



## Thermoplastic Single Ply and Multi-Ply Roofing Systems

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### APPROVED COMPONENTS LISTING

The below listed materials are approved for use in conjunction with Flex FB Elvaloy®, Flex MF/R Elvaloy® and Flex MF/R PVC Roofing Systems for compliance with the standard five (5) year guarantee and optional ten (10) year, fifteen (15) year, and twenty (20) year guarantee programs.

**1. Flex Roofing Membranes:**

All widths are approved.

<u>Type &amp; Thickness</u>	<u>Color</u>	<u>Usage</u>	<u>Guarantee Length</u>
Flex FB, FB Plus, FB 120 Elvaloy® 45 mils, 60 mils, 80 mils	White or Gray	All	5, 10, 15, & 20 years
Flex FB 100 Elvaloy® 60 mils	White or Gray	All	5, 10, 15, & 20 years
Flex MF/R, MF/R Plus MF/R 120 Elvaloy® 45 mils, 60 mils, 80 mils	White or Gray	All	5, 10, 15, & 20 years
Flex MF/R PVC 50 mils, 60 mils, 80 mils	White or Gray	Adhered, Mechanically Attached	5, 10, & 15 years
Flex Flashing Membrane Reinforced 45, 60, and 80 mils Non reinforced 45 mils	White or Gray	Flashings only	Concurrent with Field Membrane
Flex 6" Trim Strip 45 mils min.	White or Gray	Trim Work	Concurrent with Field Membrane
Flexclad Metal	White or Gray	Where Required	Concurrent with Field Membrane

## 2. Insulation:

- A. Polyisocyanurate faced roof boards: per Federal spec. HH-I-1972/GEN and HH-1-1972/2, ASTM C 1289, Type II, Class 1, Grade 2 (20 psi) or Grade 3 (25 psi) minimum thickness 1" nominal.  
Flex ISO II, Flex ISO III, Flex ISO II Tapered, and Flex ISO III Tapered
- B. Extruded polystyrene boards: ASTM C 578 Type X (18 psi) or Type IV (25 psi), CAN/ULC S701, Type 3, Nominal board thickness 2"
- C. Molded expanded polystyrene boards: ASTM C578-85, Type 1, minimum density 0.9 lbs./cu.ft., Nominal board thickness 1"
- D. Perlite Insulation Board: ASTM C 728 Type I or Type II, nominal board thickness 1/2"
- E. Lightweight roof fills: perlite, vermiculite, cellular concrete and gypsum. Used in conjunction with Flex approved separation layers.
- F. Wood fiber boards: ASTM C 208 Type II, Grade 1 or Type II Grade 2, nominal board thickness 1/2"
- G. Sprayed polyurethane foam: minimum 2" thick and minimum 2.0 lbs./CF density when used in conjunction with Flex approved separation layers and insulation boards.

## 3. Asphalt:

- A. Hot steep asphalt – ASTM D 312, Type III and Type IV
- B. Polymer Modified Asphalt: ASTM D 6152 , Flex SEBS200 Modified Rubberized Asphalt

## 4. Fasteners:

- A. Metal /Wood Decks: screw type fasteners treated with CR 10 corrosion resistant coating. Required pull out value of minimum 420 lbs. in 22 gauge steel deck to be applied in conjunction with a Factory Mutual approved pattern:
  - 1. Flex Standard Steel/Wood Deck Fastener and Plate
  - 2. Flex XHD Fastener and Plate
  - 3. Flex SXHD Fastener and Plate
- B. Structural Concrete Decks: Minimum compressive strength of 2500 psi, Density of 150 lbs./cu/ft. Required pull out value of minimum of 600 lbs.
  - 1. Flex CD-10 Concrete Fastener and Plate
  - 2. Flex Fluted Nail Concrete Fastener and Plate

C. Lightweight Insulating Concrete: Density of 20 to 40 lbs./cu.ft., Minimum Compressive Strength of 200 psi. Required pull out value of minimum of 300 lbs.

1. On steel deck see 4A above.
2. Flex NTB Fastener and Plate
3. Flex Lite Deck Fastener and Plate
4. Flex CR Base Sheet Fastener (pull out value 40 lb. min.)

D. Cementitious Wood Fiber, Gypsum

1. Flex NTB Fastener and Plate
2. Flex Lite Deck Fastener and Plate

## 5. **Adhesives:**

A. Caulking: Silicon, polysulfide or polyurethane caulking, exterior grade for caulking, surface reglets and vent pipe details.

1. Mameco, Vulkem 116, Polyurethane
2. Sonneborn, NP1
3. BOSTIK, Chem Caulk

B. For filling pitch pans: Flex Pourable Sealer or as approved by Flex Technical Services Department.

C. Flashing Adhesive: as supplied by Flex Membrane for laminating flashing to vertical surfaces.

D. Substrate Adhesive: as supplied by Flex Membrane for adhering FB or FB 100 to approved substrates.

E. Flex Deck Insulation Adhesive: as supplied by Flex Membrane for adhering insulation board to approved substrates.

F. Flex Modified Adhesive: as supplied by Flex Membrane for adhering modified bitumen membranes to insulation, recover boards or to modified bitumen base sheets.

## 6. **Nailers:**

A. Provide lumber for support or attachment of flashings, edge metals, and accessories. Include roof top equipment bases curbs and support bases.

B. Number 3 or Standard Grade in accordance with ALSC NGR

C. Preservative Treated in accordance with the requirements of AWPAC2

## **7. Separation Layers:**

All separation layers are for use over insulation and below membranes with Mechanically Fastened and Ballasted systems. Note: Red rosin paper and sheet polyethylene are not approved.

- A. Flex Separator Sheet
- B. Flex FR-10 and FR-50 Fire Retardant Slip sheet
- C. Flex Foil Barrier Slip Sheet – for use over coal tar pitch roofs.
- D. Flex Rockwool Mat
- E. Flex Green Guard 3/8” PB6W Fan Fold Roofing Recovery Board
- F. Georgia Pacific Corporation: Dens Deck, Dens Deck Prime

## **8. Adhered System Components:**

- A. Flex Re-Cover Board: asphaltic fiberglass recover board for use over most insulations or BUR roofs
- B. Flex 80 mil S/S Base Sheet: for use as the base or first ply in Flex’s high performance Built Up Elvaloy® or Modified Flex Roof Systems.
- C. Premium Flex Ply Roofing Felt: fiberglass Type VI roofing felt. For use in Flex’s high performance Built Up Elvaloy® or Modified Flex Roof Systems.

## **7. Edge Termination Components**

- A. Flex Clad Metal: for custom fabrication of a hot air weldable edge metal
- B. Flex Lock FLT Roof Edge: low profile FM rated factory fabricated system
- C. Flex Lock FLFR Roof Edge: economical factory fabricated edge trim
- D. Flex Lock FLS Roof Edge: decorative FM rated factory fabricated system
- E. Flex Cap Coping: specially designed for anchoring membranes at parapet walls

## **8. Specialty Components**

- A. Flex Preformed Inside and Outside corners
- B. Flex Preformed Pipe Boots

- C. Flex Retrofit Drains with PVC Coated Flange
- D. Flex Walkway Pad
- E. Flex Insulvent with PVC Coated Flange
- F. Flex Snowguard PVC Coated
- G. Flex 2" Standard Barbed Plate, 2 3/8" XHD Plate, and 2 3/4" SXHD Plate
- H. Flex CR Base Sheet Fastener
- I. Flex Lip Termination Bar, Flex Flat Termination Bar
- J. Flex Standard Screws, Flex XHD Screws, Flex SXHD Screws
- K. Flex Inter-Locking Pitch Pocket
- L. Flex Split Pipe Boots
- M. Flex Preformed Curb Flashing

**9. Ancillary Components:**

- A. Leister Varimat Automatic Welding Machine
- B. Leister Triac Hand Held Welding Tool
- C. Flex Hand Held Silicon Seam Roller
- D. Flex Seam Probe