## Submittal Sheet 09210

# IMPERIAL<sup>®</sup> Brand Gypsum Base, (FIRECODE<sup>®</sup> and FIRECODE<sup>®</sup> C Core)

			base for fire-rated gypsur	m veneer pla	aster systems					
IMPERIAL FIRECODE' CORE up.1 Sectors	and resist sag.									
		<ul> <li>Economical construction. Large-size panels reduce handling.</li> <li>Panels are designed for direct or resilient attachment to wood or steel framing.</li> </ul>								
	— Imper	<ul> <li>Parers are designed for direct of resilient attachment to wood of steer manning.</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 retarder.</li> </ul>								
Description	IMPERIAL Brand Gypsum Base, FIRECODE and FIRECODE C Core, are ideally suited for fire-rated veneer plaster systems. Available in a variety of sizes, the panels are large enough to be installed like drywall panels. The distinctive blue face paper is designed to provide the qualities desirable for veneer plaster applications, that is, it controls water absorption, provides to a strong plaster bond and resists plaster slide. The panels provide a rigid base that resists sag. When securely attached, gypsum base adds lateral stability to the assembly. Also, gypsum base partitions faced with veneer plaster on both sides h high resistance to sound transmission. Resilient attachment further improves ratings. These panels are not affected by dec dry rot or normal moisture; they will not attract vermin. FIRECODE Core IMPERIAL Brand Gypsum Base is 5/8" thick and provides Type X fire-resistant performance. FIRECODE C Core IMPERIAL Brand Gypsum Base, in 1/2" and 5/8" thick nesses provides the highest levels of fire-resistant performance. IMPERIAL Brand Gypsum Base is designed to be used with the following plaster products: IMPERIAL® Brand Finish Plaster, IMPERIAL® Brand Finish Plaster—Special White, DIAMOND® Brand Interior Finish Plaster, Norfolk Special Veneer Plaster, IMPERIAL® Brand Basecoat Plaster, DIAMOND® Brand Veneer Basecoat Plaster, Custom Veneer Basecoat Plaster and USG® Special Basecoat Plaster. Foil-back panels are intended for use in exterior walls. The bright aluminum foil backing has a permeability of 0.06									
	perms, w	hich is sul	ostantially below the 1.00 peri	m limit permi	ssible under HUD requirements for a vapor retarder.					
Limitations	<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 base</li> </ol>									
		for adhesive application of ceramic tile (SHEETROCK® Brand Gypsum Panels, Water-Resistant, or DUROCK® Brand Cement								
		Board are recommended for this use). Do not apply DIAMOND Interior Finish Plaster to IMPERIAL Brand Gypsum Base that has faded from exposure to sunlight. Where								
	fading ha	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.								
	4. 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. 5. Do not exceed the maximum spacing of framing members shown in the table below.									
	Maximu	m spacing	of framing members for new cor   base and finish assembly	spacinq <sup>(1)</sup>						
	in.	mm		in.	mm					
	1/2	12.7	IMPERIAL Brand Gypsum Base							
			one layer, 1-coat system	16	406.4					
			two layer, 1 & 2-coat system	16 or 24 <sup>(2)</sup> 24	406.4 or 609.6 <sup>(2)</sup> 609.6					
	5/8	15.9	IMPERIAL Brand Gypsum Base	24	003.0					
			one layer, 1-coat system	16 or 24 <sup>(2)</sup>						
			one layer, 2-coat system	24(2)	609.6 <sup>(2)</sup>					
	(1) =	andicular	two layer, 1 & 2-coat system	24	609.6					
	<ol><li>For per ceilings.</li></ol>	penaicular o	parallel application to framing. Per	penaicular is pre	eferred for maximum strength; parallel application is not recommended for					
	(2) 24" (60	9.6 mm) sp ® or EASY SA		GHEETROCK <sup>®</sup> Brar	nd 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, 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 enging.</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 gaped. Attach the control joint to gypsum base in form outpet stape 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 on each side of the ajoint. The protective plastic tape over the open grove should be left in place milling is and fastener so flang or wall. This provides space for hardware or door bucks and allows for expansion when trim is used for perimeter isolation. Slip trim over edge of base with long flange behind base. Install the base with the trim firmly abutting the surface.</li> <li>Comer Bead—Apply to all external angles. Hold tightly against angle and fasten to base by nailing o</li></ul>

### **Product Data**

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

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

Thermal coefficient of expansion (unrestrained): 9.2x10<sup>-6</sup> in./in. x °F (40-100 °F); 16.2 mm/km x °C (4-38 °C).

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									
FIRECODE	5/8	15.9	48	1219.2	8	2438.4	2	2330	1140
FIRECODE C	1/2	12.7	48	1219.2	to	to	2	1990	970
FIRECODE C	5/8	15.9	48	1219.2	14	4267.2	2	2480	1210

Submittal Approvals:

Contractor

Job Name

Date

Trademarks The following trademarks used herein are owned by United States Gypsum Company: DIAMOND, DURABOND, DUROCK, EASY SAND, FIRECODE, 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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