

JM SPIDER[®] BLOW-IN FIBER GLASS

"DENSE-PACK" APPLICATION

JM Spider insulation offers many big advantages over cellulose in drill-and-fill applications. Incredibly easy to install, it's convenient and saves time, while offering superior thermal and acoustical performance.

JM Spider insulation also provides up to 30% better airflow resistance than cellulose when installed at recommended densities for site-built construction. Our unique design enables the fibers to more effectively fill tight spaces around pipes, wires and electrical boxes. For example, JM Spider insulation will fill 2x4 cavities up to an impressive R-15 thermal rating and 2x6 cavities up to R-24. In addition, since fiber glass is naturally mold resistant, it does not encourage the growth of mold or mildew.

WHY JM SPIDER?

Small Fiber Diameter:

- Superior thermal and acoustical performance
- Provides higher airflow resistance vs. cellulose

Small Nodule Size:

- Allows insulation to easily flow around obstacles within a wall cavity
- Allows for complete and uniform cavity fill
- Allows for use of small-diameter application hoses and mortar tools
- Minimizes potential for equipment plugging
- Won't lose R-value due to natural convection

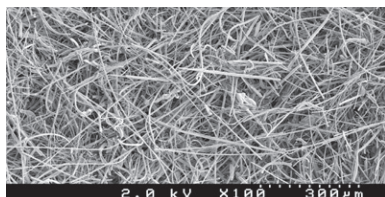
PERFORMANCE ADVANTAGES

- Won't support mold growth
- Won't rot or decompose
- Noncorrosive
- Noncombustible
- Won't hold moisture
- Won't lose R-value with age
- Primarily composed of sand, a rapidly renewable resource
- Low dust, no itch, won't burn skin or eyes
- Made without formaldehyde
- Works with most types of blowing machines designed to process fiber glass insulation
- High coverage per bag
- Dry installation (no binder required)
- Uniform dense-pack cavity fill
- Won't settle
- Contains no plastic, cardboard or other noninsulating debris
- Minimal chemical additive content; contains no acidic fire-retardant chemicals
- Safe to use and install (contact JM for Fiber Glass Health Indemnity Agreement information)
- Contains at least 25% recycled glass (5% pre-consumer, 20% post-consumer)

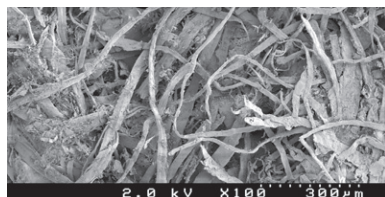
Specification Comparison	JM Spider	Cellulose		
Installed Density, pcf*	2.2	3.5	3.7	4.0
Bag Weight, lbs	30	30	30	30
Coverage @ 3.5" ft ² /bag	47	29	28	26
Advertised R-value @ 3.5"	15	13	13	13
Tested R-value @ 3.5"	15.1	12	11.9	11.7
Airflow Resistance (lb/ft ²)/(ft ³ /s)	46	22	26	33
Air Permeance, cfm/ft ² @ 50 Pa	2.3	4.4	3.5	2.6

*The recommended installed dense-pack density for JM Spider is 2.2 pcf for drill-and-fill application. Typical installed dense-pack densities for cellulose range from 3.0 to 3.5 pcf; some weatherization agencies recommend 4.0 pcf to improve airflow resistance.

X100 SEM PHOTOMICROGRAPHS



JM Spider Fiber

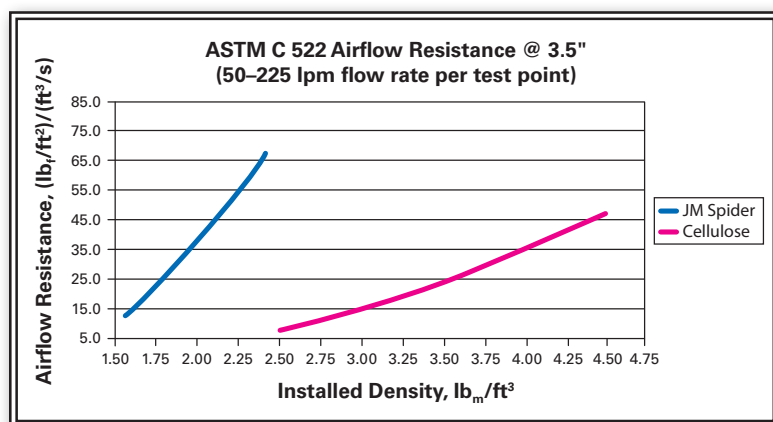


Cellulose Fiber

FINER FIBER = BETTER AIRFLOW RESISTANCE, BETTER THERMAL PERFORMANCE

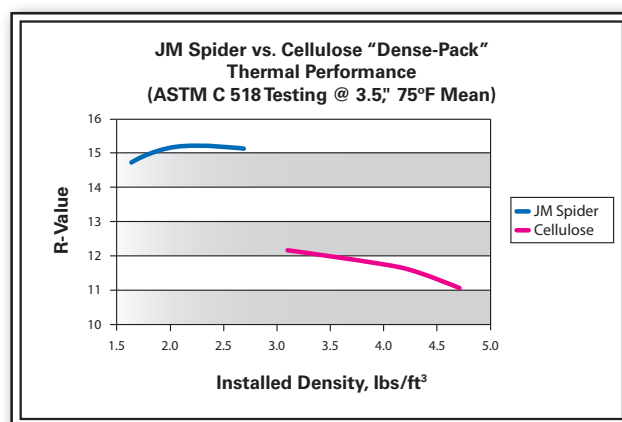
Fine-diameter JM Spider fiber creates a tortuous path for heat and airflow, resulting in high thermal and airflow resistance. JM Spider fiber is also very effective at scattering and absorbing IR radiation, which further improves R-value. Coarse-fiber cellulose has more direct airflow passages and poorer IR blocking capability, which results in less resistance to heat and airflow.

ASTM C 522 AIRFLOW RESISTANCE @ 3.5" DENSE-PACK APPLICATION (50–225 lpm flow rate per test point)



JM Spider has higher airflow resistance than cellulose.

JM SPIDER VS. DENSE-PACK CELLULOSE THERMAL PERFORMANCE (ASTM C 518 Testing @ 3.5" 75°F mean)



JM Spider provides 4.3 R-value per inch (R-15 @ 3.5").

JM SPIDER FIBER GLASS COMPLIANCE

ASTM C764, ASTM E84, CAN/ULC S-702, CAN/ULC S-102, ULC S-129, ASTM C1149

HOW TO GET STARTED

Visit specJM.com/retrofit or call (800) 654-3103 to learn more about JM Spider products, applications, training opportunities and additional resources.

Distributed by:



**Johns Manville
Insulation Systems**
717 17th Street (80202)
P.O. Box 5108
Denver, CO 80217-5108
(800) 654-3103
JM.com