



STRONGHOLD™ KEE

Thermoplastic membrane with DuPont Elvaloy® built for high reflectivity and low maintenance

STRONGHOLD™

PRODUCT DESCRIPTION

StrongHold KEE from Bitec® is a high-performance thermoplastic roofing membrane designed for mechanically attached or adhered applications. Produced with DuPont Elvaloy® KEE and a polyester reinforced scrim, StrongHold KEE delivers built-in chemical, fire, and UV resistance. StrongHold KEE's highly reflective, low-maintenance roofing surface can save asset owners time and increase the energy efficiency of a building.

StrongHold KEE has multiple width options ranging from 40.5" to 120" that can reduce seam-welding or fasteners needed by 20% while also providing smaller sizes to reduce waste and manage complex roof outlines. StrongHold provides a complete line of fastener options for mechanically attached applications, and adhered applications can be fully bonded using StrongHold's Multi-Purpose Sealant Adhesive (MPSA). StrongHold KEE is also lightweight, making it an attractive solution for re-roofing projects where a tear-off can be avoided, saving landfill waste, and helping a project meet sustainability objectives.

BENEFITS

- Contractor friendly
- Sheet width options save labor time
- Reduced seams & fasteners for better water-proof protection
- Chemical resistance
- Fire resistance - meets UL Class A fire rating
- Exceeds ASTM D4434 Type III standard for PVC roofing
- Meets & exceeds FM 1-90 wind uplift requirements
- High UV reflectance for energy efficiency (white version)
- Low temperature flexibility
- Thermally stable
- Available in white, tan & grey

APPLICATION

Review Application Guidelines or consult your Bitec representative for specific application guidelines based on the details of your project.

StrongHold KEE membrane is thermoplastic in nature and is certified as conforming to the requirements of ASTM D4434 Type III standard specification for Polyvinyl Chloride (PVC) sheet roofing and IBC1504.7.

| Technical Data | StrongHold KEE |
|---|---|
| Color | White, Tan, Grey |
| Thickness (ASTM D751) | 0.60" nominal |
| Thickness over Scrim (ASTM D7635) | 0.31" |
| Roll Size | 40.5" x 100' 60" x 100' 81" x 100' 120" x 100' |
| Permeance (ASTM E96) | .003 Perms |
| Breaking Strength (ASTM D751) | 298x278 (minimum, lbf/in) |
| Seam Strength (ASTM D751) | 286 lbf |
| Elongation (ASTM D751) | 35% x 34% |
| Heat Aging (ASTM D3045) | >90% |
| Dimensional Stability (ASTM D1204) | 0.3% |
| Low Temperature Flex (ASTM D2136) | PASS @ -40°F |
| Tear Strength (ASTM D751) | 89 x 109 |
| Fungi Resistance (ASTM G21) | PASS |
| Static Puncture Resistance (ASTM D5602) | PASS |
| Dynamic Puncture Resistance (ASTM D5635) | PASS |
| Dimensional Change (ASTM D1204) | 0.25% (maximum % at 176°F, 6 hrs) |
| Water Immersion (ASTM D570) | 1.20% |
| Accelerated Weathering (ASTM G155) | PASS |
| Solar Reflectivity (ASTM C1549) | 82% (White) 69% (Grey) 68% (Tan) |
| Emissivity (ASTM C1371) | .91 (White) .86 (Grey) .87 (Tan) |

