

Storage Buildings with Damage Limiting Construction for Flammable Liquids

These structures are designed to provide a safe, secure storage area with secondary containment for chemicals and hazardous waste materials. They are designed for the storage and dispensing of flammable liquids. The buildings have been designed to withstand a minimum wind pressure of +20 lb/ft² (1.0 kPa) inward and -28 lb/ft² (1.3 kPa) outward based on a wind speed of 90 mph wind (empty building) unless shown otherwise. The floor support system has a capacity of at least 250 lb/ft² (1208 kg/m²) under dry conditions and the roof assembly is capable of resisting a downward vertical load of at least 40 lb/ft² (193 kg/m²) plus its own weight. The sump volume is of sufficient capacity to handle one-fourth of the building's maximum fluid contents. Buildings are of a non-combustible (non-fire rated) construction unless indicated otherwise. These buildings incorporate venting panels as a means of Damage Limiting Construction. The required area of the venting panels is designed in accordance with FM Global Loss Prevention Data Sheet 1-44, Damage Limiting Construction.

Fire rated buildings may incorporate damage limiting construction (explosion relief) panels as shown below. These panels are not fire rated unless shown otherwise. Non fire rated panels in a fire wall are to be treated as an unprotected opening and may compromise the fire rating on any wall that incorporates such panels. This requires the end user to give careful consideration on where this structure is located and how it is oriented on the property. The structure needs to be oriented such that the fire walls that do *not* contain these panels are adjacent to other structures that need to be protected from a fire exposure. Conversely, walls containing the damage limiting construction panels must be oriented such that if an explosion occurs, the direction of the venting is away from the main building or other occupied areas.

912xxx and 913xxx Series Storage Buildings

Fire rated construction. All buildings are designed to withstand a 90 mph (40 m/sec) wind load applying a 32 lb/ft² (1.6 kPa) inward and -42 lb/ft² (2.1 kPa) outward wind pressure on the structure. The buildings are designed to withstand a combined roof (live and snow) load of 40 lb/ft² (195 kg/m²). The floor support system has been designed for a capacity of 250 lb/ft² (1220 kg/m²) under dry conditions. Buildings designated with as 912xx1 have 2-hr uni-directional fire rated walls while those designated with 913xx1 have a 4-hr uni-directional fire rated walls (rated only for an interior exposure). The buildings with the 2 hr rated fire walls have a 1-1/2 hr rated roof/ceiling assembly while the buildings with the 4 hr rated fire walls have a 3 hr rated floor/ceiling assembly.

The 912020, 912040, 913020 and 913040 units are 75 in (1.9 m) in height while all other units are 97 in (2.5 m) in height.

Units are limited to outdoor usage.

Damage Limiting Construction designed in accordance With Approval Standard 6049, Appendix C, Table C-1.

Model No.	Capacity, drums	Length, in (m)	Width, in (m)
912021	2	40 (1.0)	64 (1.6)
912041	4	64 (1.6)	64 (1.6)
912061	6	64 (1.6)	88 (2.2)
912091	9	88 (2.2)	88 (2.2)
912121	12	88 (2.2)	112 (2.8)
912161	16	112 (2.8)	112 (2.8)
913021	2	40 (1.0)	64 (1.6)
913041	4	64 (1.6)	64 (1.6)
913061	6	64 (1.6)	88 (2.2)
913091	9	88 (2.2)	88 (2.2)
913121	12	88 (2.2)	112 (2.8)
913161	16	112 (2.8)	112 (2.8)

Company Name:	Justrite Mfg Co LLC
Company Address:	3921 Dewitt Ave, Mattoon, Illinois 62938, USA
Company Website:	http://www.justritemfg.com
New/Updated Product Listing:	No

Listing Country:	United States of America
Fire Rating:	2-Hour, 4-Hour
Certification Type:	FM Approved