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DIVISION 9 – FINISHES

09250 GYPSUM BOARD

Paper Backing:

The paper backing is typically 100% recycled and unbleached. No adhesives are used to bond the paper to the gypsum core.

Recycled Content:

Recycled gypsum may be from manufacturing scrap and some post-consumer clean construction waste. Synthetic gypsum (also called flue-gas or recycled) is from post-industrial waste: a by-product from stack scrubbers in coal-fired power plants. Specify the highest recycled or synthetic gypsum content available- 100% is possible. The recycled content varies by manufacturer, and also by the specific plant from the same manufacturer, so it is best to get documentation. Below are products that have recycled and/or synthetic gypsum content:

- G-P Gypsum Board by G-P Gypsum Corporation: The plant in Tacoma WA uses synthetic gypsum. The plants in California and Nevada use varying amounts of recycled gypboard.
- Sheetrock Brand Gypsum Panels by USG Corporation: USG uses synthetic gypsum in all of its standard Sheetrock products. They use more than any other manufacturer nationwide, but it varies by plant (half their plants use 90% plus, the other half blend it with mined gypsum). They also use 100% post-consumer recycled paper on all USG wallboard.
- Fiberock Abuse-Resistant Gypsum Fiber Panels by USG Corporation: Fiberock panels are made from synthetic gypsum, perlite, and recycled newsprint paper, with a total recycled content of 95%. They have no paper backing, and they are stronger, stiffer, denser, and hold nails and screws better than standard gypboard.
- Temple- Inland Gypsum by Temple-Inland Forest Products: Temple-Inland uses synthetic gypsum in over 60% of its wallboard, and the Tennessee and Arkansas plants use 95-99% SCS-certified recycled content. When specifying, keep in mind that the environmental costs of shipping may outweigh a greater recycled content.
- Gold Bond Gypsum Wallboard by National Gypsum Company: National Gypsum Company uses synthetic gypsum for it's Gold Bond wallboard in some of its plants.

Size:

Specify 54" wide sheets for 9' ceilings: G-P Gypsum Board, Temple-Inland Gypsum, or Sheetrock Brand Gypsum panels.

Specify 5/8" thick at walls that are wood frame using efficient framing (studs at 24" centers).

Joint Compound:

Specify No/Low VOC joint compound: Murco Wall products makes a hypo-allergenic powdered (dry mix) all-purpose joint and texture compound that is No-VOC and does not contain any preservatives, asbestos or slow-releasing compounds. It is mixed with tap water. It is available at Environmental Building Supplies in Portland, OR, and listed at \$17.50 for a 25 lb. bag. If you specify a typical ready-mix compound, specify low VOC.

Texture:

Sand is a preferable aggregate to polystyrene but a non-aggregated texture is best. Per the Material Safety Data Sheets, texture finishes have no VOC's and are mostly lime and clay. Texture paints do have VOC's and other compounds that can be toxic.

Drywall Stops:

Drywall stops save framing material (eliminate extra framing at corners), reduce cracking (by allowing movement in floating walls), and leave space for insulation at corners. The Nailer is made from 100% recycled (post consumer and post- industrial) high density polyethylene (HDPE) for residential building and also made of galvanized steel for commercial building. It can be used for wood or steel framing. The only NW distributors are in California, but it can be ordered by phone or online and drop-shipped by UPS. It is economical and easy to use- Habitat for Humanity is one of their biggest clients.

Below is a partial sample specification.

Materials:**Gypsum board panels:**

Size: [4 x 8 sheets] or [54' Wide]. Paper: [100% post-consumer] recycled content. Gypsum: maximum recycled content available or minimum 95% synthetic gypsum, or a combination of both. Water resistant at wet areas. Type X Gypsum Board where required for 1-hour separations. G-P Gypsum Board by G-P Gypsum Corporation, Sheetrock Brand Gypsum Panels by USG Corporation, Temple-inland Gypsum by Temple Inland Forest Products or Gold Bond Gypsum Wallboard by National Gypsum Company.

1. Regular Gypsum Board: 1/2" or 5/8" ASTM C36
2. Water-Resistant Gypsum Board: ASTM C630
3. Fire Rated Board: 5/8" ASTM C36, Type X

Joint compound:

Murco M100 Joint Compound, available at Environmental Building Supplies, Portland, OR (503) 222 3881.

Fasteners:

Drywall screws.

Drywall supports:

galvanized steel or HDPE with high recycled content, as available. The Nailer (800)280-2304 <http://www.thenailer.com>, or Simpson Drywall Stop by Simpson Strong-Tie Connectors.

Joint Tape: Recycled content paper.

Handling:

Protect from moisture and contaminants. Do not store near materials that may off gas harmful volatile organic compounds, such as solvents, etc.

Installation:

Select and layout panels to minimize waste. Maximum deviation: from true plane: 1/8" per 10'. ASTM C840 and GA-216. Metal square trim at all corners. Protect workers, occupants and HVAC systems from gypsum dust.

Texture:

Non- aggregated texture finish: [light orange peel] or [spatter] or [stipple] or [swirl]. Do not use a texture paint. See Section 09900 for paint.

Submittals:

Submit documentation of actual [recycled] [synthetic] [recycled/synthetic] content from manufacturer.

Waste Management:

separate clean waste from other materials. [Return to manufacturer] or [Pulverize and use as soil amendment on site. Coordinate with Architect/landscape Architect] or [Place in designated area for recycling].