

**DIVISION 09 - FINISHES**

<b>PLASTER AND GYPSUM BOARD</b>	<b>09 20 00</b>
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Gypsum Board Finish Levels:

1. For occupied spaces and surfaces exposed to public view:
  - a. Provide a lightly textured finish over a Gypsum Association (GA) Level 4 finish
  - b. Smooth finish over a GA Level 5 finish may be used in specific areas if approved by the University's Representative.
2. For unoccupied areas, such as storage and mechanical rooms, provide a medium texture finish over a GA Level 3 finish.
3. For concealed spaces such as shafts or spaces above the ceiling areas, and areas where gypsum board is used as a substrate for tile, provide a GA Level 2 finish.

For exterior cement plaster, refer to the University's Standard Specification Sections 09 22 36.23 Cement Plaster lathing and Lath Accessories and 09 24 00 Portland Cement Plastering.

<b>ACOUSTICAL CEILINGS</b>	<b>09 51 00</b>
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Heavy-duty suspended grid.

<b>FLOORING</b>	<b>09 60 00</b>
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1. If selecting flooring other than linoleum, vinyl composite tiles (VCT), roll carpet, or carpet tiles, consult the University's Representative to confirm the additional purchase and storage of attic stock for future repairs.
2. Plank flooring: Careful consideration shall be given prior to specifying vinyl or laminate plank flooring, including foot traffic, acoustics, maintenance, and storage of attic stock. Since product lines are routinely updated, flooring may need to be replaced in full in the event of significant wear or damage. Storage for attic stock must be available at project site, consult the University's Representative. In renovation projects, existing subfloor properties may be incompatible with the use of plank flooring.

<b>BASE AND ACCESSORIES</b>	<b>09 65 13</b>
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1. Base: Thermoplastic rubber (TR) or thermoset vulcanized rubber (TS). Consult the University's Representative prior to specifying thermoplastic vinyl (TV) base.
2. Adhesives:
  - a. Aerosol adhesives shall not exceed the VOC limits specified in the Green Seal Standard GS-36 (01/11/2011)
  - b. Non-aerosol adhesives and primers shall not exceed the VOC limits specified in the South Coast Air Quality District Rule 1168 (01/07/05).

<b>RESILIENT SHEET FLOORING</b>	<b>09 65 16</b>
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1. General Requirements:
  - a. Chemical-use laboratories, glass wash or other areas where liquids are used or stored shall have watertight flooring.

- i. Provide seam sealed, non-pervious, one piece flooring with a slip resistance coefficient of 0.6 or greater and at least a 4-inch continuous cove or equivalent. Flooring material to be compatible with the chemicals to be used or stored.
- ii. Flooring at Permanent Cabinets: Resilient flooring is required under fixed floor cases and cabinets.

<b>RESILIENT LINOLEUM FLOORING</b>	<b>09 65 16.13</b>
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- 1. General Requirements: Linoleum shall not be used in wet environments.

<b>RESILIENT TILE FLOORING</b>	<b>09 65 19</b>
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- 1. Vinyl Composition Tiles (VCT):
  - a. Shall be 12 inches by 12 inches
  - b. Recommended in areas of heavy traffic
  - c. Shall not be used in area requiring water-tight flooring

<b>CARPETING</b>	<b>09 68 00</b>
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Colors and shades selected should be of medium intensity (not so light as to easily show soiling or so dark as to show dust and lint). Multi-colored and non-directional patterns are desirable for their soil-hiding capability. Solid color carpet should not be used.

Carpet shall be certified by the California Gold Sustainable Carpet Standard at the gold or platinum level. Carpet tile systems shall not exceed the target emissions factors of the Carpet and Rug Institute's following programs:

- 1. Carpet: Green Label Plus Program and Testing Procedures.
- 2. Carpet Cushion: Green Label Program and Testing Procedure
- 3. Carpet Adhesive: Green Label Program and Testing Procedure.

Handicapped Requirement -  $4500 \text{ (min)} = (\text{yarn weight}) (36) \text{ divided by pile height.}$

**ROLL CARPET**

Type: Carpet shall be installed by direct glue-down method, unless otherwise noted, and shall be a woven or tufted product, meeting or exceeding the following criteria.

Construction - Woven or tufted

Texture - Loop pile

Fiber - 3rd or 4th generation continuous filament soil hiding nylon; Allied Chemical, DuPont, Badische, or equal.

Face Weight:

Woven: Minimum 25 oz.

Tufted: Minimum 28 oz.

Gauge: Minimum 1/8 inch

Density:

Woven: Minimum 5100

Tufted: Minimum 6000

Warranty: 10 year limited wear warranty.  
Primary Backing: nonwoven synthetic  
Secondary backing: High performance precoat laminated to a thermoplastic polyolefin compound with a fiberglass reinforced layer. Backing shall contain a minimum of 10 percent recycled content by total weight of product. Backing should be recyclable, PVC free, free of 4-PCH, brominated flame retardants, and phthalate plastizers.

**CARPET TILE**

Carpet Type: Carpet tile shall be manufactured by Shaw Commercial, Interface, Bentley, Patchcraft, Mohawk, Mannington, or equal, and in accordance with the following specifications.

- Yarn: Solution Q nylon, post-consumer type 6 nylon, or type 6-6 nylon
- Gauge: 85 sq. inches
- Yarn Weight: 15 oz./sq. yard minimum
- Stitches/6 inc.: 55.2.
- Pile Height: 0.250 in.
- Tile Size: Standard carpet tile dimensions
- Warranty: 10 year limited wear warranty
- Adhesive: Pressure sensitive, releasable adhesive from the same manufacturer as the carpet tile

**WALK-OFF CARPET TILES**

- Provide walk-off carpet tiles at main building entrances where the primary finish is carpet.
- Yarn: Solution Q nylon, post-consumer type 6 nylon, or type 6-6 nylon
- Manufacturer: Same as carpet.
- Adhesive: Pressure sensitive, releasable adhesive from the same manufacturer as the walk-off carpet tile

<b>PAINTING AND COATING</b>	<b>09 90 00</b>
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Materials shall be top-of-the-line products by firms with over 5 years manufacturing experience with a full product line. Prime coats and finish coats for any 1-paint system shall be the products of the same manufacturer.

Architectural coatings shall comply with the Green Seal Standards GS-11 (01/01/10) and the most current LEED Requirements, whichever is more stringent.

1. Aromatic Compounds: the product shall contain no more than 1.0 percent by weight of the sum total of aromatic compounds. Testing for the concentration of these compounds shall be performed if they are determined to be present in the product during a materials audit.
2. Prohibited Chemicals: the manufacturer shall demonstrate that the following chemical compounds are not used as ingredients in the manufacture of the product.
  - a. Halomethanes: methylene chloride
  - b. Chlorinated ethanes: 1,1,1-trichloroethane
  - c. Aromatic solvents: benzene, toluene (methylbenzene), ethylbenzene
  - d. Chlorinated ethylenes: vinyl chloride

- e. Polynuclear aromatics: naphthalene
- f. Chlorobenzenes: 1,2-dichlorobenzene
- g. Phthalate esters: di (2-ethylhexyl) phthalate, butyl benzyl, phthalate, di-n-butyl phthalate, di-n-octyl phthalate, diethyl phthalate, dimethyl phthalate
- h. Miscellaneous semi-volatile organics: isophorone
- i. Metals and their compounds: antimony, cadmium, hexavalent chromium, lead, mercury
- j. Preservatives (antifouling agents): formaldehyde
- k. Ketones: methyl ethyl ketone, methyl isobutyl ketone
- l. Miscellaneous volatile organics: acrolein, acrylonitrile

#### EXECUTION

Backprime all wood installed against steel, concrete, plaster, or tile, and all wood with surfaces exposed in exterior locations.

A single color matching walls and ceilings shall be used on all surfaces. Visible surfaces behind vents, grilles, etc., shall be painted flat black. Insides of all drawers, shelves inside cabinets, and other wood surfaces where scheduled or noted shall be given one coat of clear gloss lacquer, or clear polyurethane-base varnish.

#### VENTILATION

The room/space shall be supplied with 100 percent outside air during painting and for a period of 72 hours following completion of painting. The air leaving the room/space shall be exhausted only to the outside, with no distribution to any occupied spaces during painting and for a period of 72 hours following completion of painting.

End of Division 09