



American Gypsum  
3811 Turtle Creek Blvd., #1200  
Dallas, TX 75219  
214-530-5500  
www.americangypsum.com

Technical Information  
1-800-545-6302 ext. 5607

# SmoothRoc<sup>®</sup> Gypsum Wallboard

## DESCRIPTION

SmoothRoc<sup>®</sup> gypsum wallboard has a uniquely tapered and slightly rounded edge to help minimize ridging and beading, but otherwise performs identical to traditional drywall. This unique edge design helps to neutralize the effects of slight gypsum panel or stud misalignments, joint imperfections, and damaged board edges. SmoothRoc gypsum wallboard consists of a fire-resistant gypsum core that is encased in 100% recycled natural-finish paper on the face side and sturdy liner paper on the back side. The face paper is folded around the long edges to reinforce and protect the core, with the ends being square-cut and finished smooth.

SmoothRoc gypsum wallboard is available in: 1/2" panels with a regular core for use in non-fire rated applications and a 5/8" Type X core for use in fire-rated assemblies.

American Gypsum products contain no asbestos and no detectable levels of formaldehyde.

## BASIC USES

SmoothRoc gypsum wallboard is used as a covering material for walls or ceilings in new building construction or renovation work. It is designed for direct attachment by screws, nails or adhesive to wood or metal framing and even existing surfaces.

The SmoothRoc gypsum wallboard edge design compensates for extreme temperature and or humid conditions that cause "ridging" or "beading" and also for joint deformation resulting from framing imperfections. Joints stay smooth because they are pre-filled with a fast setting joint compound, which hardens chemically into an extraordinarily well bonded joint, and shrinkage of the joint is virtually eliminated.

## LIMITATIONS

SmoothRoc gypsum wallboard is intended for interior applications only.

Avoid exposure to temperatures exceeding 125°F (52°C), e.g., located adjacent to wood burning stoves and or heating appliances.

SmoothRoc gypsum wallboard joints must be pre-filled with a fast setting joint compound before applying joint tape to the seams.

Avoid exposure to excessive or continuous moisture before, during and after installation, e.g., swimming pools, saunas or steam rooms. Eliminate any sources of moisture immediately.

SmoothRoc gypsum wallboard gypsum panels are a nonstructural product and should not be used as a nailing base.

Spacing of wall or ceiling framing should not exceed the recommendations below:

MAXIMUM SPACING OF FRAMING (WOOD OR METAL)			
	Single Ply Thickness	Application	Maximum Framing O/C Spacing
*Ceilings	1/2" or 5/8" 1/2" or 5/8"	Parallel to Framing Perpendicular to Framing	16"o/c 24"o/c
Walls	1/2" or 5/8"	Parallel or Perpendicular to Framing	16"o/c 24"o/c

\*For Ceiling Applications - When using a hand or water-based texture for decoration, 1/2" SmoothRoc gypsum wallboard is to be installed perpendicular to framing spaced no more than 16"o/c. For framing spaced more than 16"o/c, American Gypsum's 1/2" Ceiling Board shall be specified.

To prevent noticeable sag in ceilings, the weight of overlaid unsupported insulation should not exceed the following recommendations:

FRAMING	PRODUCT	PSF (LBS. PER S/F) OF INSULATION
24"o/c	1/2" SmoothRoc	1.3(6.3 kg/M <sup>2</sup> )
16"o/c	1/2" SmoothRoc	2.2 (10.7 kg/M <sup>2</sup> )
24"o/c	5/8" SmoothRoc	2.2 (10.7 kg/M <sup>2</sup> )

Insulation blankets or batts should be recessed, with flanges attached or friction fitted to the sides of the studs or joists.

## STORAGE & HANDLING

Gypsum board does not generate or support the growth of mold when it is properly transported, stored, handled, installed, and maintained. However, mold spores are present everywhere and when conditions are favorable; mold can grow on practically any surface. GYPSUM BOARD MUST BE KEPT DRY to prevent the growth of mold.

SMOOTHROC<sup>®</sup>

AMERICAN GYPSUM

1/2" x 4' x 12'



1/2" x 4' x 12'

AMERICAN GYPSUM

Panel SmoothRoc

**STORAGE & HANDLING**

Gypsum board must be stored in an area that protects it from adverse weather conditions, condensation, and other forms of moisture. Job site conditions that can expose gypsum board to water or moisture must be avoided.

Gypsum board must be protected during transit with a weather-tight cover in good condition. Plastic shipping bags are intended to provide protection during transit only and must be promptly removed upon arrival of the load. Failure to remove the shipping bag can increase the likelihood of developing conditions favorable to the growth of mold.

Gypsum board that has visible mold growth must not be used. For additional information, refer to Gypsum Association publication, "Guidelines for the Prevention of Mold Growth on Gypsum Wallboard" (GA-238-03), which can be found at [www.americangypsum.com](http://www.americangypsum.com) under "Technical Data" - click on Gypsum Association Literature.

Gypsum board must be stored off the ground and under protective cover. Sufficient risers must be used to assure support for the entire length of the wallboard to prevent sagging.

Gypsum board must be delivered to the job site as near to the time it will be used as possible. Individuals delivering gypsum board to jobsites should ensure that it is carried, not dragged, to place of storage/installation to prevent damage to finished edges.

Gypsum board shall always be stacked flat - NEVER on edge or end. Gypsum board stacked on edge or end is unstable and presents a serious hazard should it accidentally topple. Gypsum board should be placed so weight is evenly distributed and the floor is not overloaded.

**GOOD BUSINESS PRACTICES**

**Installation** - The building temperature shall be maintained at not less than 50°F (10°C) for adhesive application of gypsum board, during joint treatment, texturing, and decoration. When a temporary heat source is used the temperature shall not be more than 95°F (35°C) in any given room or area. Adequate and continuous ventilation shall be provided in the working area during the installation and the drying or curing period.

SmoothRoc gypsum wallboard joints must be pre-filled with a fast setting joint compound before applying joint tape to the seams.

The design professional has the ultimate responsibility for location of control joints.

**Decoration** - The design professional, contractor and or owner shall review Gypsum Association's bulletin GA-214, "Recommended Levels of Gypsum Board Finish", in order to specify the proper level of drywall finishing needed to assure the desired results. (GA-214 can be found at [www.americangypsum.com](http://www.americangypsum.com) under "Technical Information" - click on Gypsum Association Literature)

For best painting results, all surfaces, including joint compound, should be clean, dust-free and not glossy. To equalize the porosities between the face paper and joint compound and improve fastener and joint concealment, the surface shall be primed and sealed with a full-bodied drywall primer before texturing or final decoration. The selection of the proper paint to give the specified or desired finished characteristics is the responsibility of the design professional, contractor and or owner.

Gypsum board that is to have a wall covering applied to it should be prepared and primed as described for painting.

**APPLICABLE STANDARDS**

<b>Manufacturing</b>	ASTM C 1396 section 5 (C 36) Federal Specification SS-L-30D Type III (1/2" SmoothRoc) Federal Specification SS-L-30D Type III Grade X(5/8" SmoothRoc Type X)
<b>Installation</b>	ASTM C 840 Gypsum Association GA-216 Gypsum Association GA-214
<b>Surface Burning Characteristics</b>	ASTM E 84 Flame Spread 15 Smoke Developed 0

**PRODUCT DATA****SIZES**

Thickness	Widths	Lengths	Edge Type	UL Type
1/2" (12.7mm)	4' (1219mm)	8' - 14' (2438mm - 4267mm)	Tapered with Round Edge	
1/2" (12.7mm)	54" (1372mm)	8' - 14' (2438mm - 4267mm)	Tapered with Round Edge	
5/8" (15.9mm)	4' (1219mm)	10' - 12' (3048mm - 4267mm)	Tapered with Round Edge	AGX-1, AGX-11
5/8" (15.9mm)	54" (1372mm)	12' (3658mm)	Tapered with Round Edge	AGX-1, AGX-11

Special lengths or edges may be available on special order. Consult your American Gypsum sales representative for details.

<b>Thermal Resistance "R" Value</b>	1/2" = 0.45 5/8" = 0.48
-------------------------------------	----------------------------

**FIRE RESISTANCE RATINGS**

Fire rated assemblies are specified from tests performed by independent laboratories. These designs are made up of specific materials in a precise configuration. When choosing construction designs to meet certain fire resistance requirements, vigilance must be taken to insure that each component of the selected assembly is the one specified in the test and are assembled in accordance with the requirements of the assembly.

**SUBMITTAL APPROVALS**

Job Name:

Contractor:

Date: