

TECHNICAL BULLETIN

UL FIRE RESISTANT ASSEMBLIES FOR EXTERIOR WALLS USING RMAX INSULATION

Rmax has tested and obtained classifications through Underwriters Laboratories (UL) for the use of various wall insulation products in fire resistant rated Wall and Partition assemblies per ANSI/UL 263. These assemblies are designated by design numbers and are specifically shown in the latest edition of Underwriters Laboratories "Fire Resistance Directory". A summary of Rmax products and design number listings are shown below. Refer to the UL Online Certification Directory for confirmation and the most up to date listings.

ECOMAXci® FR Air Barrier, ECOMAXci® FR, TSX-8510, Thermasheath®-XP, Thermasheath® and Durasheath®

Design Nos. U026, U326, U330, U349, U354, U355, U364, U424, U425, U460, U902, U904, U905, U906, U907, U912, U939, V321, V332, V454, V499, W307, W417, W429, W448, W449, W451, W452, W456

ECOMAXci® FR Ply, Thermasheath®-SI, ECOMAXci® Ply and ThermaBase-CI®

Design Nos. U026, U326, U330, U349, U354, U355, U364, U424, U425, U460, U902, U904, U905, U906, U907, V302, V303, V321, V332, V454, V499, W307, W417, W456

	WALL TYPE	INTERNAL FIRE EXPOSURE	EXTERNAL FIRE EXPOSURE
BEARING WALL	Wood Stud	45min: V321 ¹ 1hr: U026, U326 ⁴ , U330, U354 ³ , U355 ² , U364, V302, W307, V303 2hr: U349 ⁶	1hr: U364, W307
	FR Wood Stud	2hr: V332 ⁵	
	Steel Stud	45min: U424, U425, V499, W456 1hr: U424, U425, U460, V454, V499, W429, W452, W456 1.5hr: U424, U425, V499, W456 2hr: U349, U424, U425, V499, W456	45min: W456 1hr: V454, W429, W452, W456 1.5hr: W456 2hr: W456
	Mass Wall	2hr: U905, U906, U939 3hr: U904, U912, U939 4hr: U902, U939	2hr: U905, U906, U939 3hr: U904, U912, U939 4hr: U902, U939
NON-BEARING WALL	Steel Stud	45min: U424, V499 1hr: U424, V454, V499, W417 1.5hr: U424, V499 2hr: U424, V499 3hr: W429, W451	1hr: V454, W417, W429, W451
	Metal Building	1hr: W448 2hr: W449	1hr: W448 2hr: W449
	Mass Wall	2hr: U905, U906 3hr: U904, U907, U912 4hr: U907	2hr: U905, U906 3hr: U904, U907, U912 4hr: U907

Wood Stud Finish Ratings: ¹16min, ²23min, ³24min, ⁴25min, ⁵42min, ⁶55min

Underwriters Laboratories' recognition of these classifications requires that every detail be followed exactly as specified in the Directory. Any deviation from the classified products, thicknesses, and methods of construction renders the construction meaningless as to its fire resistance ratings listed in the Directory. This Technical Bulletin provides confirmation of the classifications and appropriate designs that are particular to the insulation, however, the specific details concerning the wall structure and materials must be obtained from UL. Rmax recommends that all designers and applicators obtain the necessary constructions directly from Underwriters Laboratories through the Online Certifications Directory located at www.ul.com. Rmax will not render any comment as to the appropriateness of changes in the details from those shown in the Underwriters Laboratories Fire Resistance Directory.

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