

DEMRON™

IED/RDD/RAD SHIELD BALLISTIC



High Energy Nuclear / Ballistic IED RDD Shield

Reducing the area of radiation is one of the most effective means of radiation protection. Radiological Dispersion Devices (RDD) or dirty bombs, if left unshielded, can emit radiation to a large area of the population. In this scenario, a large amount of radioactive material (ie Cesium 137 or Cobalt 60) is emitting radiation upwards of one mile. Since area is measured as 3.14 times radius square, with the population density of New York City*, made with Demron™ nearly 222,940 people can be affected. With only one RST High Energy Nuclear/Ballistic IED RDD Suppression Shield, the radius of radiation can be reduced 50% to 70%; thereby reducing the affected population 75% to 91%. This would have a significant impact by allowing the first responder to conduct rescue operations and allow for a more orderly evacuation.

*Assumes density population of 71,000 per square mile.

Standard Features

- Made with Demron™ fabric tested for effectiveness by several DOE labs
- High Gamma Energy suppression, Cs 137 reduction up to 70%
- Unsurpassed Fragmentation Protection (V50 rating of >5426 ft/s for 2gr, 5234 ft/s for 4gr, >4866 ft/s for 16gr, 3952 ft/s for 17gr, 2721 ft/s for 64gr, and 1979 ft/s 9mm)
- Level IIIA ballistic protection STD 0101.04
- Reduces RF transmission
- Shield can be used as a suppression blanket for IED's, RDD's, and RAD's
- 1000 denter Cordura® outer covering, high-strength abrasion, flame and acid resistant outershell
- Easily deployed in field, handles for ease of use
- Non-ballistic shield also available
- 36" x 30"
- Available in black and red

Source	Type	Energies	Dose Redn (%)	Blanket
50 kvp	X-ray	50 kv	≥ 91%	≥ 99%
75 kvp	X-ray	75 kv	≥ 81%	≥ 99%
100 kvp	X-ray	100 kv	≥ 75%	≥ 99%
²⁴¹ Am	Gamma (γ)	4.9% 20.8 KeV 13.3% 13.9 KeV 19.3% 17.8 KeV 35.7% 59.54 KeV	≥ 93%	≥ 99%
¹⁰⁹ Cd	Gamma (γ)	22 KeV Major 88 KeV Minor	≥ 99%	≥ 99%
¹³⁷ Cs	Gamma (γ)	0.662 MeV	65% @ 10°	92% @ 10°
⁶⁰ Co	Gamma (γ)	1.173 MeV 1.332 MeV	50% @ 20° 39% @ 30°	84% @ 20° 75% @ 30°
			46% @ 10° 33% @ 20°	N/A N/A
²²⁶ Ra	Gamma (γ)	186-610 KeV	48% @ 10° 38% @ 20°	72% @ 10° 60% @ 10°
⁹⁰ Sr/ ⁹⁰ Y	Beta (β)	546 KeV (sr) 2.27 MeV (γ)	≥ 99%	≥ 99%

