1 This Part specifies the use of preservative, insect protection and fire retardant treatment for wood construction, inclusive of Structural Timbers and Architectural woodwork. Unless stated otherwise in the Project Documentation, the guide to choice, use and application of wood preservatives is BS 1282 (BS 8417 Preservation of wood. Code of practice).
- 2 Related Sections are as follows:

This Section

- Part 1 General
- Part 3 Structural Timber
- Part 4 Architectural Timber
- Part 5 Joinery
- Part 6 Fasteners and Adhesives

2.1.2 References

- 1 The following standards are referred to in this Part:

- BS 1282.....Wood preservatives. Guidance on choice, use and application; (BS 8417 Preservation of wood. Code of practice)
- BS 5268.....Structural use of timber - Code of practice; (EN 1995-1-1 Eurocode 5: Design of timber structures - General. Common rules and rules for buildings; EN 338 Structural timber. Strength classes; CEN/TC 124 Timber structures: related Published Standards; ISO/TC 165 Timber structures: related Published Standards)
- BS 5707.....Specification for preparations of wood preservatives in organic solvents
- BS 6566.....Plywood; (EN 313-2 Plywood. Classification and terminology – Terminology; EN 315 Plywood. Tolerances for dimensions; EN 636 Plywood. Specifications; CEN/TS 1099 Plywood - Biological durability - Guidance for the assessment of plywood for use in different use classes; EN 635-1 Plywood - Classification by surface appearance - Part 1: General; EN 635-2 Plywood - Classification by surface appearance - Part 2: Hardwood; EN 635-3 Plywood - Classification by surface appearance - Part 3: Softwood)
- EN 1014Wood preservatives - Creosote and creosoted timber - Methods of sampling and analysis; (EN 1014-1 Wood preservatives - Creosote and creosoted timber - Methods of sampling and analysis - Part 1: Procedure for sampling creosote; EN 1014-2 Wood preservatives - Creosote and creosoted timber - Methods of sampling and analysis - Part 2: Procedure for obtaining a sample of creosote from creosoted timber for subsequent analysis; EN 1014-3 Wood preservatives - Creosote and creosoted timber - Methods of sampling and analysis - Part 3: Determination of the benzo(a)pyrene content of creosote; EN 1014-4 Wood preservatives - Creosote and creosoted timber - Methods of sampling and analysis - Part 4: Determination of the water-extractable phenols content of creosote)

2.1.3 Submittals

- 1 In accordance with the Project Documentation, provide certification as specified that required preservation treatment or fire retardant has been completed, or in the absence of specific requirement that at minimum the manufacturers required standard application has been used.
- 2 Provide a sample of woodwork as indicated by the engineer with required coatings or treatment application for testing where required.

2.2 PRESERVATIVE TREATMENT

2.2.1 General Application

- 1 The preservative treatment is to be applied by pressure impregnation or the double vacuum process. Dipping, deluging, spraying, brushing or other methods which only provide shallow protection are not permitted.
- 2 The treatment to be carried out under factory conditions at the source of supply of the timber and the Contractor is to provide a Certificate of Impregnation when required by the Engineer.
- 3 Treatment is to be carried out after all cutting and shaping has been completed. If subsequent cutting of the timber is unavoidable all freshly exposed surfaces are to receive a liberal application of the preservative recommended in the relevant treatment specification.

2.2.2 Standard Pressure Treated Preservative

- 1 Wood members and plywood exposed to weather or in contact with plaster, masonry or concrete, including wood framing of openings in exterior walls of concrete or masonry, roofed structures; wood sills, sole plates, furring; and, wood members used in connection with roofing and flashing materials to be treated in accordance with BS 1282, BS 5268, BS 6566, and/or BS 5707.

2.2.3 Other Preservative Treatments

- 1 Creosote and creosoted timber where used as structural timber to be sampled or analysed to EN 1014.
- 2

2.3 FIRE RETARDANT TREATMENT

2.3.1 General Application

- 1 Each piece of treated material will bear identification of the testing agency and will show the performance rating. Treatment and performance inspection, is to be by an independent and qualified testing agency that establishes performance ratings.

2.4 INSECT TREATMENT

2.4.1 General Application

- 1 All hardwood and softwood for permanent incorporation in the Works is to be treated with preservative to provide protection against damage from insect larvae, termites and fungal decay to BS 6566, Part 7. Organic solvent type preservatives are to contain a water repellent. Certificates are to be provided confirming all necessary treatments required have been completed.

END OF PART

ARAB ENGINEERING BUREAU