



DURABLE & PROTECTIVE
WALLCOVERING
YOU CAN CUSTOMIZE

VRP® WALL SYSTEM W/ R-FACTOR 960
SURFACE ABRASION RESISTANCE
ASTM STANDARD D 4977

Standard classification and performance requirements for surface abrasion resistance.

This test is to measure the potential damage to wall panels caused by severe abrasion. It closely simulates the typical damage inflicted on wallboard in high use corridors commonly found in hospitals, clinics, food service areas, laboratories and educational facilities

1: The **“Abrasion Resistance Test”** procedure is a severe abrasion test and measures resistance to abrasion of a wall panel surface. This test is performed using a steel bristle brush that is scrubbed on the surface of the wall panel with 25 lbs. pressure for 50 cycles. The abraded depth observed on the panel surface is then measured and classified.

2: Test results are classified into three performance levels indicating maximum allowable abraded surface depth for each level as follows:

- **Level 1:** 0.126 inches (3.2 mm)
- **Level 2:** 0.059 inches (1.5 mm)
- **Level 3:** 0.010 inches (0.3 mm)

Results: ASTM: D 4977

Testing Material	Untreated Wallboard Testing	Test Results	Improvement vs. Baseline
R Factor 960 w/ <i>Acrylic Latex Paint</i> Standard 5/8" Gypsum Wallboard	0.4 – 0.5 in. Baseline	0.015 – 0.017 in. Exceeds Level 2	200% 3x better than Level 2 max.
R Factor 960 w/ <i>PlusCoat 200</i> Standard 5/8" Gypsum Wallboard	0.4 – 0.5 in. Baseline	0.0025 – 0.004 in. Exceeds Level 3	350% 3x better than Level 3 max.
R Factor 960 w/ <i>VRP System Application</i> Standard 5/8" Gypsum Wallboard	0.4 – 0.5 in. Baseline	0.000 – 0.001 in. Exceeds Level 3 <i>(highest wallboard abrasion)</i>	1000% 10x better than Level 3 max.

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