



## **BMT AllergyGuard Window Shield**

*Engineered with BMT NanoScreen™ Filtration Technology*

BMT **AllergyGuard** Window Shield is a high-performing functional screen on rolls that blocks or restricts a wide spectrum of unwanted airborne particles including pollen and allergens as well as fly ash, agricultural dust, coal dust, bacteria and droplets carrying many virus particles. A heavy-duty, highly durable, puncture resistant *NanoScreen™* technology product designed for window and door installation and any screened-in enclosure where protection is required.

The proprietary BMT *NanoScreen™* technology at the core of our AllergyGuard Window Shield screen forms a defensive barrier to prevent entry of these unwanted airborne particles into the home, office, workspace, or institutional and industrial facilities.

### ***AllergyGuard is an Excellent Choice For:***

- Real Estate Developers & Builders
- Individual Homeowners
- Condominium Owners
- Construction Companies
- Hotel & Hospitality Operations
- Government Agencies
- Allergy, Health & Wellness Institutions
- Architecture & Interior Design Firms
- Enclosed Greenhouse, Botanical & Sustainable Agriculture Operations
- Stables, Barns & Equestrian Facilities where Animal Allergy Defense is Required

### **KEY PRODUCT FEATURES**

- 3-layer / 160 gsm / *NanoScreen™* functional core between heavy-duty exterior screen faces
- Extremely high puncture resistance of 487 Newtons
- More than 4 times stronger than conventional aluminum window screen
- Packed on 34 lb / 59" Width easy to handle rolls for rapid delivery to any location for cut & mount
- In addition to mounting in traditional window & door frames, can be hung in workspaces and industrial spaces where protection from unwanted airborne particles is required
- Field operation mounting permits AllergyGuard to be hung or mounted by employee work teams using heavy-duty duct tape / Gorilla tape / or other improvised field attachment means / doorway entry flaps can be cut using a box knife
- Supports our environment and energy efficiency by reducing costly electricity consumption. Needless air conditioning expense can be eliminated for a significant portion of the year
- Engineered with BMT *NanoScreen™* Technology



## TECHNICAL DATA & PACKING

BMT **AllergyGuard** Window Shield products with *NanoScreen*<sup>™</sup> technology are engineered using advanced nanotechnology filtration design:

- Blocks or restricts a wide range pollen, allergens, fly ash, agricultural & coal dust, bacteria, and droplets carrying a range of virus particles.
- Excellent filtration efficiency engineered to block microscopic airborne particles in a nanofiltration mesh range of 20-800 nanometers (0.02 – 0.8 microns).
- 1 mm = 1000 microns (µm) / 1 micron = 1000 nanometers
- CDC defines the airborne droplets that carry most viruses including COVID-19 in a size range of 5,000-10,000 nanometers (*Note 1*) and most are unable to pass through BMT **AllergyGuard** filtration mesh range.
- CDC & public research now suggests that some micro virus nuclei airborne particles can be smaller (*Note 2*) and can pass through most personal protective products, so social distancing remains critical (see references).
- High strength 3-layer construction delivers superior durability
- Washable with a gentle flow of water from any garden hose or with a soft rag
- Gray exterior face with black interior face for comfortable visibility looking out
- Available in 47" & 59" Roll Widths x 164 feet per roll
- Made with BMT *NanoScreen*<sup>™</sup> Technology
- Also available with FR / Flame Retardant & Anti-Static Performance Features

### BMT AllergyGuard Window Shield

#### BMT Type 9000

Construction = 3-Layer heavy duty PVC-coated exterior face with integrated BMT *NanoScreen*<sup>™</sup> functional filtration core

Screen Weight = 170 GSM

2 Roll Width Options = 47" & 59"

Roll Length = 50 meters = 164 Linear Feet

Roll Weight / 47" Width = 12.4 kg = 27.3 lbs.

Roll Weight / 59" Width = 15.5 kg = 34.2 lbs.

Color = Outside Gray / Inside Black

FOB BMT Warehouse LA / Chicago / Dallas / New York / Lincolnton NC

Payment net 30 days from delivery

Subject to final confirmation by BMT

Just-In-Time program door deliveries from nationwide BMT warehouse locations are available under multi-month supply chain contracts. BMT trucking charges are subject to delivery destination & program volumes. Close-proximity new BMT warehouse setup is available for major program support.

## REFERENCES

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