



NOISEBLOCK™ PW275

NOISE BARRIER SYSTEMS

KINETICS NOISEBLOCK PW275 IS A LIGHTWEIGHT NOISE BARRIER WALL, PANEL SYSTEM ENGINEERED FOR ACOUSTIC AND STRUCTURAL PERFORMANCE.

Manufactured with durable, extruded rigid PVC, **NOISEBLOCK PW275** systems are designed to withstand harsh conditions, but lightweight and versatile for rooftops, and easy installation. This engineered solution offers a short lead time for production. The core of this panel is a 6-7 PCF fiberglass board.

FEATURES

- Efficient, tongue & groove (TG) installation helps to keep construction schedules on track
- Lightweight panels can be installed by hand
- Suitable for a multitude of application types
- Maintenance free & UV protected for all weather conditions
- Available in white, gray or tan

NOISEBLOCK PW275 / Noise Barrier Systems

APPLICATIONS

- In-plant industrial
- Outdoor environmental
- Residential developments
- Building rooftop screens
- Mechanical equipment yard wall systems

DESIGN DETAILS

Structural Columns:

- Standard free standing steel column designs
- 10'-0" post spacing
- Special designs available for project needs

Footings:

- Kinetics engineering team provides reaction forces at column base plates for "engineer of record" to design footings supplied by others
- Adaptable to various foundation types

Mounting:

- Structure or ground-mounted designs
- On grade or roof top applications



ABSORPTIVE (PW275-A)

- Manufactured with slots on the front face of the panel and acoustic sound absorbing media enclosed within the absorptive panel
- Proven and tested properties to consistently reduce noise
- Noise absorptive panels can be combined with reflective panels
- **Panel Dimensions:**
5.9" high x 2.75" thick
Panel lengths available up to 16'
- **Weight:** 4.3 lbs/ ft² (21 kg/ m²)



REFLECTIVE (PW275-R)

- Panels can contain a galvanized metal channel within, for added strength and reflects noise
- Structural panels provide strength to the wall by transferring forces on the barrier to the vertical posts
- The quantity of structural panels required is determined by specific wind loads, post spacing and wall height of each project
- **Panel Dimensions:**
5.9" high x 2.75" thick
Panel lengths available up to 16'
- **Weight:** 4.1 lbs/ ft² (20 kg/ m²)

ACOUSTIC TESTS

ASTM C243 — Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method:

- 0.95 NRC Rated — Absorptive Panels

ASTM E90 — Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements:

- 33 STC Rated — Absorptive Panels
- 32 STC Rated — Reflective Panels

ASTM D790 — Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials:

- Flexural Strength $\geq$ 70 MPa
- Modulus of Elasticity $\geq$ 33GPa

ASTM D4226 — Standard Test Methods for Impact Resistance of Rigid Poly (Vinyl Chloride) (PVC) Building Products:

- Impact Resistance of Rigid PVC Building Products
Results = Mean Failure energy after 2000 hours of accelerated weathering $\geq$ 80% of initial value