



W. R. MEADOWS



DATA SHEET NO. 7100-211

VIBRAFLEX® Asphaltic Panel Bridge Deck Protection Course

DESCRIPTION

VIBRAFLEX bridge deck protection course is a multi-ply, semi-rigid asphalt panel composed of a mineral-fortified asphalt core between one liner of asphalt-saturated felt and one layer of fibreglass. One liner is weather-coated and has a polyethylene film facing. It may be used in conjunction with most types of built-up dampproofing and waterproofing membranes, including liquid membranes, sheet membranes of EPDM, butyl, neoprene rubber, polyvinylchloride, as well as built-up systems. It is equally adaptable to concrete, wood, steel, and pre-stressed or precast concrete structures that require waterproofing. VIBRAFLEX is ideal for both new and remedial waterproofing applications.

USES

Developed by W. R. MEADOWS in conjunction with some of the nation's leading railroads, VIBRAFLEX provides a top-quality protection course that can be dry installed and is fully compatible with butyl sheeting and most advanced waterproofing membranes. It will withstand forces that would otherwise injure or deteriorate the membrane waterproofing material and destroy the integrity of the waterproofing system.

SPECIFICATIONS

- AREMA® Specification; Chapter 29 for Membrane Waterproofing

FEATURES/BENEFITS

- Large 1.22 m x 2.44 m (4' x 8') panels can be installed dry, permitting faster, easier installation and a savings of 40 - 60% in total installed costs when compared to plank-type products.
- Panel size results in fewer joints (90% less) which eliminates infiltration of fines and resulting damage to the waterproofing membrane when compared to plank-type products.

- Flexible dual-layer installation complies with the current AREMA® specification in Chapter 9.
- Eliminates messy hot-mopping and cold-bitumen adhesives.
- The factory-applied, weather-coated surface permits controlled ballast penetration for a secure seating position which locks the panel to the ballast for effective base stabilization.
- Backed by more than three decades of outstanding field performance and service.

PACKAGING

Thickness mm (inches)	Panel Size Meters (feet)	Weight per kg/100 m² (lb./100 ft.²)
Type 270 9.53 mm (3/8")	1.22 x 2.44 m (4' x 8')	117.94 kg (260 lb.)
Type 350 12.7 mm (1/2")	1.22 x 2.44 m (4' x 8')	158.76 kg (350 lb.)

COLOUR

Black

APPLICATION

To reduce the possible ingress and infiltration of fines and provide maximum membrane protection, VIBRAFLEX panels should be installed in two layers. The first layer is laid dry directly on the waterproofing membrane, with each sheet butted tightly to the next. The second layer is then laid with the butt joints staggered on a half-sheet module (as shown in the layout diagram) to avoid coincidental matching with the joints of the first layer. No adhesives are required when the sheets are applied in this dual-layer technique. The longitudinal dimension of the panels should be parallel to the composite slabs and structural members. VIBRAFLEX is shipped with anti-stick polyethylene sheets between each panel, making handling and installation fast and easy. Panels may be cut to size using a sharp roofer's knife.

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DUAL LAYOUT APPLICATION THEORY

This theory, shared by many railroad engineers, states that the longer the ballast is in place, the greater the degree of build up or concentration of fines at the lowest possible level; in this case, the point at which the ballast is in direct contact with VIBRAFLEX. Normal gravitational movement, vibration movement of the ballast and liquid flowing in the direction of the membrane concentrates these fines, and gradually, a crust-like surface develops on the top of the VIBRAFLEX material. Because of the staggered joint system, the fines do not work their way through the full material thickness (since only one half of the total joint area is present at any one point), so the integrity of the waterproofing membrane preserved.

PRECAUTIONS

Keep VIBRAFLEX stacked on pallets or on a smooth surface to prevent deformation before application. Do not apply VIBRAFLEX over liquid waterproofing membranes containing volatile solvents until all of the solvent has completely evaporated.

NOTE: WHERE VIBRAFLEX WILL BE LEFT EXPOSED TO SUNLIGHT, IT MUST BE PROTECTED WITH THE APPLICATION OF ALUMINUM-FIBRED ROOF COATING. SPECIFIER AND USER SHALL DETERMINE SUITABILITY OF PRODUCT FOR SPECIFIC APPLICATIONS AND ASSUME ALL RESPONSIBILITIES IN CONNECTION THEREWITH. Read and follow all directions prior to application.

2004 MASTERFORMAT NUMBER AND TITLE

07 10 00 - Dampproofing and Waterproofing

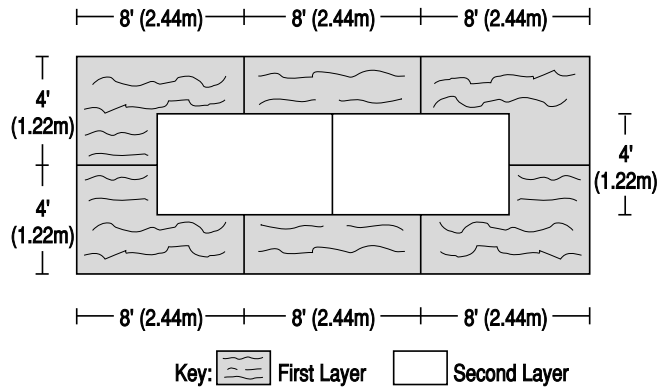
LEED INFORMATION

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