

### M4 - UNDERLAYMENT APPLICATION FOR FLOORS

M4 panels are a fast & economical alternative to wet floor topping systems. Simply install 1/2" thick M4 panels directly over your structural wood or cement panel sub-floor assembly and increase fire-ratings up to 1-hour, while boosting sound ratings to 55+ STC / IIC (or higher). Once installed M4 is ready to receive wall framing and floor finishes saving you time, weight, money & hassle vs poured systems.

#### Eliminate Wet Trades

- No curing time or delays of poured systems
- Substitute wet trade labor for carpentry labor
- Avoid adding moisture to your building
- Lightweight alternative (2.7 lbs/sf)
- Cut back on winter heating requirements
- No peaks / valleys typical of wet pour systems

#### Quick & Easy Install

- Full size sheets handle & install quickly
- Installs with standard tools & fasteners
- Limit need to fit around partitions & fixtures
- Cut penetrations quickly and easily

#### Fire Resistance

- UL Certified for US & Canada
- 1-Hour Fire-Rated Assemblies
- ASTM E136 for noncombustibility
- ASTM E84 | Class A

#### Sound Testing

- Intertek Full-Scale Sound Tests
- ASTM E90 / ASTM E492
- LVT: STC 59, IIC 56, HIIC 67
- CARPET / PAD: STC 59, IIC 78, HIIC 91
- CERAMIC TILE: STC 60, IIC 59, HIIC 62

#### Health & Safety

- No Silica, Asbestos, Formaldehyde or VOC's
- Does not support mold growth
- No chloride (<1%)
- Passes extended corrosion testing

#### Other Features

- Resistant to weather & standing water
- Sealed for added protection against elements
- Provides no food value to insects
- Dimensionally stable
- Quality controls include UL, ICC & QAI.

#### Ideal For:

- Apartments, Condos & Hotels
- Multi-Family & Student Housing
- Modular Construction
- Mixed use, Office, Assisted Living & More

#### SIZE & PACKAGING

Dimensions	1/2" Thick x 4' x 8'
Weight	~ 2.7 lbs/sf (86 lbs ea)
Color	White
Edge Detail	Square Edge
Pallet Sizes	~45 pcs / pallet



ESR-3840



B1136



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## PHYSICAL AND MECHANICAL PROPERTIES

PROPERTY	STANDARD	VALUES
Flexural Strength / MOE	ASTM C1185	> 580 wet / dry (per min ICC AC 386)
Falling Ball Impact	ASTM D1037	Pass (per ICC AC 386)
Compression Indentation	ASTM D2394 (1" disk @ 1250 psi)	Pass (per ICC AC 386)
Surface Burning Characteristics	ASTM E 84	Class A
Noncombustibility	ASTM E 136-19	Passed (ICC & QAI Certified)
Corrosion Resistance	ASTM C665 - extended 720 hrs test	Pass (Steel, Aluminum, Copper)
Silica Content	MSDS	No Silica
Asbestos Content	MSDS	No Asbestos
Formaldehyde Content	MSDS	No Formaldehyde
Chloride Content	EN 14582:2007	No added Chloride (< 1%)
Mold Resistance	ASTM D3273	10 (Scale 1-10, 10 being best)
Freeze Thaw Resistance	ASTM C666	Pass (25 cycles per ICC AC 386)
R Value	ASTM C518	0.83
Humidity Absorption	72F – 94% RH, 720 hours	<28% (sealed board = <5%)
Humidified Deflection	ASTM C1396	Pass (per ICC AC 386)
Expansion from dry to wet	ASTM D1037 (30% to 90% RH)	< 0.07% (per min ICC AC 386)
Nail head pull through	ASTM D1037	216 lbs (saturated)
PH Value	MSDS	11
Density	ASTM C1186	~ 64 lbs/ft <sup>3</sup>
Manufacturing Tolerance Thickness, Width, Length	ASTM C1186	+/- 0.5%

Assemblies must be built as-tested to achieve published performance, more details available at [www.multi-panels.com](http://www.multi-panels.com) or upon request. Some results list minimum performance requirements per referenced standard. Actual performance shall be considered equal or better.

## FLOOR SYSTEM – FIRE & ACOUSTIC

PROPERTY	STANDARD	VALUES
UL Classified Fire-Ratings	ASTM E119 / UL 263 UL Classified – R39572	1-Hour Fire Rated Designs   UL L528 & L587
Acoustical Ratings	ASTM E90 / ASTM E492	STC 55+ & IIC 55+ available with carpet, ceramic, LVT & engineered wood
Floor Assembly as Tested	Both Sound & Fire	½" M4 over min 23/32 wood or ¾" Nocom subfloor installed over wood trusses spaced up to 24" OC, single layer gypsum board

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### Fasteners:

Screws, staples or nails may be used. Fasteners must be treated for corrosion resistance and compatible for use with cement and wood substrates. Length of fastener must be long enough to adequately attach into subfloor. Space 12" OC, min edge setback ½" from panel edges & 2" inches from corners. Fastener pattern / types may vary with desired test assemblies.

### Adhesive:

Adhesive used to bond M4 to subfloor must be suitable to bond cement and wood and rated for exposure to elements.

### Warranty:

The M4 warranty covers certification scope for 10 years. Details available in full warranty terms.

*Important: All applications to be reviewed and approved by licensed design professional as meeting requirements of application & local building code. Download current and complete installation specifications & testing data online at [www.multi-panels.com](http://www.multi-panels.com). Failure to follow current installation instructions may affect product performance & warranty coverage.*

### Specification Approvals

Project Name	
Location	
Contractor / Architect	
Date	

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