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12 CARPETING

12.1 GENERAL REQUIREMENTS

12.1.1 Scope

- 1 This Part specifies requirements for carpet and other textile floor coverings and installation requirements for the same.
- 2 Carpet and other textile floor coverings are collectively referred to as "carpet" in this Section.
- 3 Related Parts and Section are as follows:

This Section

Part 1	General
Part 9	Floor Screeds and Treatments
Part 11	Recessed Duct covers

Section 1	General
Section 18	Carpentry, Joinery and Ironmongery
Section 20	Painting and Decorating

12.1.2 References

- 1 The following standards are referred to in this Part:
 - BS 1006.....Methods of test for colour fastness of textiles and leather; (ISO 105 Textiles — Tests for colour fastness; ISO 11640 Leather - Tests for colour fastness — Colour fastness to cycles of to-and-fro rubbing)
 - BS 4223.....Methods for determination of constructional details of textile floor coverings with yarn pile.
 - BS 4682.....Methods of test for dimensional stability of textile floor coverings
 - BS 5229.....Method for determination of tuft withdrawal force of carpets
 - BS 5325.....Installation of textile floor coverings. Code of practice
 - BS 5808.....Specification for underlays for textile floor; (EN 14499 Textile floor coverings. Minimum requirements for carpet underlays)
 - BS 8203.....Code of practice for installation of resilient floor coverings

12.1.3 Submittals

- 1 The Contractor shall submit the following samples with an attached label stating brand name and ordering reference to the Engineer for approval:
 - (a) carpet, 300 mm square, of each colour and texture, with cut edges sealed if necessary
 - (b) metal edge strip, 150 mm long
 - (c) plastic edge strip, 150 mm long, each colour
 - (d) carpet edge strip, 150 mm long, each colour.
- 2 Manufacturer's certificates for the following shall be submitted:
 - (a) stating critical radiant flux rating of carpet
 - (b) stating approval of adhesive, crack filler and seaming tape
 - (c) installer's qualifications as specified.

- 3 Manufacturer's literature and data, including maintenance and cleaning manuals, shall be submitted to the Engineer.
- 4 Manufacturer's guarantee is to be provided for all carpeting is to be submitted. The guarantee shall be valid from the date of handover of the Works to a period of three (3) years unless otherwise stated in the Project Documentation. The guarantee shall cover excessive wear, edge ravel, backing separation, shrinking, stretching and static electricity. Excess surface wear means loss of more than 15 % by weight of face fibre.
- 5 Shop drawings, including installation layout plan showing seams and cuts, shall be submitted to the Engineer for approval.
- 6 All carpet and textile products used for flooring shall comply with the relevant provisions of BS 1006, BS 4223, BS 4682 and BS 8203.

12.2 CARPET CUSHION (UNDERLAY)

12.2.1 General

- 1 This Clause provides the specification for use of carpet underlay.

12.2.2 Materials and Workmanship

- 1 Underlays used for textile floor coverings shall comply with the relevant provisions of BS 5808 unless specified otherwise elsewhere in the Project Documentation.
- 2 All underlays containing natural fibre are to be mothproofed by the manufacturer.
- 3 Underlays of felt or cellular rubber, suitable for medium traffic shall be not less than 6 mm thick and shall weigh not less than 1.40 kg/m². For heavy traffic areas, underlays shall be to the manufacturer's recommendations.

12.3 SHEET CARPETING (STANDARD ROLL CARPET)

12.3.1 General

- 1 This Clause specifies installation of standard roll carpet.

12.3.2 Products

- 1 Carpet to be included in the Works will include manufacturer's written verification of following characteristics:
 - (a) construction type
 - (b) gauge
 - (c) finished pile height
 - (d) pile weight
 - (e) face yarn
 - (f) yarn weight
 - (g) dye method
 - (h) total weight
 - (i) static control
 - (j) primary backing
 - (k) secondary backing

12.3.3 Installation of Carpet

- 1 Carpet is to be installed in accordance with the requirements of BS 5325 by skilled operatives so that it is flat and sufficiently taut to ensure that movement of furniture over the surface does not cause racking to take place.
- 2 Carpet is not to be laid until:
 - (a) the building is weathertight
 - (b) the wet trades have finished their work
 - (c) all painted work is finished and dry
 - (d) the air-conditioning system is fully operational if the carpet is to be laid in the hot months between April and November
 - (e) socket outlets, duct covers and the like around which the carpet needs to be cut have been fixed
 - (f) the substrate is dry and clean.
- 3 Carpet is to be cut and fitted to all socket outlets and other fixtures and be cut in at all doorways and recesses. It is not to be pieced in.
- 4 Where practicable, room coverings are to start with a full width of carpet on the same side as the door.
- 5 On completion of the installation, all loose nap ends are to be trimmed and the carpet cleaned with a beater type vacuum cleaner. Upon completion of the cleaning, the carpet shall be covered with clean dustsheets, hardboard or similar, as necessary to prevent damage from dust and traffic until handover.
- 6 Spare carpet suitable for patching is to be handed to the Engineer.

12.3.4 Installation of Carpet Using Tackless Fixings

- 1 Unless the manufacturer specifically recommends otherwise, all carpet other than foam backed and fibre bonded carpet, shall be fixed by means of tackless strip (gripper).
- 2 The underlay is to be installed so that its seems do not shadow through the carpet and do not coincide with those of the carpet when laid in the same direction. Uneven edges are to be overlapped and cut through.
- 3 The seams of rubber and rubber-based underlays are to be joined with approved tape not less than 50 mm wide.
- 4 The underlay is to be fixed along its perimeter in accordance with the manufacturer's recommendations and be butted up to the edge of the gripper.
- 5 The underlay is to cover the treads and risers of stairs and be fixed to prevent movement and wrinkling.
- 6 Seams in carpet are to be joined by approved heat-bonded tape unless alternative forms of jointing are indicated elsewhere in the Project Documentation. Care is to be taken to ensure that:
 - (a) the joints are strong enough to permit the carpet to be stretched and not break down under use
 - (b) the pile is laying in the same direction
 - (c) the pattern matches where a repeating motif occurs
 - (d) the pile is not caught down into the seam
 - (e) the seams are straight.

- 7 The carpet is to be laid with the seams parallel to one main axis of the room.
- 8 The gripper is to be fixed around the perimeter of the area to be covered, leaving a gap approximately two thirds of the thickness of the carpet. The carpet should be stretched into position over the gripper using a knee kicker or power stretcher as appropriate to form a neat edge.
- 9 Binder bar are to be used at all free edges of carpet and double binder bar are to be used where carpets of a different type, colour or pattern meet.
- 10 Single or double binder bars as appropriate are to be used at all doorways situated under the centre line of the door leaf. Grippers are not to be fixed across doorways.
- 11 At stairs, the pile of the carpet is to be inclined towards the bottom of the stair unless otherwise recommended by the manufacturer and approved by the Engineer. Grippers are to be fixed to the bottom of all the risers and to the adjacent horizontal surface of the tread.
- 12 All carpet is to be re-stretched at least once during the Maintenance Period.

12.4 CARPET TILES

12.4.1 General Description

- 1 This Clause specifies carpet tiles or modules, edge strips, adhesive, and other items required for the installation specified.

12.4.2 Submittals

- 1 In accordance with the relevant provisions of Section 1 the Contractor is to provide:
 - (a) samples
 - (i) one carpet module of each type, colour and texture.
 - (ii) plastic edge strip, 150 mm long, for each type, colour and texture
 - (b) manufacturer's certificates:
 - (i) stating critical radiant flux rating of the carpet modules.
 - (ii) approving the proposed method of installation, type of adhesive, crack filler
 - (c) manufacturer's literature and data, including maintenance and cleaning manual
 - (d) shop drawings showing:
 - (i) dimensions of carpeted areas
 - (ii) pattern direction and layout
 - (iii) location of edge strips.

12.4.3 Installers Qualifications

- 1 The carpet modules are to be installed by operatives regularly engaged in installing carpet modules and accessories of the type specified.

12.4.4 Carpet Tiles

- 1 Carpet tiles to be included in the Works will include manufacturer's written verification of following characteristics:
 - (a) construction type
 - (b) gauge
 - (c) finished pile height

- (d) face yarn
- (e) yarn weight
- (f) dye method
- (g) total weight
- (h) backing
- (i) static control

12.4.5 Accessories

- 1 Adhesive and crack fillers shall be types recommended by the carpet module manufacturer.
- 2 Plastic edge strips shall be the custom type, with an integral 40 mm wide base and 6 mm lip.

12.4.6 Surface Preparation

- 1 Cracks and holes in subfloors shall be filled with crack filler to give a smooth and level surface.
- 2 Grease, loose particles, dirt and all other foreign substances shall be removed
- 3 When placing carpeting over existing waxed floors, the wax is to be removed prior to laying the carpet.
- 4 Concrete floors are to have dust thoroughly removed by sweeping and wet mopping. The concrete is to be sealed as per carpet manufacturer's recommendations.

12.4.7 Installation

- 1 The manufacturer's installation instructions shall be followed.
- 2 Release type adhesives, applied as recommended by the carpet tile manufacturer, shall be used.
- 3 The carpet tile manufacturer's recommendations for matching pattern and texture shall be followed.
- 4 Lay carpet tiles uniformly to provide a tight, smooth finish. The carpet is to be free from movement when subjected to traffic.
- 5 Install carpet with the pile inclination in one direction.

12.4.8 Edge Strip Installation

- 1 Edge strips shall be installed over exposed tile edges adjacent to uncarpeted finish flooring.
- 2 Edge strips shall be anchored to floors with suitable fasteners or adhesive. If adhesive is used, the following installation sequence shall be followed:
 - (a) apply adhesive to the edge strips
 - (b) insert tile into the lip of the edge strip
 - (c) press down lip over carpet.

12.4.9 Protection and Cleaning

- 1 On completion of the installation, the carpet shall be cleaned with a beater type vacuum cleaner.
- 2 Remove spots and smears of adhesive from the carpet surface with approved cleaning agents.
- 3 Upon completion of the cleaning, the carpet shall be covered with clean dustsheets, hardboard or similar, as necessary to prevent damage from dust and traffic until handover.

12.5 WALL CARPET

12.5.1 General Requirements

- 1 This Part specifies the requirements for wall carpeting.
- 2 Carpet to be included in the Works will include manufacturer's written verification of following characteristics:
 - (a) construction type
 - (b) gauge
 - (c) finished pile height
 - (d) face yarn
 - (e) yarn weight
 - (f) dye method
 - (g) total weight
 - (h) backing
 - (i) static control

12.5.2 Installation

- 1 Carpet is to be installed by skilled operations so that it is flush to the wall and sufficiently taut to ensure no bubbles or loose areas are to occur.
- 2 Carpet installation will be in accordance with the relevant provisions of Clause 12.3.3 or 12.3.4.
- 3 The Contractor is to use methods of fixing as necessary in order to ensure achieving the requirements above. This may include the use of adhesive, tackless strips or tacks. The Contractor is to obtain the Engineers approval of the method to be used prior to installation.

12.6 OUTDOOR CARPET

12.6.1 General Requirements

- 1 Textile floor coverings for outdoor use specifically manufactured for outdoor use. The manufacturer shall submit a certificate stating that the carpet to be used is suitable for outdoor use when subjected the climatic conditions normally encountered in Qatar.
- 2 Synthetic product for outdoor carpeting shall comply with the relevant provisions of BS 1006 and BS 4682.

12.6.2 Installation

- 1 Installation of outdoor carpeting shall be in accordance with the relevant provisions of BS 5325 and the manufacturer's requirements.

12.7 CARPET ADHESIVES

12.7.1 Installation of Carpet Using Adhesive

- 1 Adhesives used for fixing carpet are to be waterproof, peel-up type recommended for the purpose by the carpet manufacturer.

- 2 Fibre bonded, high density foam backed carpet and carpet where the manufacturer specifically so recommends shall be fully bonded to the floor using a peel-up adhesive applied in accordance with the manufacturer's instructions. Low density foam backed carpet (less than 1.2 kg/m² backing weight) should not be fixed with adhesive.
- 3 Joints in the carpet are to be bonded with adhesive recommended by the manufacturer of the carpet are to be parallel to one main axis of the room. Where applicable care is to be taken to ensure that:
 - (a) the pile is laying in the same direction.
 - (b) the pattern matches where a repeating motif occurs.
 - (c) the pile is not caught down into the joint.
 - (d) the joints are straight.
- 4 Adhesive marks are to be removed from the carpet and other exposed surfaces as the work proceeds.
- 5 Edge trim or dividing strip is to be used at free edges and where carpets of different type, colour or pattern meet. The trim or strip is to be situated under the centreline of the door leaf at all doorways.
- 6 At stairs the pile of the carpet is to be towards the bottom. The carpet is to be folded under any exposed edges and fixed to each tread and riser as one continuous piece unless a nosing is provided.

12.7.2 Tapes and Trims for Carpet

- 1 Adhesive tapes for seams are to be approved heat bonded type, minimum 75 mm wide, and as recommended by the manufacturer of the carpet.
- 2 Fixing bars and carpet grippers used with self adhesive surface strip or for application of adhesive, are to be of the type recommended by the manufacturer of the carpet and are to have an anodised aluminium finish to exposed surfaces where applicable.

END OF PART