

Storage height limits by sprinkler system type

EN 12845 / NFPA 13

Maximum protected storage height without supplementary in-rack sprinklers.

Reference table

System	Max height (m)	Max height (ft)	Conditions
EN 12845 CMSA K161	7.6	25	ST1–ST4 cartoned plastics
NFPA 13 control-mode density/area	7.6	25	Group A plastics, ceiling-only
NFPA 13 ESFR K14	9.1	30	Cartoned plastics, 9.8 m ceiling
NFPA 13 ESFR K17	10.7	35	Cartoned plastics, 12.2 m ceiling
NFPA 13 ESFR K22 / K25	12.2	40	Cartoned plastics, 13.7 m ceiling
FM Global ESFR K28	13.7	45	Per FM DS 8-9

Source: NFPA 13 (2022) Chapter 23; EN 12845:2015 Annex B; FM DS 8-9.