

MAXIMUM PERFORMANCE

Fire Resistance:

- A fire retardant is added to the Blue Maxx forms during manufacturing
- Exceeds Classification A as tested in accordance with CAN4-S124-M85 when covered with 1/2" (12.7mm) GWB
- When protected by 1/2" conventional GWB, Blue Maxx meets the requirements of the UBC Standard 26-3 (1994) Standard Room Fire Test
- Concrete provides a 3 hour (6 1/4") or 4 hour (8") fire resistance rating
- Flash Ignition Temperature of 698°F (370°C) and Self Ignition Temperature of 806°F (430°C) in accordance with ASTM D1929

	Canada*	USA**
Flame Spread	140	10
Smoke Developed	Over 380	300

*From ULC File CR1762 **From UL File R5817 (N)

Energy Efficiency:

- Thermal resistance of R22 in accordance with procedures in the *ASHRAE Handbook - 1997 Fundamentals*
- Due to the moderating effect of the thermal mass of concrete, thermal performance of the Blue Maxx wall can exceed the performance of a wood framed wall insulated up to R-50

Sound Resistance:

- Minimum Sound Transmission Classification (STC) of 50 (Higher levels are easily attainable. Consult your Blue Maxx Representative.)

Wind Resistance:

- Minimal damage from impact testing in accordance with Dade County Protocol PA 201-94 simulating hurricane storm damage

Water Vapor Resistance:

- Water vapor permeance rating of 3.50 perms-in (200 ng/Pa-s-m²)

Structural Design Considerations:

- Structural integrity of the wall is a function of the reinforced concrete
- Design as reinforced concrete in accordance with accepted engineering principles

Building Requirements:

- Interior face of the Blue Maxx wall shall be protected from interior spaces with minimum 1/2" (12.7mm) GWB in accordance with local and national building codes
- Exterior face of the Blue Maxx wall shall be protected with approved exterior finish materials (i.e. masonry, siding, and stucco)
- Below grade waterproofing/drainage shall be in accordance with local building codes and compatible with EPS

Code Evaluations:

- Blue Maxx has been evaluated by the following agencies on behalf of the building code referenced
 - CCMC-NRC in accordance with the National Building Code of Canada (1990) (Report#12641-R)
 - BOCA-ES in accordance with the BOCA National Building Code (ER#94-31)
 - ICBO-ES in accordance with the Uniform Building Code (ER#5119)
 - SBCCI-ES in accordance with the Standard Building Code(ER#94172)
- Blue Maxx is manufactured in accordance with CAN/ULC-S701 and has been tested in accordance with ASTM E84

Wall Area Per Concrete Volume*

	8" Core	
	Per Cubic Yard	Per Cubic Meter
Imperial	38.8 ft ²	50.3 ft ²
Metric	3.6 m ²	4.7 m ²

*Values refer to standard form units and do not account for 90° or adjustable corners.



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