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## 13.00 Floor Finishes

### 13.01 Colours

Colours of all floor finishes shall form part of the overall colour scheme and maintainability for the building.

Light and plain colours should generally not be used, particularly in high traffic areas or adjacent to external entries.

Colours and patterns to carpet and vinyl finishes shall be selected from the nominated manufacturer's standard product range. No custom patterns will be permitted without the written permission of the Superintendent.

Carpet and vinyl selections shall be submitted to the Superintendent for approval prior finalising the building colour scheme to be presented to Users.

### 13.02 Carpet Finishes

Carpet finishes shall be used generally throughout all GU buildings.

GU has adopted patterned, tufted loop pile, 100% solution dyed nylon modular carpet tiles as its standard finish.

Further to the constraint in noted Clause 13.01 regarding the use of light and plain colours in floor finishes, this also applies to the use of single colour carpet tiles in floor feature strips or panels. Where such features are proposed utilising bright colour for effect, the feature colour must be uniformly mottled with charcoal or black such that the feature colour does not exceed approx. 50% of the surface area of the carpet tile. Samples of the proposed feature carpet tile must be submitted to the Superintendent for approval.

Carpet tiles shall be classified commercial extra heavy duty/stair, in accordance with the Australian Carpet Classification Scheme (ACCS) and Level 4 (A) in accordance with the Environmental Classification Scheme (ECS).

Carpet tiles shall be selected from the **Ontera**, **InterfaceFLOR** or **Godfrey Hirst** standard range of tiles to meet the following criteria;

- Critical radiant flux values shall be in accordance with the current version of the BCA,
- The total VOC limit shall be 0.5mg/sqm,
- The electrostatic propensity shall be 2500v max. at a relative humidity of 25%,
- 15 year warranty for wear, dimensional stability, electrostatic propensity and chair castor impact.

The carpet finish in individual buildings shall be sourced from a single manufacturer with a maximum of three (3) patterns. Each colour and pattern used shall be from the same manufacturing batch and dye lot, including spare tiles.

Whenever small areas of carpet require replacement in an existing building which is fitted with **Autex** polypropylene sheet or tile carpet finishes, matching carpet shall be installed. If a matching colour cannot be obtained, then a substitute colour, or alternative carpet, will be advised by the Superintendent.

Carpet tiles shall be fully adhered to the substrate with a low VOC (<50g/L) water based acrylic pressure sensitive adhesive approved by the tile manufacturer. Carpet on risers shall be fixed using a double bond system.

Cut tiles shall not be less than half a tile unless absolutely necessary with the prior approval of the Superintendent.

Spare tiles equivalent to 1% of the area installed shall be provided to the Superintendent in sealed cartons labelled '*Spare Carpet Tiles + Building No. + Date*'. The batch number and dye lot shall be clearly noted on each carton.

### 13.03 Vinyl Finishes

Vinyl shall only be used in those areas as noted on the SDFs, and shall be **Tarkett** 'Emminent', **Armstrong** 'Accolade' or **Polyfloor** 'Classic Mystique PUR'. All vinyl finishes in an individual building shall be sourced from the one manufacturer.

All vinyl flooring shall comply with the Introductory Guide HB 197:1999 published by CSIRO and Standards Australia, for slip resistance.

Corridors and circulation areas directly connecting laboratories, but not comprising primary circulation through the building, shall have vinyl finish.

All joints shall be welded. Vinyl shall be fixed to floor using adhesive equal in all respects to 'Polymer 265'.

Vinyl to wet areas such as toilets, cleaner's rooms, common rooms at servery counters, isolated basins and drinking fountains, shall be an approved non-slip safety sheet vinyl equivalent to 'Armstrong Accolade Safe Plus' with a minimum slip resistance of R10. Provide a separate continuous strip of vinyl up to 600mm wide under all urinals to facilitate easy replacement if floor staining becomes excessive. This strip does not need to be a different colour from the rest of the flooring.

To wet areas where barefoot use will occur e.g. pool surrounds, change rooms, shower and drying areas, Altro T20 safety flooring shall be used.

Approved anti-static vinyl shall be installed in all areas subject to static electricity discharge eg. TER rooms, bio-boxes etc. In TER rooms, the vinyl shall be covered up the walls to a height of 150mm as described in **Clause 13.04**.

In areas where foot traffic noise may cause disturbance or where the foot surface needs to be softer such as physiotherapy areas where staff and students will be standing/working for long periods, 4mm 'Acoustifloor' cushion vinyl may be required.

Concrete floor slabs to receive vinyl flooring shall be properly prepared in accordance with the sheet manufacturer's printed instructions including grinding to remove ridges and all hollows filled with an approved levelling compound, to provide a clean level surface.

Lift car floors shall be covered with an approved 3mm thick studded sheet rubber flooring to meet critical radiant flux values in accordance with the current version of the BCA. Flooring shall be adhesive fixed strictly in accordance with the manufacturers recommendations.

### 13.04 Vinyl Skirtings

Black vinyl feather-edge skirtings of 150mm height shall be provided to all internal partitions except where walls are tiled or where other floor finishes are turned up walls.

In all laboratories and other wet areas, the flooring shall be covered up the walls to a height of 150mm. Coves shall be to a maximum 25mm radius, and shall be fully backed with a rigid cove former. The height of coved skirtings in toilets and showers shall be determined by the height above f.f.l. of the wall panelling (refer **Section 12.00 Wall Finishes**, Clause 12.12).

Painted skirtings will not be accepted to any areas.

### 13.05 Ceramic Tile Finishes

The use of ceramic tiles on floors shall be to the approval of CLF.

Floor tiles shall be anti-slip with dark grout (charcoal or similar) and shall finish level with adjacent finishes. Careful consideration must be given to the colour selection of floor tiles to ensure an acceptable visual appearance of the tiles after cleaning as a result of the anti-slip finish.

Appropriate caulked expansion joints shall be provided as required including the junction of tiles floors with walls. All tile layouts shall be approved by the Superintendent.

All tiles shall comply with the following criteria:

Physical Properties	Standard	Values
Surface qualities	ISO 10545-2	Length and width + or - 0.6% Warpage of edges + or - 0.5% Thickness + or - 0.5% Wedging + or - 0.6% Flatness + or - 0.5%
Water Absorption	ISO 10545-3	> 0.5%
Modulus of Rupture	ISO 10545-4	$\geq 27 \text{ N/mm}^2$
Deep Abrasion	ISO 10545-6	> 205 $\text{mm}^2$
Coefficient of Linear or Thermal Expansion	ISO 10545-8	> $9^0 \text{ K}^{-1}$
Resistance to Thermal Shock	ISO 10545-9	No visible defects
Moisture Expansion	ISO 10545-10	> 0.05%
Crazing Resistance	ISO 10545-11	No visible defects
Chemical Resistance	ISO 10545-13	No visible defects
Resistance to Stains	ISO 10545-14	No visible defects
Slip Resistance	AS 4586-2013	Refer to ABCB Advisory note 2014-1 'Slip-resistance for Stairways, Landings and Ramps' dated August 2014

### 13.06 Nosings, Junctions & Trims

Nosings to step treads in aisles of Lecture Theatres, shall be a proprietary AS 1428.1-2009 compliant anodised aluminium nosing with a non-slip insert equal to Latham Asbraloy FA501S. The nosing shall be securely screw fixed direct to the surface of tread. The tread finish shall be scribed and butted to the rear edge of the nosing, however the front lip of the nosing is required to overlap the riser finish. Illumination of the stair tread shall be means of aisle lighting units as specified in **Section 20.00 Electrical Services**, attached to the end of the seating rows on both sides of the stair flight.

Provide a 50mm x 6mm flat clear anodised edge trim to the junction of the platform and riser in tiered floor Lecture Theatres. The trim is to be screw fixed to the riser at the top edge before the floor coverings are installed.

Junctions of dissimilar floor finishes shall be achieved using brass angles or strips set into the slab. Separation strips are not required between vinyl finishes and carpet tile.

### 13.07 Door Mats

Provide internal 'door mats' to carpeted areas at external entry doors. Mats shall be selected Ontera 'W.O.M.B.A.T' or InterfaceFLOR 'Entry Level' carpet tiles, laid in full tile modules to suit width of door x three (3) tiles deep.

Provide similar mats where the internal entry finish is ceramic tiles, stone paving or other hard finish. Provide a brass or stainless steel angle or strip trim at the junction between the mat and the hard finish.

Recessed mat wells with drainage are not required.

### **13.08 Plant Room**

Floors to Plant Rooms, Lift Motor Rooms and accessible Service Cupboards shall be painted with an approved paving paint.

### **13.09 Thresholds**

Provide an approved tapering clear anodised aluminium threshold at all external doors.

### **13.10 Access Floors**

Access floors where required by the Space Description Forms shall be a 'Unistrut MK.25A' gridless system as required for the room function.

A 150mm high flat black PVC skirting to be used at the floor perimeter.

### **13.11 Alternative Finishes**

Where finishes other than carpet, vinyl or ceramic tile finishes as previously nominated are proposed, full details/data relating to the durability, the cleaning regime and manufacturer's warranty associated with those finishes must be submitted to CLF for consideration and approval prior to their incorporation into a project.

### **13.12 Tactile Indicators**

Refer to Section 6.00 Staircases & Ramps Clause 6.06 for details of permitted tactile Ground Surface Indicators (TGSIs)