

# TECHNICAL BULLETIN

## ASTM C1289 TYPE DESIGNATIONS AND FACERS

ASTM C1289, Standard Specification for Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board, differentiates products and their respective performance by designating Types. With a few exceptions, the Types are defined by the facers used in the manufacturing process to sandwich the foam core. Facers can be flexible or rigid and can play a significant role in the performance of the finished product. For example, aluminum foil facers are often chosen for wall assemblies to create a vapor/gas-tight design, and coated glass mat facers are often specified to enhance dimensional stability and mold resistance over cellulosic felt in roofing applications. There are also many applications where adding a rigid board to the insulating layer is desirable. For example, wood adhered to the insulation board can provide structural capacity or a surface for attaching cladding, while achieving continuous insulation requirements. The table below provides a quick reference guide on the ASTM C1289 Type designations and definitions.

ASTM C1289 STANDARD - TYPE DESIGNATIONS	
<b>Type I</b>	
All facers are of aluminum foil, and may be reinforced or unreinforced aluminum foil	
<b>Type II</b>	
Class 1	Facers of glass fiber reinforced cellulosic felt
Class 2	Facers of coated polymer-bonded glass fiber mat
Class 3	Facers of uncoated polymer-bonded glass fiber mat
Class 4	Facers of coated or uncoated polymer-bonded glass fiber mat (This Class 4 applies to a high compressive strength board of 1/2" maximum thickness)
<b>Type III</b>	
<b>Board:</b> Perlite insulation board	
<b>Insulation:</b> Any insulation board of Type II Class 1, Class 2 or Class 3, bonded to the perlite insulation board	
<b>Type IV</b>	
<b>Board:</b> Cellulosic fiber insulation board	
<b>Insulation:</b> Any insulation board of Type II Class 1, Class 2 or Class 3, bonded to the cellulosic fiber insulation board	
<b>Type V</b>	
<b>Board:</b> OSB or plywood	
<b>Insulation:</b> Any insulation board of Type II Class 1, Class 2 or Class 3, bonded to the OSB or plywood	
<b>Type VII</b>	
<b>Board:</b> Glass mat faced gypsum board	
<b>Insulation:</b> Any insulation board of Type II Class 1, Class 2 or Class 3, bonded to the glass mat faced gypsum board	

Rmax provides many of the traditional ASTM C1289 designated products to meet the demands of the market. Rmax, known for its innovation and customer service, also works with customers to develop products specifically tailored to meet a particular application. When these products do not fit within the current designation structure of ASTM C1289, Rmax uses the most appropriate designation based on the flexible facer and performance criteria.

For a quick reference guide on the C1289 Type designation for all Rmax products, refer to the table on the back of this document.

# Rmax Product Designation Reference Guide

PRODUCT NAME	ASTM C1289 DESIGNATIONS								
	Type I	Type II				Type III	Type IV	Type V	Type VII
		Class 1	Class 2	Class 3	Class 4				
Durastheath®									
ECOMAXci® Ply									
ECOMAXci® FR									
ECOMAXci® FR Air Barrier									
ECOMAXci® FR Ply									
EVOMAXci™									
Multi-Max® FA-3									
Nailable Base-3									
Re-Cover Board-3 (Standard)									
Re-Cover Board-3									
R-Matte® Plus-3									
Tapered Therमारoof®-3									
Tapered Ultra-Max®									
ThermaBase-CI™ (Thermasheath®)									
ThermaBase-CI™ (Durasheath®)									
Therमारoof® Plus-3									
Thermasheath®									
Thermasheath®-SI									
Thermasheath®-XP									
TSP®									
TSX-8510									
TSX-8520									
Ultra-Max®									
Ultra-Max® HD									

\*1. Includes fiberboard laminate panel  
 \*2. Utilizes foil faced insulation (Type I)

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