

DEXcell® & DEXcell FA® Glass Mat Roof Boards

Description: DEXcell & DEXcell FA Glass Mat Roof Boards consist of a silicone-treated gypsum core with embedded fiberglass facers on both sides. DEXcell FA Glass Mat Roof Board has a surface that is factory-primed with a non-asphaltic primer to enhance membrane adhesion. DEXcell products can be used as fire-resistant panels in fire-rated floor/ceiling designs and as a coverboard panel for roof membrane applications.

Standards: ASTM C79 and ASTM E136

Panel Application Methods:

1. **Asphalt:** DEXcell panels having a thickness greater than 1/4 inch must have a maximum panel size of 4 feet by 4 feet when applied in hot asphalt. DEXcell panels having a 1/4 inch thickness can be applied in hot asphalt regardless of panel dimension. Maintain the applicable minimum/maximum ranges for the hot asphalt at the point of application. Roof membrane base ply installation is limited to torch application when DEXcell or DEXcell FA panels are applied in asphalt.
2. **Mechanical Attachment:** When DEXcell is mechanically attached directly over a metal deck, the panel thickness must be sufficient to span the flutes of the metal deck. See published schematics for fastening frequencies. Siplast minimum fastening requirements call for 1 fastener per 3 square feet of panel area. Contact Siplast for fastening frequencies to meet specific codes/approvals.
3. **Insulation Adhesive:** DEXcell panels can be applied in Para-Stik or Parafast Insulation Adhesive, regardless of panel dimension. See published schematics for bead spacing sequences.

Membrane Application Direct to DEXcell Boards:

Hot asphalt: Not approved.

PA-311 Series and SFT Adhesive: Approved over DEXcell/DEXcell FA mechanically attached or applied in Para-Stik or Parafast Insulation Adhesive only.

Torch¹: Approved via single-burner torch. DEXcell must be primed using PA-1125 or PA-917. Torch wagons utilizing multiple burners are not recommended for application of membranes over gypsum-based products due to the increased risk of surface calcination and membrane blistering. DEXcell FA does not require supplemental priming.

Self-Adhesive: Approved over panels that are mechanically attached or applied in Para-Stik or Parafast Insulation Adhesive only. DEXcell must be primed using PA-1125 or PA-917. DEXcell FA does not require supplemental priming.

¹Siplast recommends that all practices pertaining to NRCA CERTA guidelines be followed when torching methods are employed. This includes performing a fire watch following any torch applications. Always have approved fire-extinguishing equipment nearby.