



PRESENTS THE

**BLASTGARD[®] MBR 300 BLAST MITIGATING
AND BLAST RESISTANT BOMB RECEPTACLE FOR
AIRPORT AND CHECKPOINT SECURITY**

TECHNICAL PRODUCT SPECIFICATIONS

GENERAL:

BODY	: 100% WELDED CONSTRUCTION USING AUTOMATIC MIG VERTICAL SEAM WELDERS AND MANUAL MIG CIRCULAR WELDS
EXTERIOR DIMENSIONS	: 32" OUTSIDE DIAMETER 52" HEIGHT WITH BLASTWRAP [™] TOP IN PLACE, PLUS UP TO 1 ½" LEG EXTENSIONS
INTERIOR DIMENSIONS OF METAL	: 24" INSIDE DIAMETER 31" INSIDE HEIGHT
INTERIOR DIMENSIONS OF BLAST WRAP [™]	: 20+" INSIDE DIAMETER 22" INSIDE HEIGHT
INTERIOR DIMENSIONS OF PLASTIC TUB	: 20" INSIDE DIAMETER 22" INSIDE HEIGHT
WEIGHT	: 2250 POUNDS – CART NOT INCLUDED

MATERIALS

EXTERIOR WALL, EXTERIOR BOTTOM, INTERIOR BOTTOM INTERIOR WALL	: 10 GA GALVANIZED ASTM A-569 STEEL
EXTERIOR WALL STANDARD FINISH	: WILSONART [®] VERTICAL GRADE POST FORMING PLASTIC LAMINATE OVER GALVANIZED STEEL
EXTERIOR WALL OPTIONAL FINISHES	: 10 GA TYPE 304 BRUSHED FINISH STAINLESS STEEL : PAINTED ANTI GRAFITTI COATING OVER GALVANIZED STEEL

BLAST ABSORBING LAYERS IN TRIPLE WALL CONFIGURATION	: SPECIFIED DUCTILE ASTM STEELS WITH PATENTED BLAST ABSORBING OPEN CELL MATRIX INCLUDING RECYCLED MATERIALS AND OTHER PATENTED ADDITIVES
PLASTIC TUB	: MDPE MOLDED, EASILY REMOVABLE FROM COMPARTMENT WITH OVERHEAD ROBOT WITH ARTICULATING ARM
ANCHOR FOR STATIONARY INSTALLATIONS	: 304 STAINLESS STEEL ANCHOR – ½” DIAMETER PATENTED SINGLE POINT CONFIGURATION
LEVELING FEET FOR STATIONARY INSTALLATIONS	: 1/2” DIAMETER PLATED STEEL ROD ON THERMOSET PLASTIC BASE – ADJUSTABLE
OPTIONAL TOWABLE CART FOR TRANSPORTABLE INSTALLATIONS	: PAINTED STRUCTURAL STEEL CART WITH LARGE SOLID URETHANE TIRES AND TOW BOLTS FRONT AND REAR CAPABLE OF MOVEMENT OVER 4” CURBING
BLASTWRAP™ PASSIVE BLAST MITIGATING TECHNOLOGY	: -UNIQUE PATENTED COMBINATION OF MECHANICAL AND THERMAL BLAST EFFECTS MANAGEMENT THAT DRAMATICALLY MITIGATES SHOCK IMPULSE AND PEAK PRESSURE AND INSTANTLY QUENCHES BLAST FIREBALL IN A VERY LIGHT, FLEXIBLE AND DURABLE PACKAGE OF “GREEN” AND “COTS” MATERIALS.
BLASTWRAP® FILLED COVER FOR THE MBR 300	: THIN POLYETHYLENE EXTERIOR SELECTED FOR FRANGIBILITY DURING AN INTERNAL EXPLOSION WITHOUT ANY LARGE DAMAGING SECONDARY FRAGMENTS
PEAK OPERATING RANGE OF BLAST ABSORBING MATRIX	: MINIMUM -22C (-7.6F) TO MAXIMUM +67C (153F)
EXTENDED RANGE FOR PERFORMANCE OF BLAST ABSORBING MATRIX	: MINIMUM -22C (-7.6F) TO MAXIMUM +70C (158F)
DEGRADATION WITH TIME, TEMPERATURE, CHEMICALS, OR FIRE	: - NO PERFORMANCE DEGRADATION OVER TIME OCCURS AS LONG AS UNIT IS NOT SUBJECT TO AMBIENT TEMPERATURES ABOVE 70C (158F). - AMBIENT TEMPERATURES BELOW -22C (-7.6F) DECREASE EFFECTIVENESS OF BLAST

ABSORBING MEDIUM TEMPORARILY BUT MATRIX RESUMES PEAK RESILIENCE WHEN AMBIENT RISES ABOVE -22°C (-7.6°F) THRESHOLD.

- THERE IS NO EVAPORATION OF MOISTURE POTENTIAL IN THE BLAST ABSORBING MATRIX THAT COULD DETERIORATE ITS EFFECTIVENESS
- THE BLAST ABSORBING MATRIX IS TOTALLY CONTAINED WITHIN A 100% WELDED STEEL CONSTRUCTION DEPRIVED OF OXYGEN FOR COMBUSTION AND SHOULD NOT PRESENT A HAZARD. THE FLASH POINT OF LESS THAN 5% OF VOLUME IS ABOVE 337°C (550°F)
- BLAST WRAP® DOES NOT DETERIORATE FROM EXPOSURE TO AIR OR MOISTURE IN THE AIR.
- BLAST WRAP® REMAINS EFFECTIVE AT AMBIENT TEMPERATURES

EXPOSURE TO DEGRADING PHENOMENA AND OTHER INFORMATION

- : -IMMERSION IN WATER MAY CHANGE STEEL PROPERTIES AND EFFECT OPERATION
- CONTINUOUS EXPOSURE TO SALT SPRAY DEGRADATION MAY BE MINIMIZED BY USE OF STAINLESS STEEL EXTERIOR AND ROUTINE MAINTENANCE OF GALVANIZED STEEL
- ULTRAVIOLET RAYS FADE LAMINATES AND PAINTED SURFACES
- THE BLAST MITIGATING COVER WHICH IS MADE WITH UVR PLASTIC WILL FADE OVER LONG PERIODS OF AIR AND SUN EXPOSURE.
- LAMINATES WILL DETERIORATE FROM EXPOSURE TO SUN AND BECOME BRITTLE IN EXTREMELY LOW TEMPERATURES BUT MAY ALSO BE REPLACED IN THE FIELD BY CONTRACTORS SKILLED IN LAMINATES.
- LACQUER THINNER IS USED TO REMOVE LAMINATES AND WILL BREAK GLUE BOND
- PAINTED SURFACES WILL SCRATCH AND MAR FROM CONTACT WITH HARD OBJECTS BUT CAN BE REPAIRED IN THE FIELD
- STAINLESS STEEL OUTER SURFACES NEED TO BE BUFFED TO MAINTAIN APPEARANCE
- OTHER CHEMICAL EXPOSURE DEGRADATION OR REACTION, IF ANY, IS UNKNOWN AT THIS TIME