

GYPSUM BOARD

PART 1 - GENERAL

SECTION INCLUDES

- A. Standard Gypsum Board
- B. Mold and Moisture Resistant Gypsum Board

LOCATIONS

- A. Use Standard Gypsum Board on fur downs and walls except where specifically noted otherwise.
- B. Use Mold and Moisture Resistant Gypsum Board on walls in bathrooms, janitor closet, around sinks, in sprinkler closet, and in lab.
- C. Use Acoustical Gypsum Board inside the Exam Rooms.

PART 2 - PRODUCTS

MANUFACTURER / PRODUCTS

- A. Basis of Design: Products of National Gypsum Company.

STANDARD GYPSUM BOARD

- A. Basis of Design: Gold Bond® brand Gypsum Board.
- B. Panel Physical Characteristics
 - 1. Core: Regular
 - 2. Surface Paper: 100% recycled content paper on front, back and long edges
 - 3. Long Edges: Tapered
 - 4. Overall thickness: 5/8
 - 5. Panel complies with requirements of ASTM C 1396 Standard Specification for Gypsum Board.

MOLD AND MOISTURE RESISTANT GYPSUM BOARD

- A. Basis of Design: Gold Bond® brand XP Gypsum Board
- B. Panel Physical Characteristics
 - 1. Core: Mold and moisture resistant gypsum core.
 - 2. Surface paper: 100% recycled content moisture/mold/mildew resistant paper on front, back, and long edges.
 - 3. Long Edges: Tapered
 - 4. Overall thickness: 5/8 inch
 - 5. Panel complies with requirements of ASTM C 1396 Standard Specification for Gypsum Board.

ACOUSTICAL GYPSUM BOARD

- A. Basis of Design: Gold Bond SoundBreak XP Gypsum Board
- B. Panel Physical Characteristics
 - 1. Core:
 - a. Inner Layer: Viscoplastic damping polymer
 - b. Outer Layer: Enhanced, high density mold-resistant gypsum board
 - 2. Long Edges: Tapered
 - 3. Overall Thickness: 5/8"

ACCESSORIES

- A. Joint Treatment
 - 1. Tape: 2-1/16in. wide paper reinforcing tape (ProForm brand Joint Tape)
 - 2. Compound: Drying type pre-mixed vinyl base compound (ProForm brand All Purpose Joint Compound, Regular grade and machine grade, ProForm brand XP Joint Compound, ProForm brand Multi-Use Joint Compound, ProForm b brand Lite Joint Compound, and ProForm brand Ultra Joint Compound.

PART 3 - EXECUTION

INSTALLATION, GYPSUM BOARD

- A. Install in accordance with manufacturer recommendations.
- B. Install steel framing to comply with ASTM C 754 and with ASTM C 840 requirements that apply to framing installation.
- C. Install and finish gypsum panels to comply with ASTM C 840 and CA-216.
- D. Single-Layer Fastening Methods: Fasten gypsum panels to supports with screws.
- E. Finishing Gypsum Board Assemblies: Level 4 finish, unless otherwise indicated.
- F. Screw fasten all metal framing and gypsum wall boards.

END OF SECTION

CARPET TILE

PART 1 GENERAL

1.1 Description of Work

- .1 Provide and install all modular carpet and installation work as required by contract documents and their specifications.

1.2 Quality Assurance

- .1 Manufacturer -
 - .1 The carpet manufacturer shall have no less than fifteen years of production experience with modular carpet similar to type specified.
 - .2 Commitment to quality - Carpet manufacturer shall provide verification of registration to the ISO 9001/9002 Quality Management System.
 - .3 Carpet manufacturer shall provide verification of registration in the ISO 14001 Environmental Management System.
 - .4 Commitment to sustainability - carpet manufacturer shall demonstrate through programs of source reduction, recycling, reuse, water conservation and conservation of raw material usage its commitment to sustainability
 - .5 Response to RFQ shall be accompanied by a letter confirming compliance with listed performance specifications signed off by an Officer of the Company.
 - .6 Manufacturer shall make available a list of qualified minority, disabled, women and veteran owned carpet dealers capable of installation per manufacturer's installation instructions and provide contact information for each name supplied.
 - .7 All products offered by the manufacturer shall be "standard running line" products and shall be available with no minimum order (single box availability).
 - .8 Manufacturer shall guarantee availability of recycled content product.
 - .9 The product warranty required herein shall be provided directly by the carpet manufacturer.

1.3 Installation Provider -

- .1 The installation provider shall be directly responsible for the quality of the completed floorcovering installation, including the quality of both the materials and labor used in the installation.
- .2 The installation provider shall directly warrant to the end use all products, materials and services related to the floorcovering installation (including any floorcovering(s), or other products or materials used in the installation) meeting specifications set forth herein.
- .3 The installation provider shall have successful carpet installation experience on work similar to the work of this Section.

1.4 Submittals - Please submit each of the following with your proposal (unless otherwise noted):

- .1 Manufacturer's Data - Two (2) copies of carpet manufacturer's construction specifications, performance specification, environmental performance and installation instructions for carpet and related items specified.
- .2 Fiber Verification - Certification from the fiber producer verifying use of premium, type 6 fiber with post consumer recycled content for the submitted carpet product. (Premium fibers are identified as Invista, Universal and Aquafil).
- .3 Fibers extruded by carpet mills will be considered "non-premium" for purposes of this specification.
- .4 All applicable product warranties provided by manufacturer.
- .5 Installation provider's proof of insurance, copy of contractor's license, and worker's compensation certificate.
- .6 Five (5) current project references for installation provider, with scope, date, and customer contact with phone number in compliance letter.
- .7 Samples - Customary (standard) size carpet samples of each type of carpet, in each specified pattern, color, and construction.
- .8 Any alternatives to specified product(s) or approved manufacturers, to be considered, shall be submitted for approval at least ten (10) working days prior to bid or proposal to be considered.
- .9 Maintenance Instructions - Two (2) copies of the manufacturer's carpet maintenance instructions.

1.5 Warranty

- .1 Provide the following written warranties by carpet manufacturer for a period of not less than 15 years:
 - .1 Wear - Surface fiber wear shall not be more than 10% by weight in 10 years. (Note: Wear warranty shall not require use of chair pads.)
 - .2 Static - Static generation shall be less than 3.0 kV at 70° F, and 20% RH.
 - .3 No delamination
 - .4 No edge ravel
 - .5 No dimensional instability (i.e., shrinkage, swelling and blooming) which adversely affect the ability of the tile to lie flat
 - .6 Mergability* - Carpet that is of the same pile and colorway, but from different dyelots and/or manufacturing dates shall be mergeable and interchangeable, both at initial installation and at later selective replacement, to create a continuous carpeted surface with no tile appearing out of place.
 - .7 Submit manufacturer's National Voluntary Laboratory Accreditation Program (NVLAP) certified test results to show that carpet meets or exceeds product performance specification criteria for carpet meeting requirements under Section 2.1 hereof.
 - .8 Installation provider shall warrant all installation services will be free from defects in workmanship for a period of at least one (1) year following their completion, and that in the event of defective services, the installation provider will re-perform the effected services and, as necessary, supply new products of the same or similar grade sufficient to repair or replace products adversely affected.

CARPET TILE

PART 2 PRODUCTS

2.1 Structured Back Carpet Performance Standards. Carpet shall meet the following performance standards: (World Woven WWB60 (WW), French Seams (FS), and Stitch In Time (SIT))

- 0.1 Carpet Flammability
 - .1 Pill Test (ASTM D2859 or CPSC FF-1-70) Passes
 - .2 Radiant Panel Test (ASTM E648) ≥ 0.45 watts/cm², Class 1
- 0.2 Smoke Density (ASTM E662) ≤ 450 Flaming Mode
- 0.3 Dimensional Stability (Aachen Method Din 54318) $\leq 0.1\%$ change
- 0.4 Static Generation at 70° F (AATCC 134 w/ neolite) ≤ 3.0 kV at 20% R.H.
- 0.5 Lightfastness (AATCC 16E) ≥ 4.0 after 60 hours
- 0.6 Gas Fade (AATCC 23) 4
- 0.7 Ozone Fade (AATCC 109) 4
- 0.8.1 Antimicrobial (ASTM E2471-05)

The carpet primary backing should display a minimum performance rating of "CI" (complete inhibition) or "PI" high (partial inhibition high < 10% coverage) against the three challenge microorganisms $\geq 90.0\%$ reduction

No growth

- or 0.8.2 Antimicrobial (AATCC 174, Part II)
- 0.9 Fungicidal (AATCC 174, Part III)
- 0.10 Soil/Stain Protection (AATCC 175-1991)

- 0.11 Sustainable Carpet Assessment Standard - NSF/ANSI 140

- 0.12 Carpet & Rug Institute Green Label Plus

Any and all products shall pass Carpet & Rug Institute Green Label Plus. Certification number of the specific product category shall accompany submittal.

2.2a Product Construction Specification. Modular carpet tile shall meet the following construction specifications: The Standard GlasBac

- .1 Yarn System: 100% Invista Type 6,6; Universal Type 6,6 or Nylon Type 6 Nylon with post consumer recycled content. Fiber shall have a cross-section modification ratio no greater than 1.8. (Note: Bidder may propose yarn with a % of recycled material with satisfactory explanation of modification)
- .2 Dye Method: 100% Solution Dyed
- .3 Mergability* - Carpet that is of the same pile and colorway, but from different dyelots and/or manufacturing dates shall be mergeable and interchangeable, both at initial installation and at later selective replacement, to create a continuous carpeted surface with no tile appearing out of place.
- .4 Construction: Tufted
- .5 Patterning: Integrated (no application of printed patterning not allowed)
- .6 Texture: Tufted Level Loop, Tufted Cut Loop (FS), Tufted Pattern Loop (WW)
- .7 Gauge: 5/64 (SIT, FS), 1/10 (WW)
- .8 Height: 0.33 in. (SIT, FS), 0.1 (WW)
- .9 Tuft Form Weight: Maximum: 26 oz/yd (SIT), 21 oz/yd (FS), 17 oz/yd (WW) (lower face weight is preferable if equal or superior performance can be substantiated by Textile Friction Retention Testing)
- .10 Primary Backing: Non-woven polyester. Woven primary backings not allowed.
- .11 Secondary Backing: Fiberglass Reinforced Thermoplastic Composite (polyolefin-free). Secondary backing shall be 100% recyclable at the end of its useful life and shall contain recycled content. Claims of "recyclable" shall meet the Federal Trade Commission Part 268 -- Guides for the Use of Environmental Marketing Claims 260.7(d).
- .12 Soil/Stain Resistance: Application by fiber producer and manufacturer required.
- .13 Preservative Protection: Antifungal and Antibacterial ASTM E 2471-05 Standard Test Method for Use of Seeded Agar for Screening Assessment of Antimicrobial Activity in Carpet. Minimum allowable growth ratings on washed and unwashed carpet samples after 72 hours incubation are complete to partial inhibition (<10% sample coverage) on shaven primary and unshaven fiber layers. Or, if AATCC 174 Parts II & III (AATCC 171 Washed) is used, shall pass both Part II and Part III of AATCC 174 with a minimum of 90% reduction both gram negative and gram positive bacteria and no visible growth against the fungi.
- .14 Non Directional Installation Method: All product shall be designed Ashlar (SIT, WW), Ashlar or Herringbone (FS).

2.4 Minimum Antimicrobial Construction Standards

- .1 Preservative, registered by the EPA for use in carpeting, with broad spectrum efficacy against the growth of bacteria and fungi for a minimum of 15 years, assuming proper maintenance. The preservative ingredient shall meet standards set by the U.S. General Services Administration (GSA) for Antimicrobial Carpet as supported by independent lab testing less than six months old.
- .2 Manufacturer shall provide a stamped EPA technical data sheet for carpet. Preservative shall contain no arsenic, formaldehyde or heavy metals (tin, lead, mercury, silver, copper or zinc), be non-halogenated (no fluorine, chlorine, bromine or iodine) and non-phenolic. Blends of amine neutralized phosphated esters are preferable. Preservative shall have low water solubility (30ppm), a vapor pressure of 12mm Hg at 27° C, and an oral LD50 toxicity rate less than 2.4 grams/kg.
- .3 The preservative shall be incorporated into the primary backing of the product during the manufacturing process, not topically applied to the carpet fibers.
- .4 The preservative treated carpet when new shall pass GSA parameters for treated carpets via AATCC method 174 parts II and III. Initial performance shall be 90% reduction of the microorganisms (Staphylococcus aureus 6538 and Klebsiella pneumoniae 4352) and no fungal growth on either the primary backing or fibers both on washed (AATCC method 174) and non-washed samples. The Standard Test Method for Use of Seeded Agar for Screening Assessment of Antimicrobial Activity in Carpet (ASTM E 2471-05) may be used in lieu of AATCC method 174 parts II and III.
- .5 The preservative treated carpet shall maintain, for the warranted life of the carpet, a minimum of 90% reduction of the microorganisms (Staphylococcus aureus 6538 and Klebsiella pneumoniae 4352) listed in AATCC method 174 part II, provided the carpet is maintained as specified. Additionally, the preservative treated carpet shall maintain a "no macroscopic growth" rating against Aspergillus niger 6275 at the primary backing in accordance with AATCC 174 part III.
- .6 The preservative shall be biodegradable and not toxic to non-target species as found acceptable by the US EPA.
- .7 Efficacy of the preservative should be documented in professional peer reviewed scientific publications.

2.5 Related Materials

- .1 Leveling compound - Latex type as recommended by carpet manufacturer. Shall be compatible with carpet and curing/sealing compound on concrete.
- .2 Glue - Installation shall be free of the application of any wet adhesive.
- .3 Installation connectors - Compounded acrylic adhesive, applied to PET polyester backing with PET polyester release liner (clear 3" x 3" polyester squares with small quantity of a pressure sensitive adhesive applied on one side of the polyester film). The squares connect the carpet modules together to form a stable surface over almost any hard surface. The connectors shall contain no liquid components and shall have "zero" calculated VOC's.
- .4 Carpet edge guard, non-metallic - Extruded or molded heavy duty vinyl or rubber carpet edge guard of size and profile indicated, and with minimum two inch wide anchor flange; colors selected by architect/designer from among standard colors available within the industry.

PART 3 - EXECUTION

3.1 Inspection

- .1 Upon completion of the installation, manufacturer and installer shall verify and certify by means of an affidavit of compliance that work is complete, properly installed and meets all specification herein.
- .2 Preliminary Acceptance - Upon completion of the carpet installation of each floor, such installation shall be inspected by owner, the construction manager and installation provider.

3.2 Installation

General
Comply with manufacturer's instructions and recommendations and in accordance with the Carpet and Rug Institute's Installation Standard. All product shall be installed in accordance with the following adhesive description applies. Adhesive shall be water-based and allow for removal of carpet tile at any time without damage to carpet or substrate. Adhesive shall contain antimicrobial preservative and have "zero" calculated VOC's.

- .1 Comply with manufacturer's instructions for substrate preparation for moisture and alkalinity. In the event the concrete subfloor does not meet moisture or alkalinity requirements as defined in manufacturer's installation instructions and the moisture emission rates are less than 15 pounds and the alkalinity is less than 12.0, a moisture barrier such as MoistureGard 2.0 must be installed. Installation must comply with manufacturer's installation instructions. In the event the moisture vapor emission rate is higher than 15 pounds and the alkalinity is higher than a pH of 10, additional remediation of the slab is required.
- .2 Install carpet under open-bottom obstructions and under removable flanges and finishes, and to alcoves and closets in each space.
- .3 Trim cut out where required. Conceal cut edges with protective edge guards or overlapping flange.
- .4 Run carpet under open-bottom items such as heating convectors, and install tight against walls, urns and columns so the entire floor area is covered with carpet. Cover over all floor line door casings.
- .5 Install edge guards at all openings and doors wherever carpet terminates, unless indicated otherwise.
- .6 Cutting shall be done in accordance with the manufacturer's recommendation, using the tools designed for the carpet being installed.
- .7 Use leveling compound where necessary. Any floor filling or leveling shall have a minimum of 4" of feather.
- .8 Expansion joints - Do not bridge building expansion joints with continuous carpeting.
- .9 Chair Pads shall not be recommended or required within installation instructions

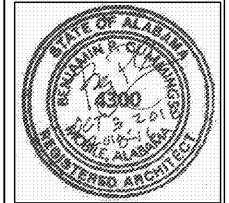
3.3 Cleaning and Protection

- .1 On completion of the installation in each area, all dirt, carpet scraps, etc. shall be removed from the surface of the carpet.
- .2 Remove debris, and sort pieces to be saved from scraps to be repurposed or recycled.
- .3 Construction manager shall protect carpeting against damage during construction.
- .4 At the completion of the work and when directed by the construction manager, vacuum carpet using commercial dual motor vacuum of type recommended by carpet manufacturer. Remove spots and replace carpet where spots cannot be removed. Remove rejected carpeting and replace with new carpeting. Remove any protruding yarns with shears or sharp scissors.

END OF SECTION



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