

Explosion Venting Construction (FM Approval Class Number 4440)

Explosion venting construction is used to enclose hazardous occupancies which have an explosion potential, supplementing other normally provided safeguards. This construction, which may be a separate building or an enclosure adjoining a building or within the building along an exterior wall, is intended to limit the extent of damage for adjoining portions of a plant. The enclosure may contain pressure-resistant interior walls and pressure-relieving exterior walls.

The pressure-resistant wall should be designed to resist a force of 100 lb/ft² (4788.0 Pa) minimum. The pressure-relieving wall or window should be designed to provide the necessary venting area and to release when subjected to a 20 lb/ft² (957.6 Pa) explosive force.

Explosion-Venting Fasteners (Class Number 4440)

Explosion-Venting fasteners are utilized with FM Approved single layer metal panels, glass fiber insulated metal faced sandwich panels and foam plastic insulated metal faced sandwich panels. (See *Protected Metal Panels and/or Walls, Insulated Core* sections for a complete list.) Approved fasteners should release the panel when subjected to the design load.

Each installation must be designed to satisfy its specific venting needs in accordance with FM Approvals requirements.

Weath-R-Seal Washer EXA-74, EXA-76, EXA-79, EXA-84, EXA-19

The Weath-R-Seal Washer consists of a light gauge aluminum bonded to a neoprene backing. A 1/2 in. (12.7 mm) dia. hole is drilled through the FM Approved wall panel to receive a No. 14 screw. Within the hole, a 1/2 in. (12.7 mm) O.D. centering sleeve is installed to assure that the fastener remains centered and perpendicular in the hole. The explosion-venting washer must remain convex after being tightened in compression and in final installed position.

Washer No.	Color Code	Washer Diameter, in.(mm)	Design Load lb (N)
EXA-74	green	.729 (18.52)	70 (310)
EXA-76	blue	.729 (18.52)	110 (490)
EXA-79	tan	.729 (18.52)	175 (780)
EXA-84	light green	.729 (18.52)	435 (1930)
EXA-19	light blue	.729 (18.52)	885 (3940)

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New/Updated Product Listing:	No
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