

Simulation

Simulation of explosion



Warning	3
Explosion Simulation of kg of TNT	4

Warning

The data presented in these tables the data are presented only by way of example

Explosion Simulation of kg of TNT

PROPERTIES			
TNT EQUIVALENT	XXXX	Solid Specific Gravity	XXXX
SOURCE			
Mass/Weight	XXXX	Volume	XXXX



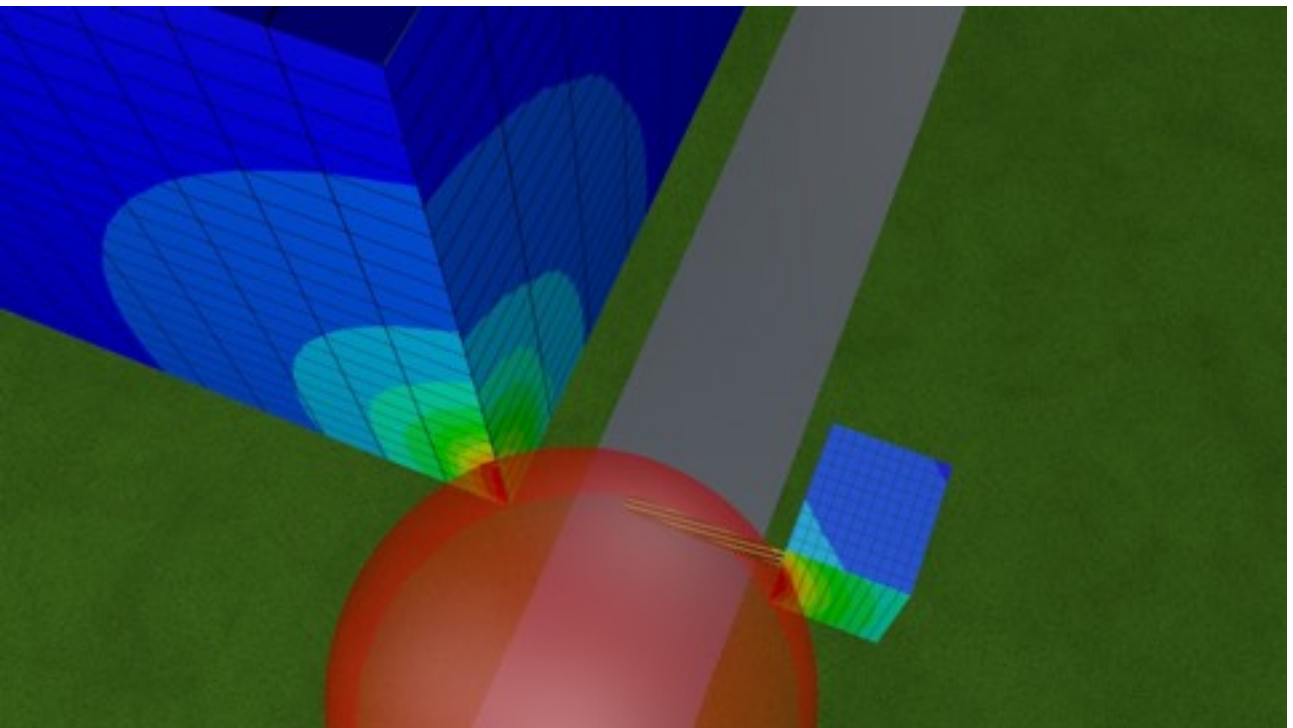
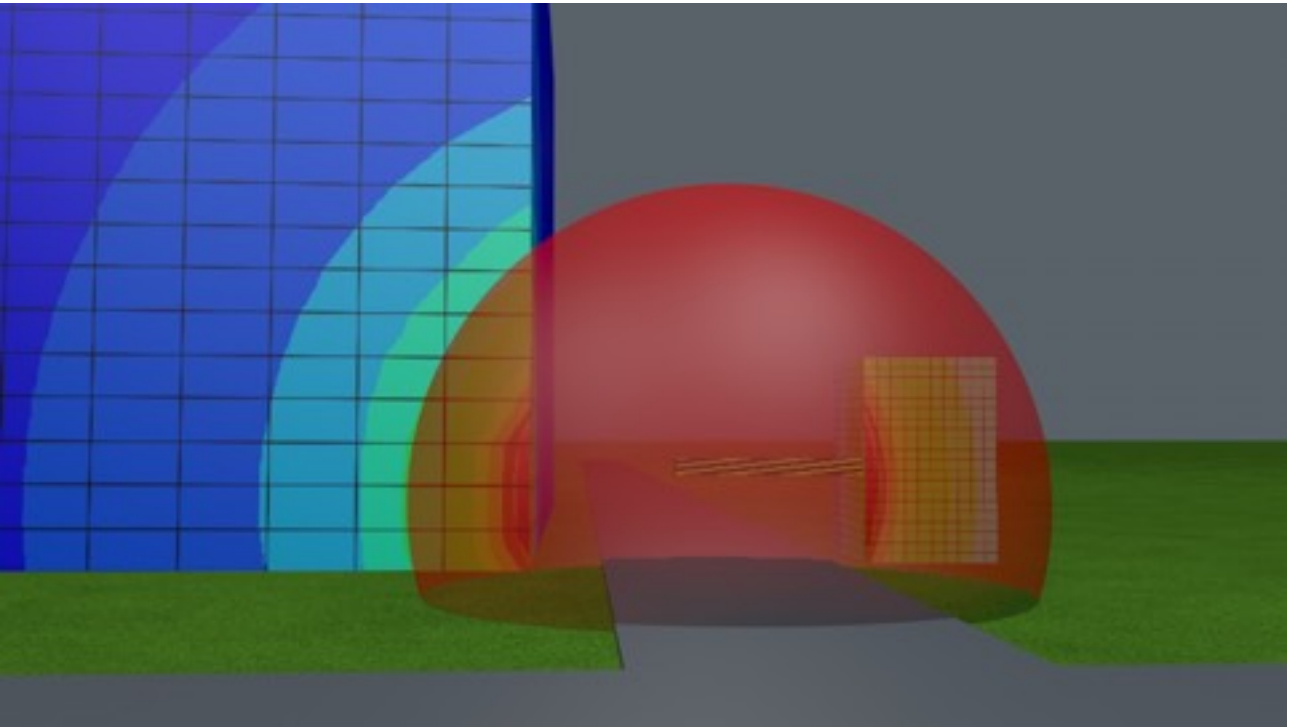
Overpressure X kPa:



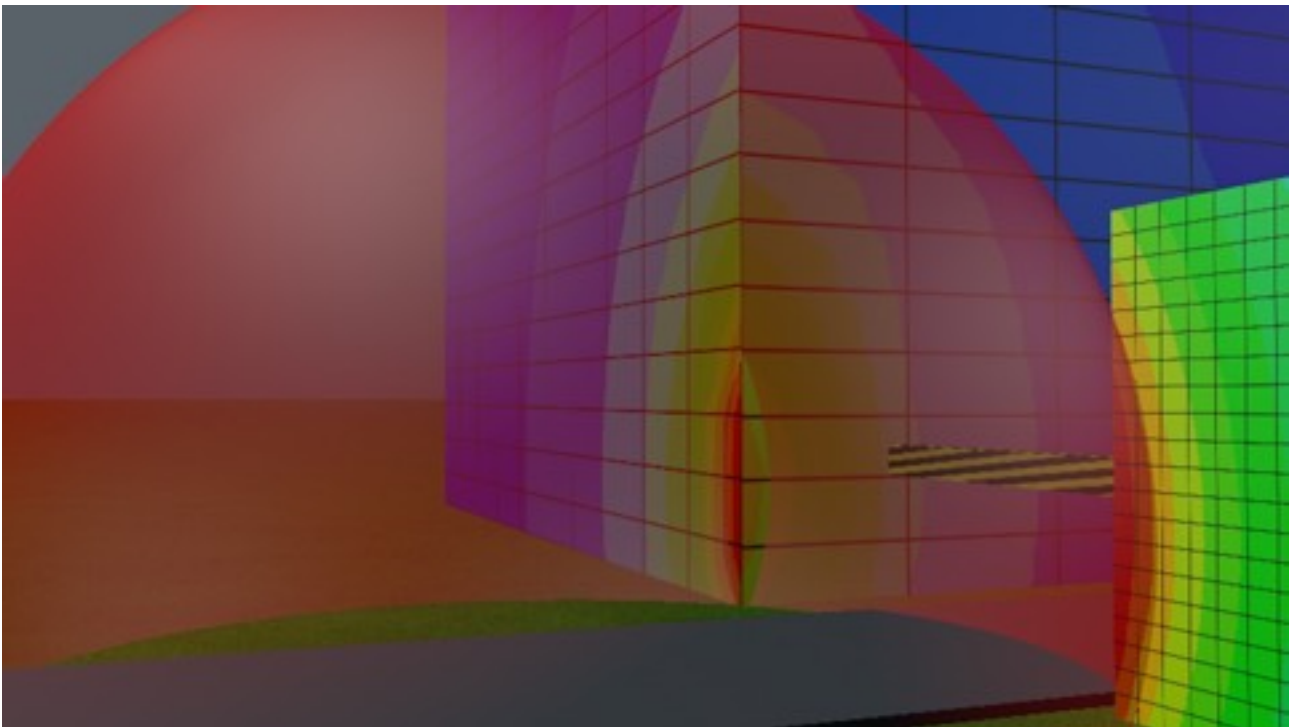
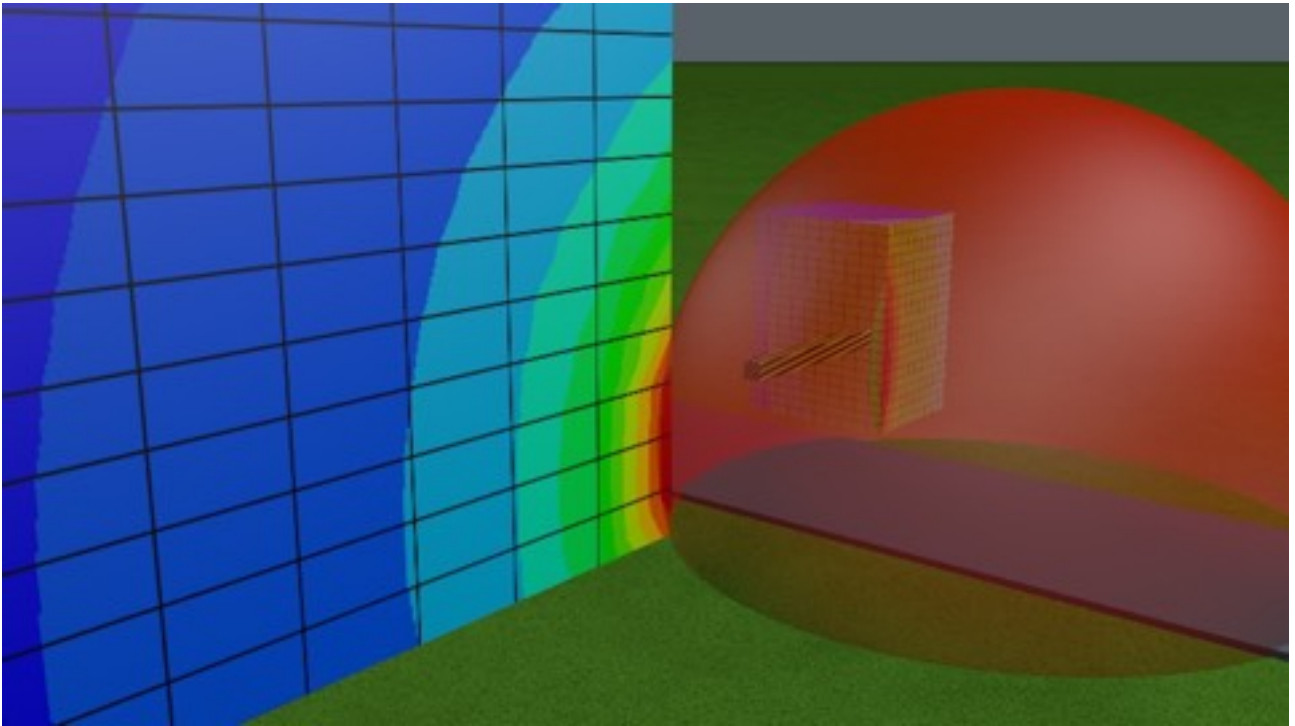
Hazardous Fragments:

MINIMUM DISTANCE FOR BLAST OVERPRESSURE EFFECTS FOR EXPLOSIONS WITH SURFACE BURST		
STRUCTURE	DISTANCE (m.)	DAMAGE
Human		100% Dead
		Significant human lethality
		50% Lung Damage
		Temporary threshold ear damage
Aircraft		Control surface or other minor damage
		Major repair
		Complete destruction
Glass windows large and small		Shattering, occasional frame failure
		Severe frame failure
Wood frame structures		Roof rafters cracked
		Studs and sheathing cracked
		Collapse
Concrete block or brick wall, 8-12 inches (unreinforced)		size 1 > severe damage shattering
		Collapse
Reinforced concrete walls		Moderate cracking
		Severe spalling/wall displacement
		Concrete shatters, bare steel remains
		Complete destruction
Liquid storage tanks (unpressurized)		Slight damage
		Severe damage
		Collapse
Vehicles/trailers		Complete destruction
Heavy machinery (generators, compressors, etc)		Moderate damage
		Complete displacement
		Destruction
Loaded rail cars		Overturning
Steel towers		Blown down

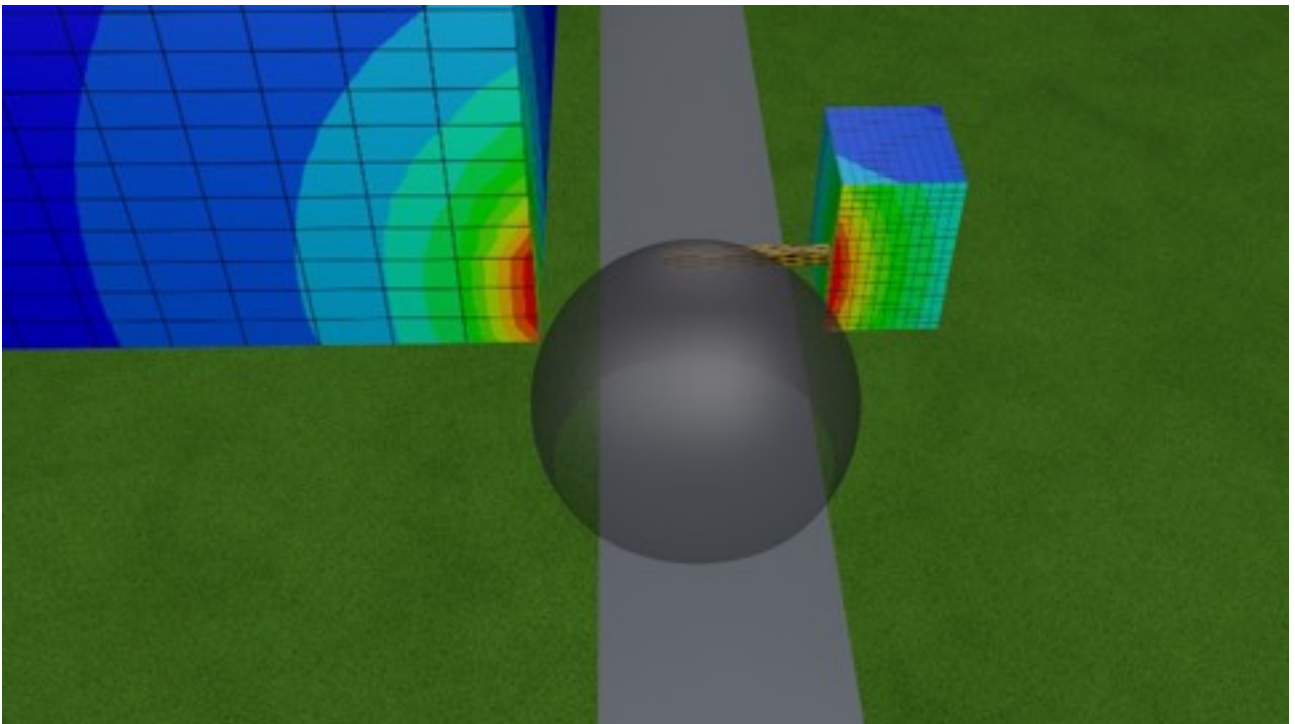
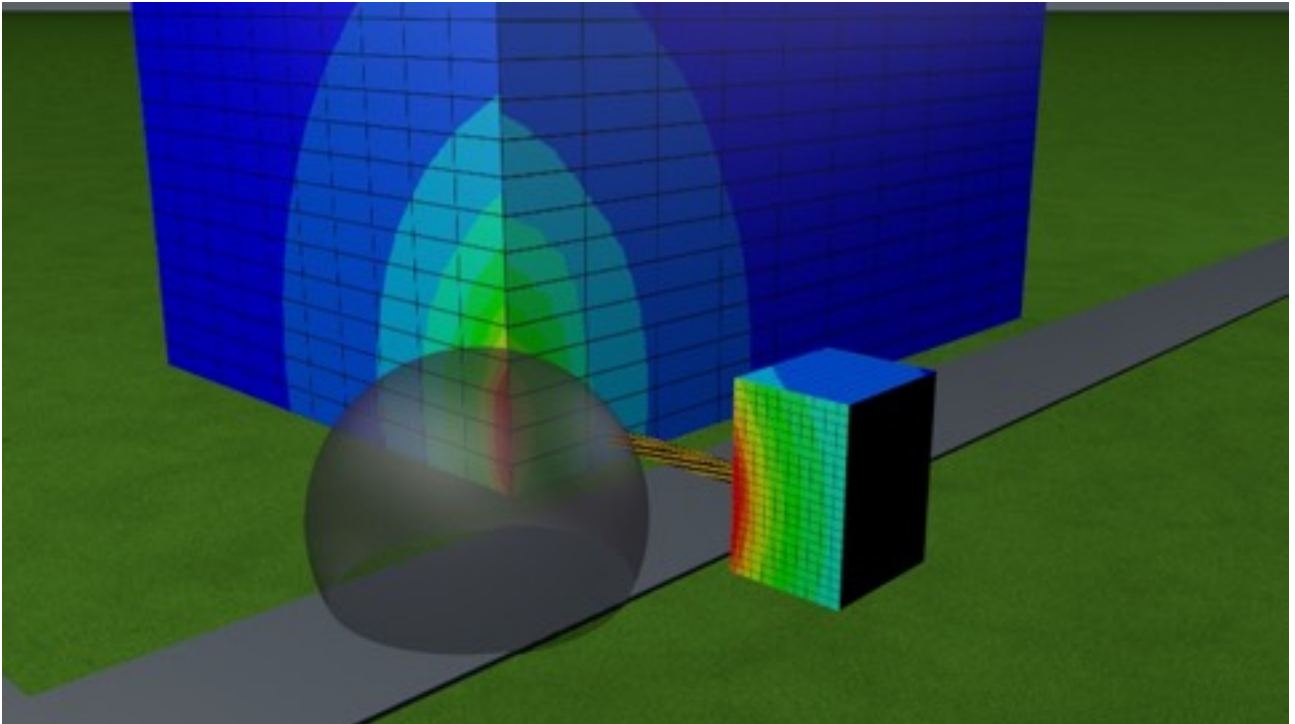
Structural Damage



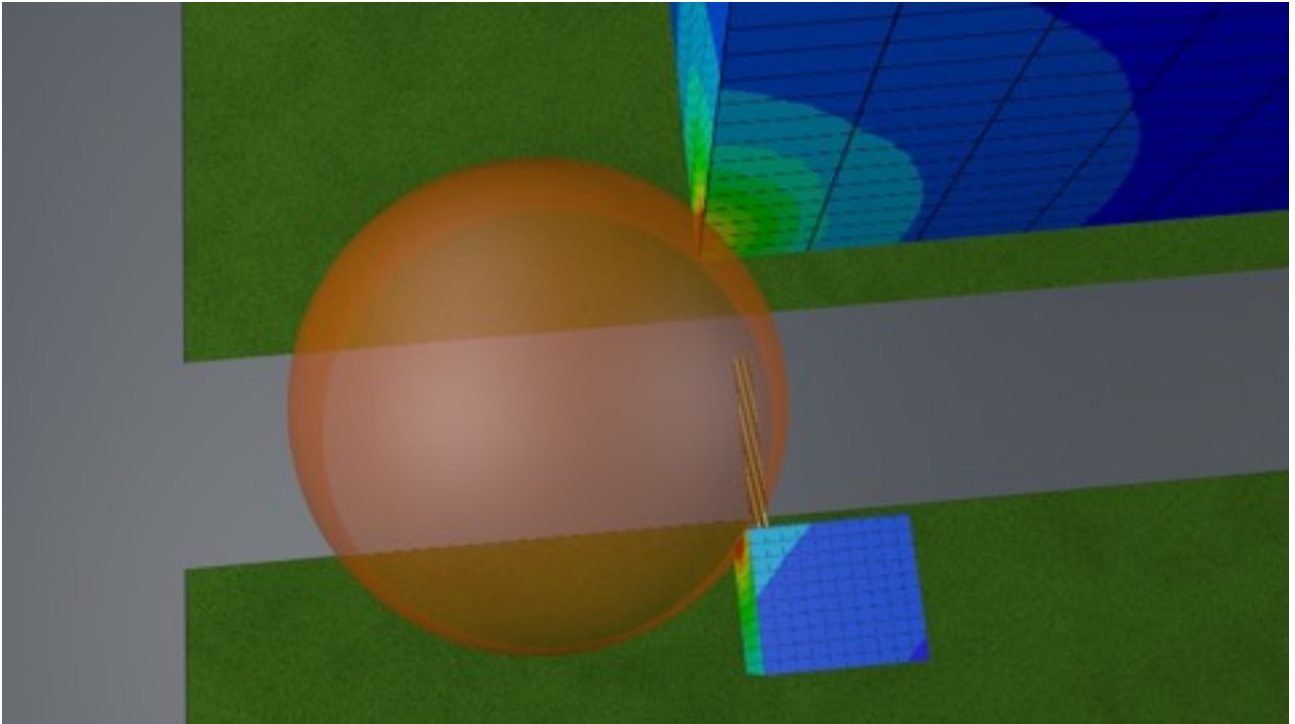
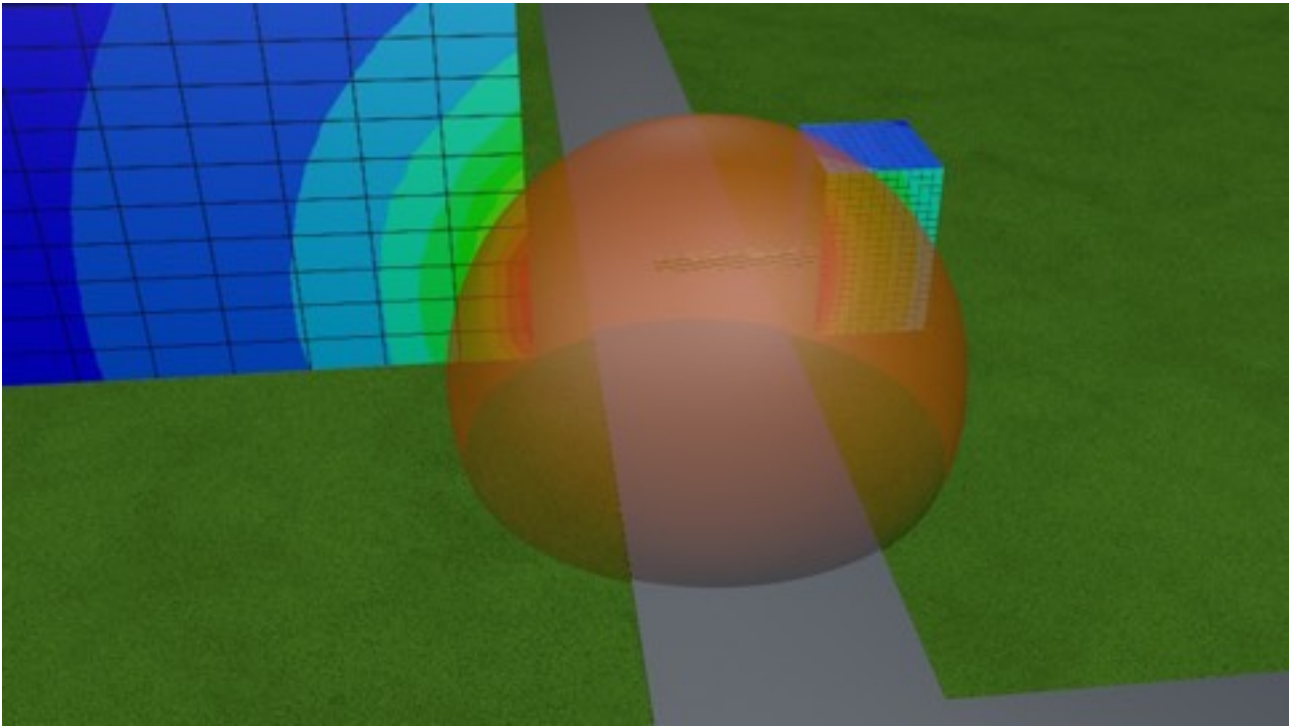
Structural Damage



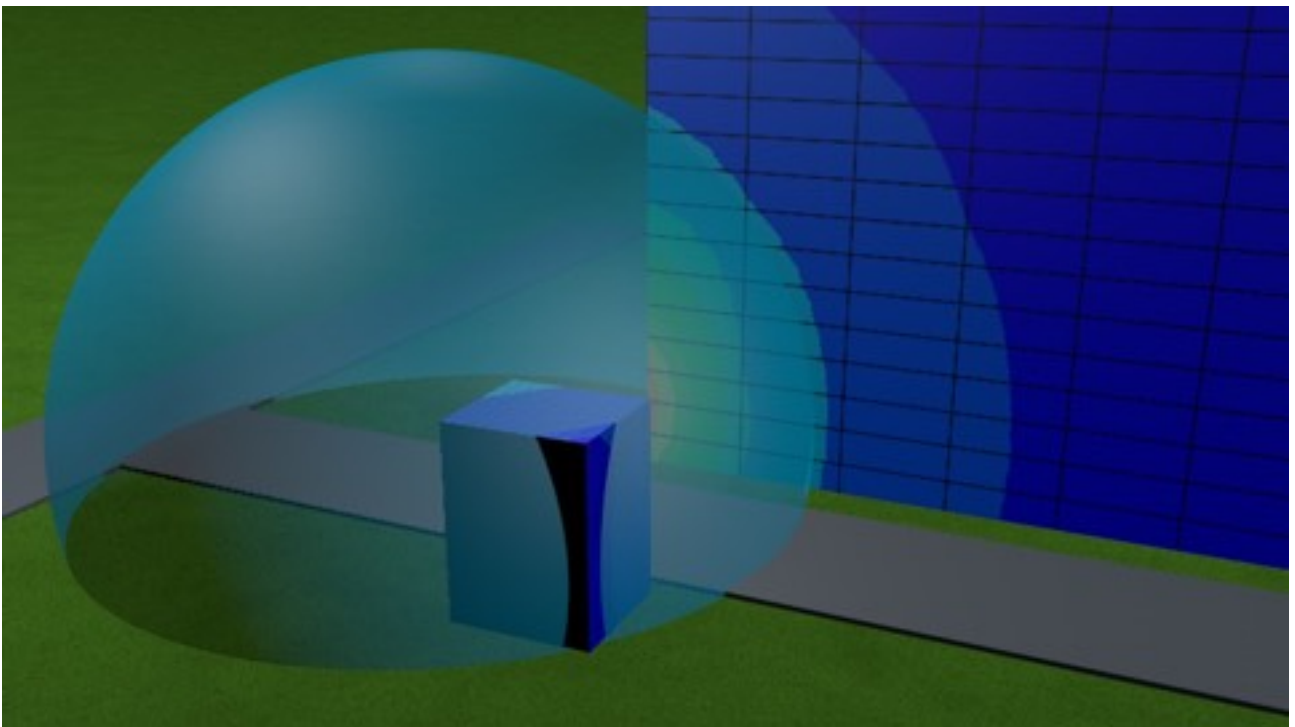
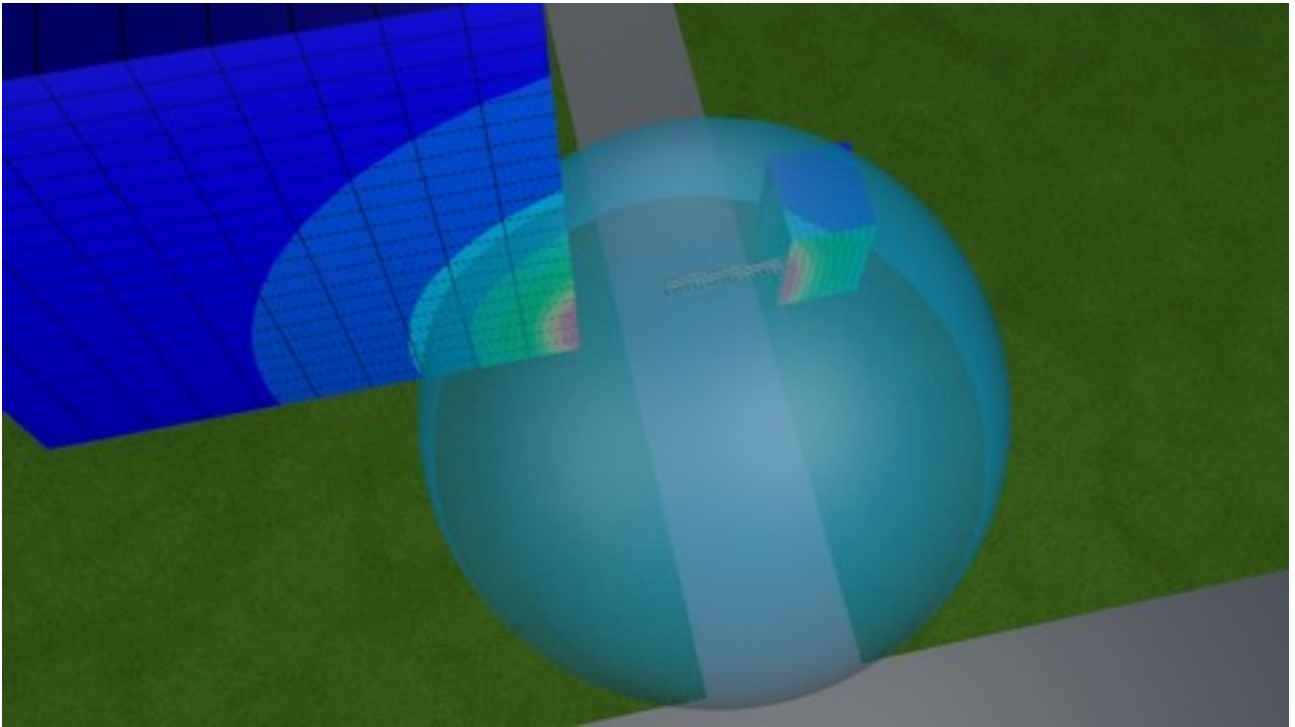
50% Dead



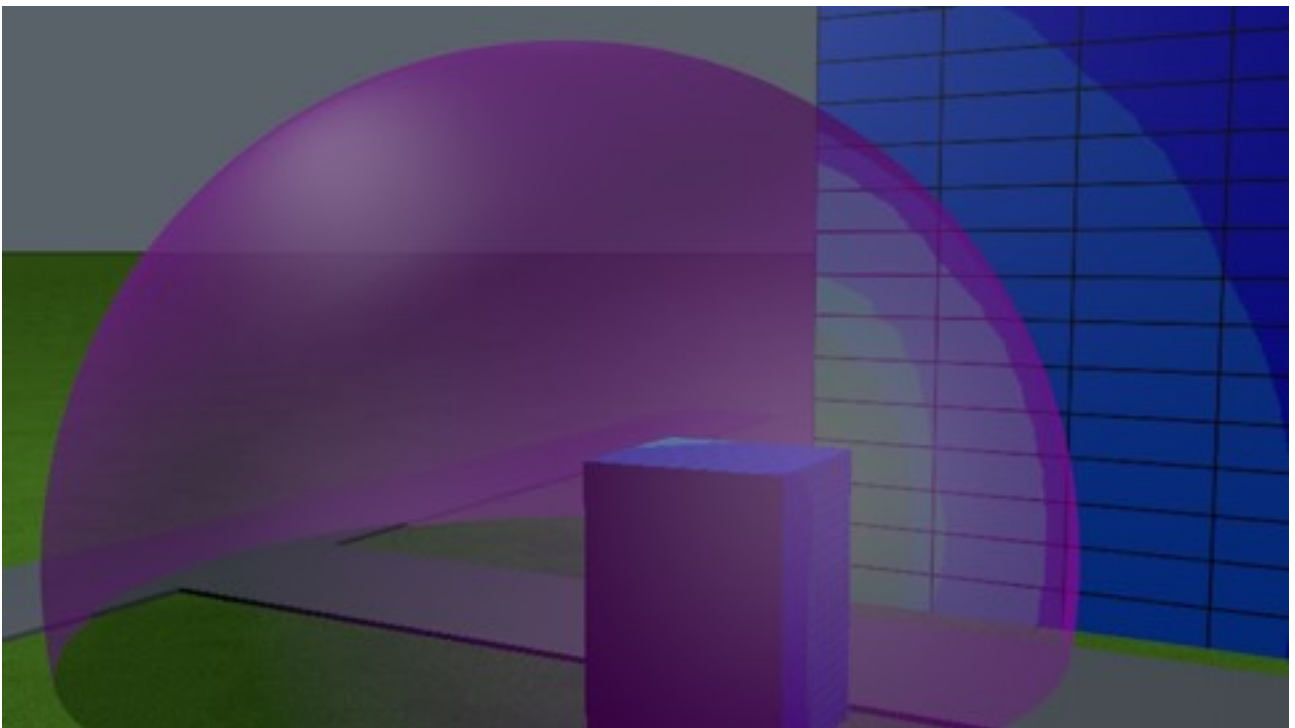
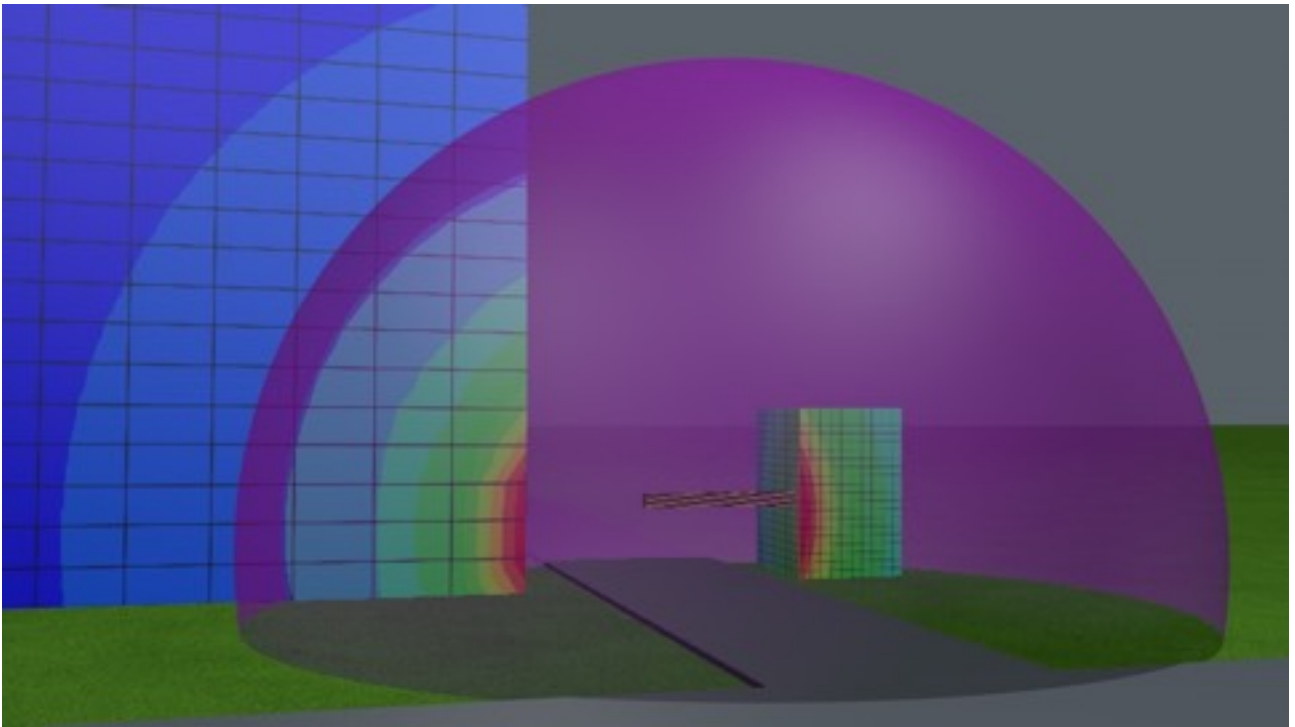
50% Lung Damage



50% Ear Damage



Glass Damage



Fragmentation

