



09250

Gypsum Drywall

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

CONTENTS

A. [Summary](#)

A. Summary

This section contains general design criteria for gypsum drywall.

Yale School of Medicine

STEEL STUDS

General: Steel framing system.

Gauge: Minimum 20 gauge studs.

("dimpled" steel studs are acceptable alternative if installed in full conformance with manufacturer's recommendations and of strength equivalent to 20 gauge conventional studs)

TYPES OF GYPSUM BOARD:

Thickness: 5/8" unless otherwise specified.

End of Section



09510

Acoustical Ceilings

CONTENTS

A. [Summary](#)

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

A. Summary

This section contains general design criteria for acoustical ceilings.

Yale School of Medicine

GRID/TILE:

At Corridors, Offices, Conference Rooms & Labs:

Armstrong Ultima tegular fine texture 2x2 high recycled content (1911 HRC) with 15"/16" grid.

General: No concealed spline systems are to be used, anywhere.

At Wet Locations: Preferred tile – Armstrong #605 Travertine Ceramaguard.

End of Section



09650

Resilient Flooring

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

CONTENTS

A. [Summary](#)

A. Summary

This section contains general design criteria for resilient flooring.

Yale School of Medicine

Materials

RUBBER TILE

Manufacturer: Nora Rubber Flooring

Product: Norament 925 Grano

Color: 1238 Basalt

COMPOSITION TILE

12" x 12" (VCT is no longer to be used at YSM unless approved by PM for special situations such as matching an existing condition)

Manufacturer: American Biltrite

Product: Estrie

Pattern: Viera

Neutral field colors and accents:

Light (white): ALL-615 Cotton Tails

Medium (light gray): ALL-603 Granite Falls

Dark (dark gray): ALL-633 Polished Pewter

Accent colors:

At discretion of the designer, from entire Viera color collection. Color(s) and pattern(s) to be reviewed and approved for each project.



Please note: for future flexibility (bench reconfiguration/removal), composition tile in laboratories shall not be laid out using bench locations to frame floor patterns, rather the lab flooring shall be all neutral field colors with color accents only near the perimeter of the space or shall be a continuous, undifferentiated pattern unrelated to bench locations. In addition, composition tile shall be continuous under all casework.

FILLED VINYL SHEET:

Limited to specific programmatic space, such as cold rooms and operating rooms; to be approved by Project Manager.

EXTRA STOCK:

No specific attic stock is desired or required. Storing extra materials is at the discretion of the Facilities Project manager.

Floor Finish

Floors must be completely stripped, including all corners and edges, to remove all existing finish and soil before the new finish is applied

Recommended stripping technique and equipment are as follows: Spread stripper with a designated stripper mop and let solution dwell 3 to 5 minutes. Do not let the stripper dry. For large unrestricted areas, use a 20" diameter, corded scrubbing machine with a 3M system Black pad (or equivalent). For tight spots, use a 3M system Doodle Bug (or equivalent) and a scraper. Pick-up the slurry using a wet vacuum. After slurry pick-up, rinse the floor twice with a clean rinse mop using clean, clear water. Do not mix clean mop and stripper mop.

Four (4) coats of new floor finish will be applied as follows: Floor finish shall be applied with a new, synthetic finish mop, using SC Johnson, Time Saver. Apply Two (2) medium coats of floor finish, allowing sufficient drying time between coats (per manufacturer's recommendations). Wait 1-2 hours. Burnish the floor area using an ultra-high speed burnishing machine. Apply Two (2) more medium coats of finish, allowing sufficient drying time between coats.

End of Section



09670

Wall Finishes

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

CONTENTS

A. [Summary](#)

A. Summary

This section contains general design criteria for wall finishes.

Yale School of Medicine

Materials

Linoleum Sheet Wainscoting

Provide Forbo Marmoleum Linoleum Sheet Flooring manufactured by Forbo in color selected by architect from the range currently available from Forbo 78" wide wide x 105 feet long, having a nominal total thickness of 0.080in. (2.0mm). The wear surface shall consist of a homogeneous mixture of linoleum cement (linseed oil, natural tree resins, drying oil catalysts), wood flour, cork flour, color pigments and filler calendared onto a jute fabric backing. Colors and pattern detail shall be dispersed throughout the thickness of the wear layer.

End of Section



09680

Carpet

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

CONTENTS

- B. [Summary](#)
- C. [System Design and Performance Requirements](#)
- D. [Submittals](#)
- E. [Product Standards](#)
- F. [Construction](#)
- G. [Mounting](#)
- H. [Extra Materials](#)
- I. [Quality Control](#)
- J. [Warranty](#)
- K. [Carpet Types](#)

A. Summary

This section contains general design criteria for carpet.

B. System Design and Performance Requirements

1. Provide carpet material, including roll goods and modular tiles, intended for use in commercial and public spaces. Construction, accessibility, fire–life safety ratings, static control, and appearance must be appropriate for commercial and public spaces.
2. Provide a detached, synthetic rubber or urethane carpet cushion that meets applicable federal standards.
3. Cradle to cradle carpet products, which carry an environmental guarantee to reclaim and recycle the product at the end of its use, are preferred.

C. Submittals

Contractor must submit samples, product data, and shop drawings for each carpet type to be used. Also, the contractor must submit manufacturers' recommended maintenance data at project closeout.

D. Product Standards

1. Products must conform to the following standards.
 - Carpet and Rug Institute (CRI) 104-1996 – Standard for Installation Specification of Commercial Carpet.
 - CRI – Carpet Installation Guidelines for Indoor Air Quality.
2. Carpet materials must meet or exceed the performance criteria in Table 1.



Table 1. Carpet Material Performance Criteria

Performance Characteristic	Performance Criteria
Flammability	Pass the methaenamine pill test per CPSC, Part 1630.
Flame Spread	Pass critical radiant flux limits, Class I; NBS minimum of 0.455 watts/sq cm per NFPA 258/ASTM E648.
Smoke Density	Pass the smoke density test with a specific optical density (corrected) of no greater than 450, tested in accordance with NFPA.
Dry Breaking Strength	Not less than 110 lbs per ASTM D2646.
Wear	Must not exceed 10% of the pile face fiber, by weight, for 10 years.
Edge Ravel	Properly installed, with no edge ravel for 10 years under normal use.
Static Resistance	Per NFPA 99 in healthcare facilities
Static Generation	Less than 3.5 kV for 10 years, per AARCC-134.
Tuft Bind	Greater than 15 lbs for 10 years, per ASTM D-1335.
Backing Integrity	No de-lamination for 10 years.
Color Fastness	No change in color from exposure to light, per AATCC 16E. No color change due to atmospheric contamination, including ozone and/or oxides of nitrogen per AATCC164 and AATCC 129. No stain by crocking for 10 years, per AATCC165.
Microbial Growth Resistance	Must meet AATCC174, Parts I, II, and III standards for inhibiting bacteria and fungus. Lifetime warranted.
Soil and Stain Resistance	No apparent stains for 10 years, per AATCC 6, AATCC 123 and AATCC 175.



E. Construction

Carpet construction must conform to the standards in Table 2.

Table 2. Carpet Construction Standards

Construction Feature	Construction Standard
Face Construction	Tufted, textured loop pile or tip-sheared loop, woven or Symtex
Face Fiber	100% nylon, type 6 or type 6.6
Dyeing Method	Solution dyed or Lee's Duracolor. Each type, pattern, style and color must be on one dye lot with roll sequence integrity.
Primary Backing	Woven polypropylene
Secondary Backing	Powerbond RS, iLoc MB, Unibond, Thermobond, Unitary, Unitary/Action-Bac, Surelock, or equivalent
Gauge	1/8, 1/10, 1/12, 1/13, or 5/64, per ASTM D5793
Density	Minimum 6,000 ounces per cubic yard, per ASTM D 418
Weight Density	Minimum 188,000, per ASTM D418
Pile Height	0.187" average maximum
Pile Thickness	0.150" averages minimum
Yarn Weight	Minimum 26 oz/sq yd, per ASTM D5848
Total Weight	Minimum 60 oz/sq yd
Roll Goods	Available in 12" and 6' widths
Indoor Air Quality Certification	Registration per CRI Green Label Program

F. Mounting

- Tackless—use slab rubber or virgin urethane.
- Direct glue down—use waterproof, strippable adhesive.
- Carpet tiles must be free-laid.
- Terminations—rubber or vinyl terminations or reducers. Do not use anodized aluminum.

G. Extra Materials

Attic stock or extra material is not required. If space is available for storage attic stock may be retained at the discretion of the project manager. It must be in full-width rolls or tiles, and be packaged properly for storage.



H. Quality Control

The carpet installer must be an experienced installer with at least five years experience installing carpet of this quality.

I. Warranty

The carpet manufacturer must provide a signed, written warranty agreeing to replace carpet that does not comply with requirements or that fails within the specified warranty period. The warranty does not include deterioration or failure of carpet due to unusual traffic, substrate failure, vandalism, or abuse. The warranty must cover the following performance criteria for the specified time periods:

- Wear, tuft-bind, edge ravel, zippering, de-lamination, dimensional stability, and soil and stain resistance—10 years minimum
- U/V protection—10 years
- Color fastness (color change due to atmospheric contamination)—5 years
- Microbial growth resistance (where specified) and static resistance—lifetime
- Spike-proof products (where specified)—5 years minimum.

J. Carpet Types

Table 3 is a guide for carpet type by location.

Table 3. Carpet Type by Location

Location	Carpet Type
Head of College's, Dean's, Fellow's or other non-student residential quarters.	Can be residential. Tackless, free lay, or rugs are acceptable. Commercial carpet is not usually selected for these premises.
Student residence halls	Carpet is not recommended.
Office spaces	Tufted or textured loop is recommended, especially if the floor is concrete. Minimum weight should be 26 oz, with an enhancer backing. Recommended tweed pattern, not solid colors.
Waiting areas with light traffic	May use carpet without an enhancer backing if weight is 30 oz.
Public hallways, and other	Commercial broadloom
Dining halls	Carpet is not recommended.
Libraries, seminar, some offices, reading rooms	Carpet tiles. Rigid polymer backing. Minimum weight: 20 oz.

End of Section



09900

Paint

This document provides design standards only, and is not intended for use, in whole or in part, as a specification. Do not copy this information verbatim in specifications or in notes on drawings. Refer questions and comments regarding the content and use of this document to the Yale University Project Manager.

CONTENTS

- A. [Summary](#)
- B. [Submittals](#)
- C. [Product Standards](#)
- D. [Manufacturers](#)
- E. [Systems](#)
- F. [Extra Materials](#)
- G. [Quality Control](#)

A. Summary

This section contains general design criteria for paint.

B. Submittals

The contractor must submit product data, the manufacturer's application instructions, and two 6"x6" samples, in the color and surface finish, for each paint type specified on the project.

C. Product Standards

Products must conform to the following standards:

- ASTM D16 – Static Definitions of Terms Relating to Paint, Varnish, Lacquer and Related Products.
- ASTM D2016 – Standard Test Method for Moisture Content of Wood



D. Manufacturers

Subject to compliance with the design requirements, provide products by one of the following manufacturers.

1. Interior Paint

- California Paints “Verde” Premium 100% acrylic latex, low VOC
- Benjamin Moore "Regal" latex, zero VOC
- Sherwin Williams "Harmony" latex, zero VOC

2. Exterior Paint

- Best grade, first-line standard products by California Paints, Benjamin Moore, and Sherwin Williams

3. High-Performance Coatings

- Polymyx or an approved equivalent

4. Metals

- Tnemec, or an approved equivalent

E. Exterior Paint Systems

Exterior paint systems must conform to the standards in Table 1.

Table 1. Exterior Paint Systems

Surface	Paint Type and Application
Concrete, Stucco, and Masonry	Acrylic latex, 2 coats
Concrete Masonry Units	Block filler; acrylic latex, 2 coats
Wood for Opaque Finish	Alkyd primer; alkyd enamel, 2 coats
Wood for Semi-Transparent Finish	Semi-transparent stain, 2 coats
Ferrous Metal	Zinc chromate primer; alkyd enamel, 2 coats
Ferrous Metal (High-Performance)	Zinc rich primer, epoxy, 1 coat; catalyzed urethane, 1 coat
Galvanized Metal	Galvanized metal primer; alkyd enamel, 2 coats
Galvanized Metal (High-Performance)	Epoxy primer; catalyzed urethane, 1 coat



E. Interior Paint Systems

Interior paint systems must conform to the standards in Table 2.

Table 2. Interior Paint Systems

Surface	Paint Type and Application
Drywall and Plaster	Latex primer; acrylic latex (eggshell), 2 coats
Drywall and Plaster (High-Performance)	Latex primer; polychromatic vinyl copolymer; polomyx or approved equivalent
Drywall and Plaster (Heavy Duty)	Latex primer; water-based epoxy, 2 coats
Wood for Opaque Finish	Alkyd enamel undercoat; alkyd enamel, 2 coats
Wood for Transparent Finish	Oil stain; sanding sealer; alkyd varnish, 2 coats
Ferrous Metal	Alkyd metal primer; alkyd enamel, 2 coats
Ferrous Metal (High-Performance)	Epoxy primer; catalyzed urethane, 2 coats

F. Extra Materials

Provide a 1-gal container of each color and surface finish to Yale University.

G. Quality Control

The product manufacturer must be a company specializing in manufacturing quality paint and finish products, with at least five years experience. The product applicator must be a company specializing in commercial painting and finishing, with at least five years experience.

End of Section