

Xenon TPC room weight estimate for floor loading analysis (rev. A 3/10/10) D. Shuman

Subsystem Item	weight	source
TPC on stand (2 ft square foot print desired)		
vessel, lid, TPC, cabling extension	160	CAD model
vacuum pumps	100	est
shielding 1 inch thick, closely fitting	320	CAD model
support stand, aluminum	200	CAD model
contingency 20% of items above	156	
<u>TOTAL</u>	<u>936</u>	

Nearby components <3 ft (not all simultaneously)		
electronics	10	
4 people	600	
(pick one of following at any given time)		
engine hoist	250	est
helium leak checker	150	est
purge gas bottle	100	est
<u>TOTAL (max)</u>	<u>860</u>	

Far away components >3 ft.		
gas system	300	est
electronics TPC	200	est
electronics, diagnostics	200	est
vacuum test chamber	300	est
TPC assembly stand	200	est
toolchests	500	est
workbenches	500	est
<u>TOTAL</u>	<u>2200</u>	

TOTAL Room Weight	3996
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