

SECTION 09 65 00
RESILIENT FLOORING
Design Standard

PART 1 GENERAL

1.1 PURPOSE:

San Mateo County Community College District engaged various industry specialists and end-users to establish architectural and furniture standards to be applied to capital construction projects. The task force considered various criteria, including aesthetics, durability, maintainability, sustainability, acoustics, and cost (both first cost and life cycle cost). The products selected were carefully evaluated, tested and approved following a rigorous shared governance process. The outcome of this initiative was the identification of a palette of inspirational, timeless and sustainable building and furnishing materials, providing a holistic approach to the campus environment.

This resulting resilient flooring standard should be applied to all new construction, modernization, renovation and replacement projects.

San Mateo County Community College District is strongly committed to promoting sustainability throughout their campus projects. Section 01 81 13 Sustainability of the Design Standard provides guidelines and recommendations for implementing sustainability strategies. Where relevant, specific sustainability criteria is noted in this section; however, each project team should review and cross reference that front section while developing the specific project and its documentation. Each discipline shall conform that specific performance and manufacturer information provided in the specification section is in alignment with code requirements, LEED criteria, and any other goals for sustainability.

PART 2 PRODUCT:

2.1 RESILIENT FLOORING

- A. The preferred resilient flooring material is Forbo Marmoleum Real and Marmoleum Modular, 2.5mm sheet and tile linoleum, limited to selected color options for each campus.
- B. SMCCCD standard wayfinding cues are to be incorporated into the flooring, as follows:
1. Interesting and bold patterning at major entries, including watercut features (see the photo of the Skyline College Trojan embedded into the linoleum flooring at the lower entrance of the gymnasium, near the athletic hall of fame)
- C. Specify heat-welded seams
- D. Specify 4" topset rubber base in all conditions
1. Specify in long rolls (100' lengths) to minimize seams thereby lessening the risk of having base torn loose from the walls. Specify good practice installation requirements including:
 2. Minimize joints
 3. No joints in corners
 4. No pieces less than 24". Use full length sections around pilasters and appurtenances.



- 5. Score corners
- 6. Roll out base during installation

2.2 ALTERNATIVES

- A. Alternates to sheet linoleum: Although new permanent installations are to use Forbo sheet linoleum, occurrences may exist where it is appropriate to specify:
- B. Forbo Modular: linoleum tile (use the same colorways as noted below adding a “T” for tile before the product number).
- C. Armstrong Excelon VCT on lower priority spaces, temporary spaces, and those where the life-cycle costs do not warrant the installation of Forbo linoleum. Do not butt VCT to linoleum unless the gauge difference in the materials is accounted for in the design.
- D. Altro Maxis Safety Flooring in moist environments, such as botany prep rooms or cadaver rooms, where synthetic safety floors are required by program.
- E. Any deviation from the Forbo sheet linoleum standard must be approved by the Executive Director of Construction Planning or the Vice Chancellor of Facilities.

Table 1: Forbo Sheet Linoleum, 2.5mm thickness
Forbo Linoleum Tile, 2.5mm thickness

College	Approved Color Palette Options	Weld Rod
Cañada College	Forbo / 3120 Rosato, T3120 (tile) Forbo / 3232 Horse Roan, T3232 (tile) Forbo / 3233 Shitake, T3233 (tile) Forbo / 2707 Barley, T2707 (tile) Forbo / 3048 Graphite, T3048 (tile) Forbo/ 3255 Pine Forest, T3255 (tile) Forbo/ 2629 Eiger, T2629 (tile)	Weldrod S 2010-Y20R Weldrod S 3010-Y20R Weldrod S 4020-Y30R Weldrod S 1515-Y30R Weldrod S 7502-Y Weldrod S 6020-G50Y Weldrod S 6005-G80Y
College of San Mateo	Forbo / 3120 Rosato, T3120 (tile) Forbo / 3232 Horse Roan, T3232 (tile) Forbo / 3233 Shitake, T3233 (tile) Forbo / 2707 Barley, T2707 (tile) Forbo / 3048 Graphite, T3048 (tile) Forbo/ 3255 Pine Forest, T3255 (tile) Forbo/ 2629 Eiger, T2629 (tile)	Weldrod S 2010-Y20R Weldrod S 3010-Y20R Weldrod S 4020-Y30R Weldrod S 1515-Y30R Weldrod S 7502-Y Weldrod S 6020-G50Y Weldrod S 6005-G80Y

Skyline College	Forbo / 3120 Rosato, T3120 (tile) Forbo / 3232 Horse Roan, T3232 (tile) Forbo / 3233 Shitake, T3233 (tile) Forbo / 2707 Barley, T2707 (tile) Forbo / 3048 Graphite, T3048 (tile) Forbo/ 3255 Pine Forest, T3255 (tile) Forbo/ 2629 Eiger, T2629 (tile)	Weldrod S 2010-Y20R Weldrod S 3010-Y20R Weldrod S 4020-Y30R Weldrod S 1515-Y30R Weldrod S 7502-Y Weldrod S 6020-G50Y Weldrod S 6005-G80Y
Notes:	When adjoining different colors, generally use the weld rod associated with the darker color. But this should be considered on a case by case basis and presented for approval. In some instances, a design might be better served by using a non-matching weld rod color; this should be considered on a case by case basis and presented for approval. Colors referenced above are for existing building tenant improvements. A/E to propose colors for New Building and Major Modernization projects.	

Table 2: Burke 4" Topset Rubber Wall Base, Style TP

College	Color Options
Cañada College	Black Brown 523
College of San Mateo	Black Brown 523
Skyline College	Black Brown 523

Table 3: Armstrong 12" Vinyl Composition Tile (VCT)

College	Color Options
Cañada College	51836 Shelter White 51839 Fortress White 51802 Silver Green 51884 Greenery 51942 Curried Caramel 51927 Field Gray
College of San Mateo	51839 Fortress White 51805 Camel Beige 51875 Mid Grayed Blue 51836 Shelter White 51910 Classic Black 57504 Chocolate 51946 Gentian Blue
Skyline College	51875 Mid Grayed Blue 51943 Cayenne Red 51805 Camel Beige 51839 Fortress White 51804 Earthstone Greige 51872 Tea Garden Green
Notes:	Colors referenced above are for existing building tenant improvements. A/E to propose colors for New Building and Major Modernization projects.

Table 4: Altro Symphonia 2.0mm Safety Sheet Flooring

College	Color Options
Cañada College	PH2001 Pony
College of San Mateo	PH2001 Pony PH2029 Whirlpool PH2019 Koala
Skyline College	PH2001 Pony PH2013 Colt
Notes:	<p>joints and miters should always be cut-in, grooved and heat welded with Altro Weldrod At transitions to a different material, such as ceramic tile or carpet, specify the use of Altro Maxis Visedge VR vinyl edge securing strip, heat welded</p> <p>Colors referenced above are for existing building tenant improvements. A/E to propose colors for New Building and Major Modernization projects.</p>

Table 5: Roppe Rubber Stair Treads

College	Color Options
Cañada College	tbd
College of San Mateo	tbd
Skyline College	Lunar Dust 114

2.3 DOOR JAM TRANSITIONS

For wet environments such as rest room ceramic tile to corridor resilient flooring: specify a marble threshold, ½”thick honed.

2.4 APPROVED MANUFACTURERS

- A. Forbo
- B. Burke
- C. Armstrong
- D. Altro
- E. Roppe

PART 3 EXECUTION

3.1 SUBSTITUTIONS ALLOWED?

No substitutes allowed.

Pursuant to Section 3400 of the Public Contract: “Forbo”, “Armstrong”, “Altro”, “Burke” and “Roppe” are now in use on the particular public improvement described as San Mateo County Community College District. At each instance in these specifications that a designated material, product, thing or service is designated by the brand name “Forbo”, “Armstrong”, “Altro”, “Burke” and “Roppe” or “Forbo”, “Armstrong”, “Altro”, “Burke” and “Roppe” is designated to support the existing central resilient flooring system that is in place at Skyline College, College of San Mateo, Cañada College and the District Administration Building. The Contractor will furnish and apply only “Forbo”, “Armstrong”, “Altro”, “Burke” and “Roppe” as required, and no substitutions shall be deemed to be “or equal” or allowed.

3.2 ASSOCIATED DESIGN STANDARDS AND CONSTRUCTIONS SPECIFICATIONS

N/A

END OF SECTION