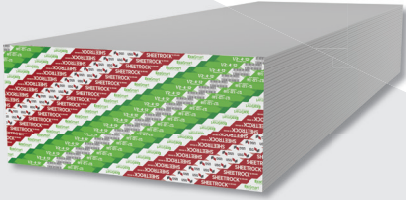**USG Interior Panel & Finishing Solutions**

USG SHEETROCK® BRAND
ECOSMART PANELS

Highly sustainable and ultralightweight 1/2 in. wall and ceiling panels for interior applications

- Up to 49% less global warming potential (GWP)[1]
- Up to 43% less water used in the manufacturing process[1]
- Up to 25% less weight reduces transportation fuel energy by up to 13%[1]
- Up to 99% recycled content (regionally available)
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)
- Meet ASTM C1396 specifications
- International Code Council (ICC) Evaluation Service compliant for ceiling installations, ESR-3365 (pending)

Note:
1. Compared to standard and lightweight 1/2 in. gypsum panels as presented in the Gypsum Association's *1/2 in. Cradle-to-Gate Life Cycle Assessment* with fresh water usage updated to be in accordance with ISO 14046.

DESCRIPTION

USG Sheetrock® Brand EcoSmart Panels represent a revolution in wallboard manufacturing, significantly reducing the need for natural resources and impact on the environment. These third-generation gypsum panels have been formulated to achieve all of the strength and performance characteristics as 1/2 in. USG Sheetrock® Brand UltraLight Panels at a lower environmental impact and greater weight reduction. The panels are also designed to have superior sag resistance, eliminating the need for traditional 1/2 in. sag-resistant ceiling panels. The re-engineered noncombustible gypsum core is encased in 100% recycled face and back papers. The natural finish face paper is folded around the long edges to reinforce and protect the core, and the ends are cut square and even. The long edges of the panels are tapered, allowing joints to be reinforced and concealed with USG Sheetrock® Brand joint treatment systems.

INTENDED FOR

- Non-fire-rated single-layer wall and ceiling applications
- New residential, commercial or repair and remodel construction
- Wood or steel framing
- Parallel or perpendicular installation on ceilings with 24 in. OC framing when water-based texture is applied

LIMITATIONS

1. Avoid exposure to sustained temperatures exceeding 125 °F (52 °C).
2. Avoid exposure to excessive, repetitive or continuous moisture before, during and after installation. Eliminate sources of moisture immediately.
3. The panels are non-load-bearing.
4. Maximum frame spacing for walls and ceilings is 24 in. OC.
5. Must be stored off of the ground and under cover. Sufficient risers must be used to support the entire length of the gypsum panel to prevent sagging.

INTERIOR INSTALLATION, FINISHING AND DECORATING
INSTALLATION

Ceiling Installation, Single-Layer

Application method (long edge position relative to framing)	Frame spacing	Max. weight of insulation support by drywall	Application method if water-based texture is applied
Perpendicular or parallel	24 in. (610 mm)	2.2 psf	Perpendicular or parallel

Notes:
- Installed in accordance with ASTM C840.
- The sag performance for USG Sheetrock® Brand EcoSmart Panels has been independently verified by Progressive Engineering Inc. (PEI) when testing in accordance with ICC-ES AC417, *Acceptance Criteria for 1/2-Inch Sag-Resistant Gypsum Ceiling Board*, and PEI Standard No. 94-9, *Large Scale Ceiling Board Load Test Procedure*. Parallel installation compliance under ICC ESR-3365.

USG
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Fastener Spacing, Single-Layer Over Wood Framing

Fastener type	Location	Maximum spacing
Nails, 1-1/4 in. annular ring 5d drywall nail complying with ASTM C514	Ceilings	7 in. (178 mm)
	Sidewalls	8 in. (203 mm)
Screws, 1-1/4 in. Type W bugle head complying with ASTM C1002	Ceilings	12 in. (305 mm)
	Sidewalls	16 in. (406 mm)
Screws (same as above)	RC-1, ceilings or sidewalls	12 in. (305 mm)
Adhesive[2] with nails or screws (same as above)	Ceilings, long edges perpendicular to framing members	16 in. (406 mm) at ends, one fastener per framing member at edges, one fastener in center of panel
	Sidewalls, long edges perpendicular to framing members	16 in. (406 mm) at ends, one fastener per framing member at edges, one fastener in center of panel
	Sidewalls, long edges parallel to framing members	16 in. (406 mm) along edges, one fastener per framing member at ends, one fastener in center of panel

Note:

2. In order to minimize or eliminate the occurrence of raised protrusions or screw buttons, USG recommends that the installer confirm that the adhesive has fully cured to ensure the adhesive has stopped shrinking and stabilized prior to the finishing of wallboard.

For high-quality finishing results, USG recommends USG Sheetrock® Brand finishing products.

Painting products and systems should be used that comply with recommendations and requirements in Appendices of ASTM C840. For priming and decorating with paint, texture or wall covering, follow manufacturer's directions for materials used. Gypsum Association's *Recommended Specification for Levels of Gypsum Board Finish* (GA-214) should be referred to in order to determine the level of finishing needed to ensure a surface properly prepared to accept the final decoration.

All surfaces, including applied joint compound, must be thoroughly dry, dust-free and not glossy. Prime with USG Sheetrock® Brand First Coat™ Primer or with an undiluted, interior latex flat paint with high-solids content. Allow to dry before decorating.

To improve fastener concealment where gypsum panel walls and ceilings will be subjected to severe artificial or natural side lighting, or will be decorated with a gloss paint (eggshell, semigloss or gloss), the gypsum panel should be skim coated with joint compound. This equalizes suction and texture differences between the drywall face paper and the finished joint compound before painting. As an alternative to skim coating, or when a Level 5 finish is required, use USG Sheetrock® Brand Tuff-Hide™ Primer-Surfacer.

For more information, refer to USG literature *Finishing & Decorating Gypsum Panels White Paper* (J2010).

Thickness	1/2 in. (12.7 mm)
Lengths	8-16 ft. (2438-4877 mm)
Width[3]	4 ft. (1219 mm)
Weight[4], nominal	1.1 lb./sq. ft. (5.4 kg/sq. m.)
Edges	Tapered
Packaging	Two panels per bundle
Surface-burning characteristics per ASTM E84	Flame spread: 10 Smoke development: 0 Classification: Class A

Notes:

3. Other sizes available by special order. Check with your local USG representative for availability.

4. Represents approximate weight for design and shipping purposes. For specific product weight in your area, contact your local USG representative or call the Customer Service Center at 800 950-3839.

COMPLIANCE

- Meet or exceed ASTM C1396 specifications for 1/2 in. gypsum wallboard and 1/2 in. gypsum ceiling board
- Comply with the requirements of the International Building Code® (IBC®) and International Residential Code (IRC) as both regular wallboard and ceiling board
- Achieved GREENGUARD Gold Certification and qualifies as a low VOC emitting material (meets CA 01350)
- Compliant for ceiling installations, ICC ESR-3365 (pending)

SUBMITTAL APPROVALS

Job Name	
Contractor	Date

PRODUCT INFORMATION
See usg.com for the most up-to-date product information.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.

CAUTION
Dust may cause irritation to eyes, skin, nose, throat and upper respiratory tract. Cut and trim with a utility knife or hand saw to minimize dust levels. Power tools must be equipped with a dust collection system. Wear eye, skin and respiratory protection if necessary. If eye contact occurs, flush thoroughly with water for 15 minutes. If irritation persists, call a physician. Do not swallow. If swallowed, call a physician.
For more information call Product Safety: 800 507-8899 or see the SDS at usg.com.
KEEP OUT OF REACH OF CHILDREN

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SAFETY FIRST!
Follow good safety and industrial hygiene practices during handling and installation of all products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read Safety Data Sheets and related literature on products before specification and/or installation.

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