FIRE PROTECTION

Life safety is paramount for architects and building officials. Fire control through compartmentalization is a critical component in passive protection. Fire-resistant expansion joint systems are vital limiters of flame spread through a structure. Willseal’s innovative internal smoke barrier prevents toxic gases and fumes from permeating the joint system.

SUSTAINABILITY/ECO FRIENDLY

Willseal is dedicated to the environment and focused on ways to reduce, reuse, and recycle. Willseal’s impregnation contains 0g/L volatile organic content (VOC) satisfying the LEED™ criteria for Indoor Environmental Quality. Willseal materials can help contribute to MR Credit 5.1.

THERMAL PROTECTION/MOISTURE CONTROL

Buildings of all ages can experience damage due to water penetration into walls through joints and around windows. This unwanted moisture can cause freeze thaw issues, finish material degradation, and mold propagation. If the internal atmospheric humidity of a wall is increased by 5%, it can lower insulating R-Values by as much as 50%. Willseal products are designed to allow condensation and moisture to escape.

ACOUSTICAL PERFORMANCE/SOUND BARRIER

The Willseal technology has an optimum internal geometry for a noise barrier design, while allowing for dynamic movement. Willseal products have an E-90 Sound Transmission Test Rating of STC >50 in a STC 50 rated wall.

SUSTAINABILITY/ECO FRIENDLY

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FIRE RATED
Willseal, working with Underwriters Laboratories, has developed larger, +/-50% movement capable joint systems that meet UL 2079 standards. These next generation systems incorporate a first ever smoke barrier that eliminates the need for intumescent coatings, which are easily damaged. Willseal FR-2V and FR-2H feature a fire-retardant impregnation and meet UL 2079 standards without any silicone coatings.

MASONRY
Willseal's vapor permeable sealants can withstand driving rain of 90 mph (1,000 Pa) while maintaining breathability. Willseal materials can be colored without a silicone face and are ideally suited for cavity walls, relieving angles, and lintels.

PARKING GARAGES
Open air parking structures experience large amounts of thermal and dynamic movement in all directions - vertical, horizontal, and shear. Willseal foam sealants easily adapt with these movements while maintaining water tightness. Willseal's horizontal water barrier laminated in the center of the system is the first of its kind.

STADIUMS
Complex designs and numerous directional changes are inherent in modern stadium construction. Willseal's pre-compressed sealants are the optimal material to manage the difficult architecture of stadiums.

WINDOWS
Today's high performance windows need a state-of-the-art sealant system. Willseal's 3-level principle of window sealing was designed in accordance with RAL "Installation Guide."
- Level 1: Prevent penetration of humidity and condensation
- Level 2: Acoustic and thermal insulation
- Level 3: Weather protection from wind and driving rain

* Meets or exceeds ASTM 547, ASTM 331, ASTM 330, ASTM 283