# IMPERIAL<sup>®</sup> Gypsum Base (Regular Core and Foil Back)

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IMPERIAL		<ul> <li>A large size, rigid base for economical application of gypsum veneer plasters</li> <li>Special gypsum core and multi-layered laminated face paper to control water absorption, provide maximum plaster bor and resist sag.</li> <li>Economical construction. Large-size panels reduce handling.</li> <li>Panels are designed for direct or resilient attachment to wood or steel framing.</li> <li>IMPERIAL Brand Bases comply with ASTM C588 and have gypsum cores UL-Classified as non-combustible per ASTM E136</li> <li>Foil-Back IMPERIAL Brand Gypsum Base has bright aluminum foil backing which meets HUD requirements for a vapor retarded</li> </ul>							
Description	8' to j pla adu res rot IMF IMF Sp	to 14' lengths, provide the qua ister bond and i ds lateral stabili sistance to sour or normal mois IMPERIAL Brand F PERIAL® Brand E ecial Basecoat Foil-back pane	the panels are large enough to lities desirable for veneer plaste resists plaster slide. The panels ty to the assembly. Also, gypsun d transmission. Resilient attach sture; they will not attract vermir Gypsum Base is designed to be inish Plaster—Special White, Di Basecoat Plaster, DIAMOND® Brar Plaster. Is are intended for use in exterior	be installed I r application provide a rigin base partiti ment further I. e used with the AMOND® Bra d Veneer Ba	er systems. Available in 1/2" and 5/8" thicknesses, 4' wide b ike drywall panels. The distinctive blue face paper is designe s, that is, it controls water absorption, provides for a strong d base that resists sag. When securely attached, gypsum ba ons faced with gypsum plaster on both sides have high improves ratings. These panels are not affected by decay, dr ne following plaster products: IMPERIAL® Brand Finish Plaster, nd Interior Finish Plaster, Norfolk Special Veneer Plaster, secoat Plaster, Custom Veneer Basecoat Plaster and USG® bright aluminum foil backing has a permeability of 0.06 ssible under HUD requirements for a vapor retarder.				
imitations	<ol> <li>IMPERIAL Brand Gypsum Bases should only be used with veneer plaster products.</li> <li>IMPERIAL Brand Gypsum Bases should not be used in areas exposed to excessive moisture for extended periods or as a bas for adhesive application of ceramic tile (SHEETROCK<sup>®</sup> Brand Gypsum Panels, Water-Resistant, or DUROCK<sup>®</sup> Brand Cement Board are recommended for this use).</li> <li>Do not apply DIAMOND Interior Finish Plaster to IMPERIAL Brand Gypsum Base that has faded from exposure to sunlight. Whe fading has occurred, treat surface with either USG<sup>™</sup> Plaster Bonder or a spray-applied solution of USG<sup>™</sup> Accelerator-Alum Catalyst before application of finish.</li> <li>Gypsum base surfaces should be isolated with control joints or other means where: (a) Partition or furring abuts a structural element (except floor) or dissimilar wall or ceiling; (b) Ceiling abuts a structural element, dissimilar wall or partition, or other vertical penetration; (c) Construction changes within the plane of the partition or ceiling; (d) Partitions or furring run exceeds 30'; (e) Ceiling dimensions exceed 30' without relief, or 50' with relief; (f) Expansion or control joints occur in the base exterior wall. Ceiling-height door frames may be used as control joints, as may door frames that are less than ceiling height if control joints extend to ceiling from both corners.</li> <li>Do not exceed the maximum spacing of framing members shown in the table below.</li> </ol>								
	M	Maximum spacing of framing members for new construction:							
			base and finish assembly	framing s					
	<b>in</b> 1/		IMPERIAL Brand Gypsum Base	in.	mm				
	17	2 12.1	one layer, 1-coat system	16	406.4				
	····		one layer, 2-coat system	16 or 24(2)	406.4 or 609.6 <sup>(2)</sup>				
	···		two layer, 1 & 2-coat system	24	609.6				
	5/	8 15.9	IMPERIAL Brand Gypsum Base one layer, 1-coat system	16 or 24(2)	406.4 or 609.6 <sup>(2)</sup>				
			one layer, 2-coat system	24(2)	609.6 <sup>(2)</sup>				
			two layer, 1 & 2-coat system	24	609.6				
	ceil (2)	ings.	pacing requires joint treatment with SH		ferred for maximum strength; parallel application is not recommended for d Joint Tape and SHEETROCK® Brand Setting-Type Joint Compound				



Directions	Preparation	<ul> <li>Protect the product from moisture during storage and on the job. In cold weather, heat the interior of the building to a minimum of 55 °F (13 °C) for an adequate period before the application of plaster, while basecoat and finish is being applied, and until the finish is dry. Air circulation should be kept at a minimum level during this period. Warning: Store all IMPERIAL Brand Gypsum Base flat. Panels are heavy and can fall over, causing serious injury or death. Do not move unless authorized. Under normal working conditions, joints of veneer plaster systems may be treated by applying IMPERIAL Brand Type P (pressure-sensitive) or Type S (staple) to the joints and then applying the veneer plaster basecoat or finish to preset the tape. However, there are a number of special situations that require the use of a setting-type joint treatment system.</li> <li>High building temperature, low humidity or excessive evaporation that creates "rapid drying" conditions.</li> <li>Metal framing is specified.</li> <li>Certain wood-framing applications with spacing of 24" o.c. (see Maximum Spacing table above). Under any of these conditions, use SHEETROCK Brand Joint tape and SHEETROCK Brand Setting-Type (DURABOND) or Lightweight Setting-Type (EASY SAND) Joint Compound to treat all joints and internal angles. Allow the joint treatment to set and dry thoroughly before plaster application.</li> </ul>
Installation		<ul> <li>IMPERIAL Brand Gypsum Base may be installed either perpendicular (preferred) or parallel to the framing. All ends and edges should be placed over framing members except where edge joints are perpendicular to framing. Use maximum practical lengths to minimize end joints. Install gypsum base first on ceilings and then on walls. Over steel studs, arrange direction of installation so that the lead edge of the base is attached to the open side of the stud flange first. Bring base panels into contact with each other, but do not force into place. Fit abutting ends and edges neatly, stagger end joints; arrange joints on opposite sides of partition so they occur on different studs.</li> <li>Begin driving fasteners in center of panel and work toward ends and edges, holding gypsum base in firm contact with framing. Space fasteners as shown in table and not less than 3/8" from edges and ends of panel. Drive fastener heads flush with surface without breaking the face paper. If gypsum base appears to be loose from framing, install additional fasteners. Float vertical and horizontal interior corners by placing fasteners 8" out from the corner. Where framing is parallel with the corner, attach one panel to corner framing and float the abutting panel. Cut and fit gypsum base neatly around pipes and other openings. Remove loose face paper around cuts and use quick-setting plaster to close openings.</li> <li>Control Joints.—Apply control joints, where required, over the face of the gypsum base. Cut to required lengths with fine-toothed hack saw. Cut end joints square, align and butt together slightly gapped. Attach the control joint to gypsum base temporarily with 9/16" rosin-coated staples spaced 12" o.c. along each flange. Complete the installation of the control joint with fasteners (nails or screws) driven through the control joint flange into the framing member where metal trim is to be installed. Leave a space 3/8" to 1/2" wide between edge of base and face of jamb or wall. This provides space for hardw</li></ul>

### **Product Data**

## Materials: Panels with gypsum core, paper encased, square or taped edges.

Compliance with Standards: IMPERIAL Brand Gypsum Base meets ASTM Designation C588.

Thermal coefficient of expansion (unrestrained):  $9.2x10^{-6}$  in./in. x °F (40-100 °F); 16.2 mm/km x °C (4-38 °C). Thermal resistance value: R = 0.45 (1/2" base), 0.56 (5/8" base).

Hygrometric coefficient of expansion (unrestrained): 7.2x10<sup>-6</sup> in./in. x °F (7.2 mm/km x °C) at 5-90% R.H.

Vapor Permeance: Vapor Permeance is 0.06 perms for Foil-Back IMPERIAL Brand Gypsum Base. This product is available in all sizes and core types.

**Storage:** Store material in a cool, dry place. Avoid direct sunlight. Maintain temperature above 40 °F (4 °C). **Availability and Cost:** IMPERIAL Brand Gypsum Base is distributed throughout the United States. Contact a United States Gypsum Company sales office or sales person for additional information.

Types, sizes, packaging and weights:

								Approximate weight	
	Thickness		Width		Length		Pc./	lb./	kg/
Product	in.	mm	in.	mm	ft.	mm	bdl.	1000ft. <sup>2</sup>	100m <sup>2</sup>
IMPERIAL Base									
Regular	1/2	12.7	48	1219.2	8 to		2	1820	890
Regular	5/8	15.9	48	1219.2	14	2438.4	2	2320	1130
Foil-Back	1/2	12.7	48	1219.2	8 to	to	2	1820	890
Foil-Back	5/8	15.9	48	1219.2	14	4267.2	2	2320	1130

Submittal Approvals:

Contractor

Job Name

Date

Trademarks The following trademarks used herein are owned by United States Gypsum Company: DIAMOND, DURABOND, DUROCK, EASY SAND, IMPERIAL, SHEETROCK and USG.

Note Products described here may not be available in all geographic markets. Consult your U.S. Gypsum Company sales office or representative for information.

Notice We shall not be liable for incidental and consequential damages, directly or indirectly sustained, nor for any loss caused by application of these goods not in accordance with current printed instructions or for other than the intended use. Our liability is expressly limited to replacement of defective goods. Any claim shall be deemed waived unless made in writing to us within thirty (30) days from date it was or reasonably should have been discovered.

Safety First! Follow good safety and industrial hygiene practices during handling and installing products and systems. Take necessary precautions and wear the appropriate personal protective equipment as needed. Read material safety data sheets and related literature on products before specification and/or installation.

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