

# INNOVATION AND ADDED VALUE FOR PENTAGON CLIENTS

## Blast Mitigation and Storm Protection Anchoring Systems

### PENTAGON ELITE™ ANCHORING

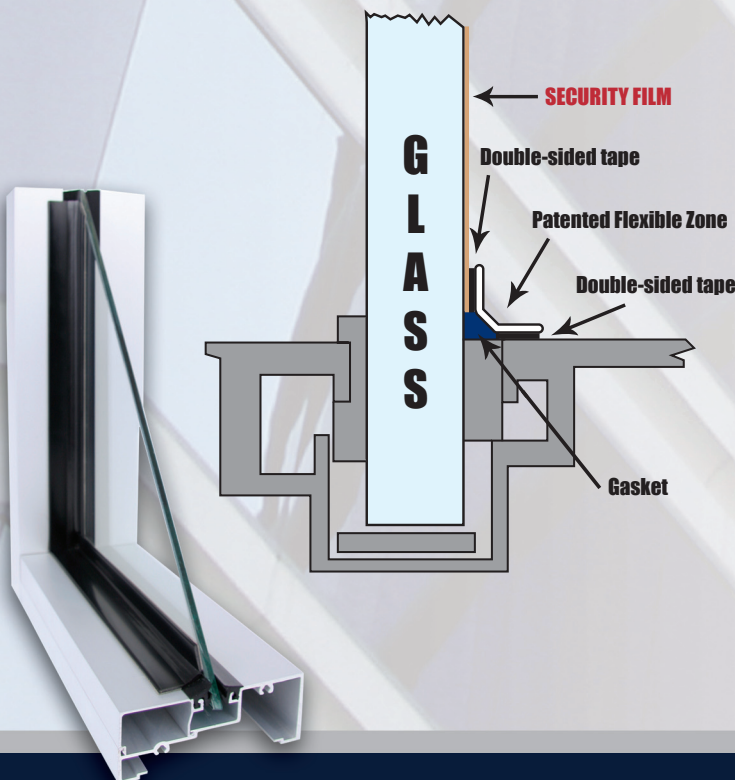
- Tested to ISO 16933 Standard
- 8.52 psi overpressure and 45.13 psi msec
- 8 Mil. Safety Film on 1/4" Annealed Glass

### EXPLOSION DATA

- 220 pounds of TNT (equivalent)
- 100.75 feet from Test Piece
- TNT Reaction Rate = > 22,500 feet per second
- Produces a 1,900 Ft. Lbs. Blast Wave moving at > 1,135 feet per second
- Achieved GSA Class 3A Rating - Protection Level = High

### ASSET MANAGEMENT AND PROJECT MANAGEMENT SERVICES

- System Developments and Upgrades
- Scheduled Care and Maintenance of Client Assets
- Proactive - Inspections and peel tests



PVC Compound Reference		WP55NBR40
Description		Plastic PVC Compound
Application		Soft Extrusion PVC Compound containing 40phr of Acrylonitrile Butadiene Rubber
Property	Typical Result	Test Method
BSS	85°	BS2782 365A 6mm thick test piece
Shore A	55°	
Specific Gravity	1.22	
Elongation at Break	430%	
	10.5M Pa	
Congo Red Stability at 180° C	90 Mins Min	
Processing Conditions	Temp	Description
		Rigid PVC Extrusion Compound
Zone 1 (Hopper End)	165° C	Application:
Zone 2	170° C	Trunking and Conduit to BS4607
Zone 3	175° C	
Die	180° C	
Properties	Unit of Measurement	Typical Test Results based on BS2782 Methods
Tensile strength @ 50mm/min	Mpa	41.4
Softening Point (Vicat, 5kg load)	kg/m³	1,430
Water Absorption BS2782:430A	% (m/m)	0.08
Oxygen Index Value	%	40 Minimum
Flammability		UI 94 Class V-O

\* Rating obtained on 1.5mm and 3.0mm thick pressed plaque using UL method. Approval can be obtained from Underwriters Laboratories Inc. on the finished product.



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## Pentagon Elite™ Technical Product Specifications VHB Adhesive

Acrylic Tape - Very High Bond (VHB)	Unit of Measurement	Technical Value
Carrier		Acrylic Foam
Adhesive Type		Acrylic
Color		Grey
Thickness	(mm)	1.1mm
Density of Foam	kg/m8	850
Release Liner		RedPE
180° Peel Adhesion ASTMD-330	g/cm2	4,400
Tension Adhesion T Block Test ASTMD-897	g/cm2	9,800
Dynamic Sheer ASTMD-1002	g/cm2	5,600
Temperature Resist (Short Term)	° C	200
Temperature Resist (Long Term)	° C	150
Low Temperature Resistance	° C	-30
UV Resistance		Good
Storage Conditions		Dry, well ventilated with reasonably consistent temperature of (circa) 20° C. Protect from continuous exposure to direct sunlight.
Application		The product should be applied to clean, dry surfaces.



## BATF Explosive Standards

ATF	VEHICLE DESCRIPTION	MAXIMUM EXPLOSIVE CAPACITY	LETHAL AIR BLAST RANGE	MINIMUM EVACUATION DISTANCE	FALLING GLASS HAZARD
	Compact Sedan	500 Pounds 227 Kilos (In Trunk)	100 Feet 30 Meters	1,500 Feet 457 Meters	1,250 Feet 381 Meters
	Full Size Sedan	1,000 Pounds 455 Kilos (In Trunk)	125 Feet 38 Meters	1,750 Feet 534 Meters	1,750 Feet 534 Meters
	Passenger Van or Cargo Van	4,000 Pounds 1,818 Kilos	200 Feet 61 Meters	2,750 Feet 838 Meters	2,750 Feet 838 Meters
	Small Box Van (14 Ft. Box)	10,000 Pounds 13,636 Kilos	300 Feet 91 Meters	3,750 Feet 1,143 Meters	3,750 Feet 1,143 Meters
	Box Van or Water/Fuel Truck	30,000 Pounds 13,636 Kilos	450 Feet 137 Meters	6,650 Feet 1,982 Meters	6,650 Feet 1,982 Meters
	Semi-Truck	60,000 Pounds 27,273 Kilos	600 Feet 183 Meters	7,000 Feet 2,134 Meters	7,000 Feet 2,134 Meters

**HELPING TO SAVE LIVES, PROTECT PROPERTY AND REDUCE INJURY**