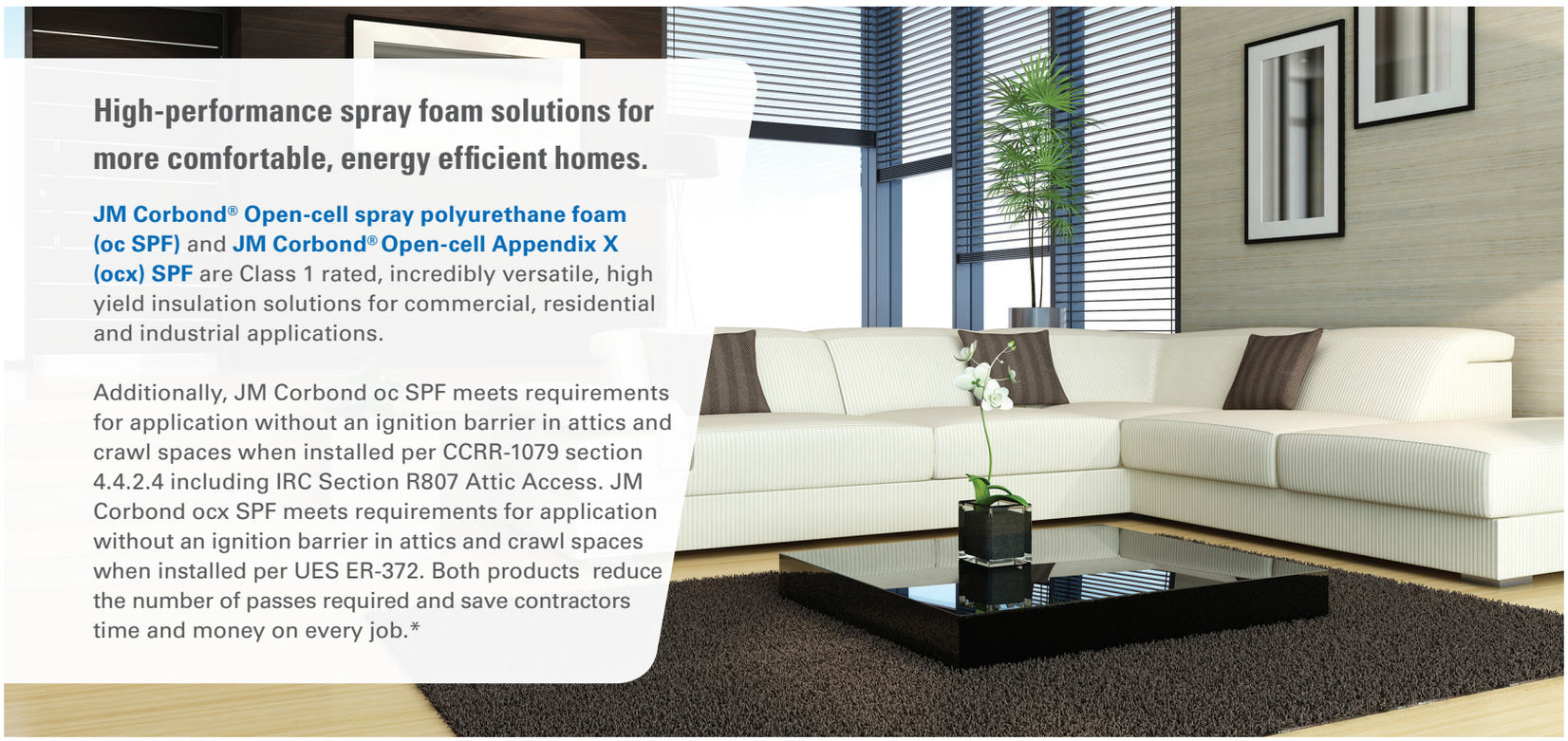
Johns Manville
A Berkshire Hathaway Company

JM Corbond® oc SPF
JM Corbond® ocx SPF



High-performance spray foam solutions for more comfortable, energy efficient homes.

JM Corbond® Open-cell spray polyurethane foam (oc SPF) and **JM Corbond® Open-cell Appendix X (ocx) SPF** are Class 1 rated, incredibly versatile, high yield insulation solutions for commercial, residential and industrial applications.

Additionally, JM Corbond oc SPF meets requirements for application without an ignition barrier in attics and crawl spaces when installed per CCRR-1079 section 4.4.2.4 including IRC Section R807 Attic Access. JM Corbond ocx SPF meets requirements for application without an ignition barrier in attics and crawl spaces when installed per UES ER-372. Both products reduce the number of passes required and save contractors time and money on every job.*

WHOLE HOUSE COMFORT

- Stops air leakage (accounting for up to 1/3 of energy loss in a building) with an effective air barrier that will not shrink or settle for better indoor temperature control year-round
- Minimizes sound transmission and improves Sound Transmission Class (STC) rating to reduce noise pollution

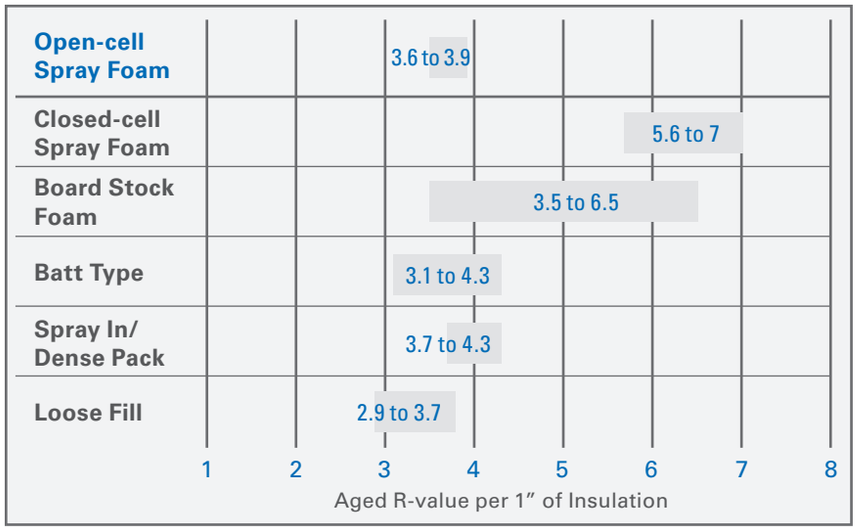
ENERGY EFFICIENCY

- Reduces heat transfer via conduction and radiation to improve thermal performance
- R-values up to R-3.8 at 1 inch (JM Corbond oc SPF) and R-3.7 at 1 inch (JM Corbond ocx SPF)
- Better efficiency reduces monthly heating and cooling costs, which account for about half an energy bill

HEALTHIER ENVIRONMENTS

- Eliminates unwanted air exchange and controls moisture infiltration to decrease exposure to outdoor pollutants, allergens, dust, mildew and mold
- 100% water-blown insulation for zero ozone depletion

Spray Polyurethane Foam vs. Other Insulation Materials



Technical Information:

Properties (Test Method)	JM Corbond oc SPF	JM Corbond ocx SPF
R-value (aged) (ASTM C518)	3.8 at 1 inch	3.7 at 1 inch
Sound Transmission Coefficient (ASTM E90)	38** (STC)	38** (STC)
Tensile Strength (ASTM D1623)	4.7 psi	5.1 psi
Dimensional Stability (D2126)	< 15% Change in Volume	< 15% Change in Volume
Core Density (ASTM D1622)	0.5 pcf (nominal)	0.5 pcf (nominal)
Flame-Spread Index Smoke-Developed Index (ASTM E84)	< 25 < 450 (at 4 inches)	< 25 < 450 (at 4 inches)
Ignition Barrier Not Required in Attic & Crawlspaces***	Unvented Attics IRC Section 316.6 CCRR-1079****	ACC377 Appendix X UES ER-372

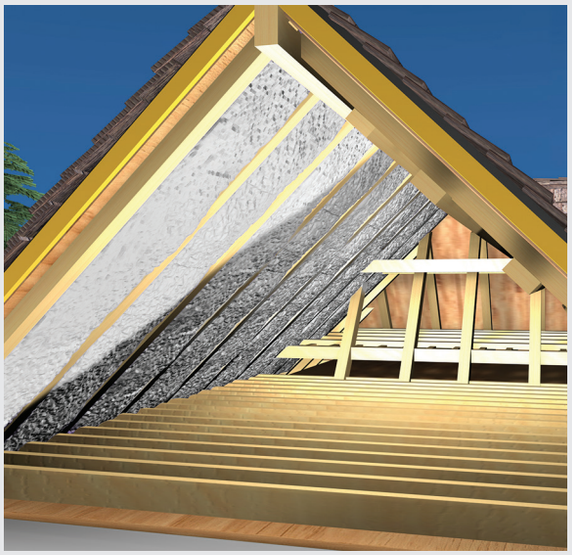
* Always follow your local building codes.

** Residential exterior wall with 16" o.c. 2x4 wood studs, OSB sheathing, and ½" gypsum board. STC 40 with fiberboard siding.

*** See evaluation service report for requirements of application without a prescriptive ignition barrier including:
- Entry to the attic or crawl space is only to service utilities and no storage is permitted.
- There are no interconnected attic or crawl space areas.
- Air in the attic is not circulated to other parts of the building.
- Attic ventilation is provided when required by IBC Section 1203.2 or IRC Section R806.1 as applicable, except when insulation is permitted in unvented attics in accordance with 2015 IBC Section 1203.3 (not applicable under the 2012 or 20019 IBC), or IRC Section R806.5 (2009 - R806.4).
- Under-floor (crawl space) ventilation is provided in accordance with IBC Section 1203.5 (1203.3) or IRC Section R408.1, as applicable.
- Combustion air is provided in accordance with International Mechanical Code® Section 701 (Sections 701 and 703).

**** The attic must have access complying with IRC Section R807

Install of JM Corbond oc SPF in residential



JM Corbond ocx SPF installed in an attic

A horizontal downward-opening hatch must be used with JM Corbond oc in an unvented attic without an ignition barrier. The hatch may use spring loaded, or pneumatic closure mechanisms, but must be not locked. The attic must have attic access complying with IRC Section R807.

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For additional information: www.JM.com/OpenCellSprayFoam 800.654.3103

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