

# Let's Talk Reduced QD Magazines

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You are all probably aware that there are certain earth-covered magazines (ECMs), aboveground storage magazines (AGMs), and containers listed in Table AP1-4 of Technical Paper 15 (TP15) that have been approved by the DDESB with reduced net explosives weights (NEWs) or reduced quantity-distances (QDs). These magazines include the GOLAN 5, 10, and 15, NABCO SV-23 and SV-50, Canine Training Aid Explosives Storage Magazine (CETASM), and Advanced Explosive Ordnance Disposal (EOD) Magazine.

This table summarizes the NEW and QD requirements for a few of the reduced quantity magazines. The information comes from either Table AP1-4 of the TP15 or from the DDESB approval memorandum for that magazine.

Organizations use these reduced QD magazines to help provide AE storage in areas where it might be difficult to provide the required QD to exposures under normal circumstances. In planning the location for a reduced QD magazine, there is an additional distance requirement that often gets overlooked. There is a minimum distance requirement for orienting the magazine door away from occupied spaces and facilities. For a reduced QD magazine authorized to contain up to 30 lbs of HD 1.1, a minimum 50 feet separation distance is to be maintained from the door of the magazine, and from any authorized AE operation at the magazine, to the nearest occupied space or facility. For a reduced QD magazine authorized to contain 30 to 50 lbs the minimum distance is 100 feet.

	MAG MCE (lbs HD 1.1)	IBD (ft)	PTRD (ft)	ILD (ft)
GOLAN 5	11	30	20	10
GOLAN 10	23	3	3	3
GOLAN 15	33	4	4	4
NABCO SV-23	32	15	15	5
NABCO SV-50	50	F/S - 20 R - 5	F/S - 20 R - 5	F/S - 20 R - 5
CETASM	1.25	25	15	12
Advanced EOD	1.25	10	10	10

Notes:  
 F/S is Front/Side; R is Rear.  
 For the CETASM and Advanced EOD magazines, refer to TP15 for information in meeting the 1.25 pound MCE requirements.

So, if you're planning on taking advantage of a reduced QD magazine for storage needs, don't forget to allow

for enough room between exposures and the door of the magazine in addition to the IBD, PTRD, and ILD exposure requirements.



Advanced EOD Magazine