

Table 9.7.HH.: Water Miscible Flammable and Combustible Liquids in Metal Containers

Liquid	Storage Type	Storage Height m	Ceiling Height m	Fire Water Sprinkler System Design Criteria				Pump Capacity	
				Ceiling			In-rack Layout		
				Sprinkler	Design Density mm/min	Design Area m ²		Without Hydrant gpm	With Hydrant gpm
NON-RELIEVING TYPE CONTAINER OF SIZE >5 & ≤60 GAL.									
Class IB/IC/II/ IIIA	Rack	7.6	9.1	K ≥11.2/ SR/HT	16.3	278	L-5	2000	2500
	Pallet	1.5	5.5	K ≥11.2/ SR/HT	16.3	278	-	1500	1500
Class IIIB	Rack	12.2	15.2	K ≥8.0/SR/ HT	12.2 ¹	278	L – 4	1500	2000
	Pallet	5.5	9.1	K ≥8.0/SR/ HT	14.3	278	-	1250	1500
RELIEVING TYPE CONTAINER OF SIZE >5 & ≤60									
Class IB/IC/II/ IIIA	Rack	7.6	9.1	K ≥11.2/ SR/HT	24.4	278	L-6,7	2500	2500
	Pallet	2	9.1	K ≥11.2/ SR/HT	24.4	278	-	2000	2000
Class IIIB	Rack	12.2	15.2	K ≥8.0/SR/ HT	12.2 ¹	278	L-4,7	1500	2000
	Pallet	5.5	9.1	K ≥8.0/SR/ HT	14.3	278	-	1250	1500
RELIVING TYPE PORTABLE TANK & IBC									
Class IB/IC/II/ IIIA	Rack	7.6	9.1	K ≥11.2/ SR/HT	24.4	278	L-5,7	2500	2500
Class IIIB	Rack	12.2	15.2	K ≥8.0/SR/ HT	12.2 ¹	278	L-4,7	1500	2000
All Class	Pallet	2 High	9.1	K ≥11.2/ SR/HT	24.4	278	-	2000	2000
UNSATURATED POLYESTER RESIN IN NON-RELIEVING METAL CONTAINER									
All Class	All	3.1	10.1	K ≥11.2/ SR/HT	18.3	278	-	1500	2000
Container Size in US Gallons, Height in meters, Design Density in mm/min, Design area in Sq. meter. SH - Maximum Storage Height, CH - Maximum Ceiling Height, DD - Design Density, DA - Design Area, Note: (1) - Increase ceiling density to 24.4mm/min where more than one level of storage is over top in-rack level. (2). Refer to Table 9.7.KK. For Sprinkler layouts and Schemes.									