

# Matrix Edition: Recommended Levels of Gypsum Board Finish

Cellings & Interior System

Construction Association

### GA-214-M-97

## Introduction

In 1988, as a means of resolving a common problem, four major trade associations concerned with the manufacture, erection, finish, and decoration of gypsum board wall and ceiling systems developed an industrywide, **Recommended Levels of Gypsum Board Finish**. The document was intended to assist specification writers, architects, contractors, and building owners to more precisely describe the finish of walls and ceilings prior to the application of paints and other finishes, to encourage competitive bidding of suitably finished surfaces, and to enhance the appearance of the final decorative treatment and thereby enlist a satisfied client. The original document was updated and revised in 1996.

This document takes the section of the 1996 document that discusses the specific criteria required to achieve individual levels of finish and presents them in a non-text format. The information contained in the document is technically identical to the original; however, it is formatted, solely for appearance purposes, into a matrix or grid simply to improve its readability. The scope, terminology, comments and resources sections are reproduced in their entirety from the original document.

**Scope**. This document describes various levels of finish of gypsum board surfaces prior to the application of specific types of final decoration. The recommended level of finish of gypsum board wall and ceiling surfaces varies with the final decoration to be applied and can also be dependent on their location in a structure and the type of illumination striking the surface. Each recommended level of finish is described with typical applications.

Terminology. The following definitions are applicable to this document.

Accessories: Metal or plastic beads, trim, or moulding used to protect or conceal corners, edges, or abutments of the gypsum board construction.

**Critical Lighting**: Strong sidelighting from windows or surface-mounted light fixtures. *syn* severe lighting. *See "comments" section of this document.* 

Joint Photographing: The shadowing of the finished joint areas through the surface decoration. *syn* telegraphing.

**Drywall Primer:** A paint material specifically formulated to fill the pores and equalize the suction difference between gypsum board surface paper and the compound used on finished joints, angles, fastener heads, and accessories and over skim coatings. *See "comments" section of this document.* 

Skim Coat: A thin coat of joint compound, or a material manufactured especially for this purpose, applied over the entire surface to fill imperfections in the joint work, smooth the paper texture, and provide a uniform surface for decorating. Excess compound is immediately sheared off, leaving a film of skim coating compound completely covering the paper.

Spotting: To cover fastener heads with joint compound.

Texture: A decorative treatment of gypsum board surfaces.

**Texturing:** Regular or irregular patterns typically produced by applying a mixture of joint compound and water, or proprietary texture materials including latex base texture paint, to a gypsum board surface previously coated with drywall primer. *See "comments" section of this document.* 

**Comments.** Critical (Severe) Lighting Areas. Wall and ceiling areas abutting window mullions or skylights, long hallways, or atriums with large surface areas flooded with artificial and/or natural lighting are a few examples of critical lighting areas. Strong sidelighting from windows or surface-mounted light fixtures may reveal even minor surface imperfections. Light striking the surface obliquely, at a very slight angle, greatly exaggerates surface irregularities. If critical lighting cannot be avoided, the effects can be minimized by skim coating the gypsum board surface, by decorating the surface with medium to heavy textures, or by the use of draperies and blinds which soften shadows. In general: gloss, semi-gloss, and enamel finishes highlight surface defects; textures hide minor imperfections.

Manufacturer Recommendations. The recommendations of individual manufacturers of gypsum board, joint tapes and compounds, accessories, drywall primers, wallcoverings, adhesives, texture materials, and paints may vary from what is recommended herein and as such are not a part of this recommended specification.

**Drywall Primer.** Applied as a first coat to the entire prepared gypsum board surface with brush, roller, or spray prior to decoration. Where final appearance is critical, the application of high quality, high solids, drywall primer will minimize most decorating problems.

For finish paints: A good quality, white, latex drywall primer formulated with higher binder solids, applied undiluted, is typically specified for new gypsum board surfaces prior to the application of texture materials and gloss, semi-gloss, and flat latex wall paints.

An alkali and moisture-resistant primer and a tinted enamel undercoat may be required under enamel paints. Consult with the finish paint manufacturer for specific recommendations.

For wallcoverings: White, self-sizing, water base, "universal" (all-purpose) wallcovering primers have recently been introduced into the marketplace for use on new gypsum board surfaces. These products are claimed to minimize damage if wallcoverings are subsequently removed, bind poor latex paint, allow hanging over glossy surfaces and existing vinyls, hide wall colors, and to be water washable.

Texturing. Texture material is applied by brush, roller, spray, or trowel,

or a combination of these tools, depending on the desired result. Textured wall surfaces are normally overpainted with the desired finish; overpainting of textured ceiling surfaces may not be deemed necessary where an adequate amount of material is applied to provide sufficient hiding properties. A drywall primer may not be required under certain proprietary texture materials; consult with the manufacturer of the texture materials for specific recommendations.

Tool Marks and Ridges. A smooth surface may be achieved by lightly sanding or wiping joint compound with a dampened sponge. Care shall be exercised to ensure that the nap of the gypsum board facing paper is not raised during sanding operations. For additional information on the finishing of gypsum board surfaces consult ASTM Standard C 840.

**Resources:** Designers and specifiers are encouraged to consult the following reference documents:

ASTM C 840, Standard Specification for Application and Finishing of Gypsum Board. American Society far Testing and Materials, West Conshohocken, PA.

GA-216, Specifications for the Application and Finishing of Gypsum Board, 1996. Gypsum Association, Washington, D.C.

GA-505, Gypsum Board Terminology, 1991. Gypsum Association, Washington, D.C.

*Master Painters Glossary,* Painting and Decorating Contractors of America, Fairfax, VA.

Contact one of the following associations for additional assistance or copies of this recommended specification:

#### The Association of the Wall and Ceiling Industries—International

803 West Broad Street, Suite 600 Falls Church, Virginia 22046 Telephone: (703) 534-8300 http://www.awci.org

#### Ceilings & Interior Systems Construction Association

1500 Lincoln Highway, Suite 202 St. Charles, Illinois 60174 Telephone: (630) 584-1919 http://www.cisca.org

#### **Gypsum Association**

810 First Street NE, #510 Washington, DC 20002 Telephone: (202) 289-5440

#### Painting and Decorating Contractors of America

3913 Old Lee Highway, Suite 33B Fairfax, Virginia 22030 Telephone: (703) 359-0826 http://www.pdca.com

#### Notice

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# Levels of Gypsum Board Finish Each level of finish is described in italics. In every instance, the minimum level of finish is described.

Level	Joints	<b>Interior Angles</b>	Accessories	Fasteners	Surface
<b>#0</b>	No taping, finishing or accessories required.				
This level of finis	sh may be useful in temporar	y construction or whenever	the final decoration ha	s not been determined.	
<b>#1</b>	Tape set in joint compound.	Tape set in joint compound.			Tool marks and ridges acceptable. Surface free of excess joint compound.
iew. Accessories o as "fire-taping	optional at specifier discreti	on in corridors and other a ting is required for the gyp.	reas with pedestrian traj sum-board assembly, de	ffic. Some degree of soul	l, or in building service corridors and other areas not normally open to public nd and smoke control is provided; in some geographic areas, this level is referre Il be in accordance with reports of fire tests of assemblies that have met
<b>#2</b>	Tape embedded in joint compound and wiped with a joint knife, leaving a thin coat of compound over tape.	Tape embedded in joint compound and wiped with a joint knife, leaving a thin coat of compound over tape.	Shall be covered by one separate coat of joint compound.	Shall be covered by <u>one</u> separate coat of joint compound.	Surface shall be free of excess joint compound. Tool marks and ridges acceptable. Joint compound applied over the body of the tape at the time of tape embedment shall be considered a separate coat of joint compound and shall satisfy the conditions of this level.
Specified where s s not of primary		ng board (ASTM C630) is i	used as a substrate for ti	ile. May also be specified	d in garages, warehouse storage or other similar areas where surface appearanc
<b>#3</b>	Taped as in level #2, then covered with <u>one</u> separate coat of joint compound.	Taped as in level #2, then covered with <u>one</u> separate coat of joint compound.	Shall be covered by <u>two</u> separate coats of joint compound.	Shall be covered by <u>two</u> separate coats of joint compound.	Joint compound shall be smooth and free of tool marks and ridges. Note: It is recommended that the prepared surface be coated with a drywall primer prior to the application of final finishes. See painting and wallcovering specifications.
					before final painting, or where heavy-grade wallcoverings are to be applied ght wallcoverings are specified.
<b>#4</b>	Taped as in level #2, then covered with <u>two</u> separate coats of joint compound.	Taped as in level #2, then covered with <u>one</u> separate coat of joint compound.	Shall be covered by <u>three</u> separate coats of joint compound.	Shall be covered by <u>three</u> separate coats of joint compound.	Joint compound shall be smooth and free of tool marks and ridges. Note: It is recommended that the prepared surface be coated with a drywall primer prior to the application of final finishes. See painting and wallcovering specifications.
Gloss, semi-gloss loints and fasten	and enamel paints are not r	ecommended over this level ealed if the wallcovering m	of finish. The weight, t	exture and sheen level o	s, flat paints applied over light textures tend to reduce joint photographing. If wallcoverings applied over this level of finish should be carefully evaluated. as a gloss finish or any combination of these features is present. Unbacked
*5	Taped as in level #2, then covered with <u>two</u> separate coats of joint compound.	Taped as in level #2, then covered with <u>one</u> separate coat of joint compound.	Shall be covered by <u>three</u> separate coats of joint compound	Shall be covered by <u>three</u> separate coats of joint compound.	A thin skim coat of joint compound, or a material manufactured especially for this purpose, shall be applied to the entire surface. The surface shall be smooth and free of tool marks and ridges. Note: It is recommended that the prepared surface be coated with a drywall primer prior to the application of final finishes. See painting specification.
					where severe lighting conditions occur. This highest-quality finish is the most ing through the final decoration.