

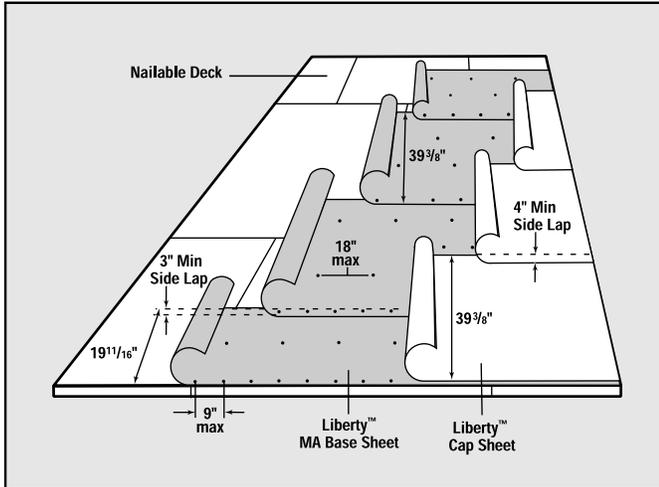
# Liberty™ SBS Self-Adhering Construction Specification N-1-1-LC

## Specification Sheet

Updated: 1/03



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From North America's Largest Roofing Manufacturer™*



### Deck - Nailable:

Plywood, OSB, and wood plank

### Applicable Slope Range:

1/4" to 6" per foot; See instructions specific to slopes between 1/2" to 3" per foot for additional fastening requirements.

### Materials

- One ply of Liberty™ MA Mechanically Attached Base Sheet (Liberty MA Base Sheet)
- One ply of Liberty™ Cap Sheet
- Matrix™ 205 System Pro SBS Sure-Grip™ Adhesive
- Fasteners – Nails with 1" diameter/square metal heads
- Approximate weight per square – 140 pounds (63.5 kg)

### Application Instructions:

#### General:

1. Ponding areas must be eliminated from the roof.
2. Install Liberty membranes in dry, 45°F(7°C) and rising weather. Heat weld the side laps of the Liberty Cap Sheet at temperatures below 60°F (16°C)
3. Decks must be clean, dry, smooth and structurally sound.
4. Any holes or voids greater than 1/4" (6mm) width, must be covered with minimum 32 gage sheet metal.
5. Recommendations in the current GAFMC Application and Specifications Manual apply.

### Application of Roofing Membrane

#### Liberty MA Base Sheet Installation:

*Note: No more Liberty MA Mechanically Attached Base Sheet should be installed than can be covered with Liberty Cap Sheet on the same day. Do not phase.*

1. Starting at the low point on the roof, mechanically attach a 1/2" width sheet of Liberty MA Mechanically Attached Base Sheet parallel to the edge of the roof. The sheet should be installed with the lay line on the high side. (Run the first sheet over the edge as required for the edge detail.) Continue up the roof with full width sheets overlapping, shingle fashion, the previous course by a minimum of 3 inches (76 mm). If wind uplift resistance is a concern, apply a bead of Matrix 205 System Pro SBS Sure Grip Adhesive in the sidelap of the MA Base Sheet before closing. Mechanically fasten with three rows of fasteners. Place the first row (on the seam) 1" (25mm) from

the leading edge and on 9" (229mm) centers. Locate the second row of fasteners 14" (356mm) from the leading edge on 18" (457mm) centers. The third row of fasteners shall be 26" (660mm) from the leading edge on 18" (457mm) centers. The centers for the second and third row fasteners should be staggered.

#### Liberty Cap Sheet Installation:

Prior to the installation of the Cap Sheet, install primed gravel stops, and other flanged perimeter metal and penetration flashings in a 1/16" – 1/8" troweling of Matrix 205 Sure Grip Adhesive. Nail flanges as needed. Apply a troweling of Matrix 205 Sure Grip Adhesive on top of the flanges to soundly adhere the Cap Sheet to the flanges.

**First Course** - Starting at the low edge of the roof, install full width sheets of Liberty Cap Sheet as follows:

*Do not remove the selvage edge release film until required. See "Subsequent Courses", Step 5 below.*

1. Align manageable lengths (a length that allows a wrinkle and bubble free installation) of Liberty™ Cap Sheet with the edge of the roof. Position the Cap Sheet selvage edge on the high side of the roof to assure water flow over the side laps.
2. Fold the sheet in half, (away from the edge of the roof) along its length, exposing approximately 20" (508mm) of the bottom of the sheet.
3. Remove the exposed release film, leaving 8" at the start of the roll where the Cap Sheet will overlap the preceding sheet.
4. Working from the center of the length of Cap Sheet, allow the Cap Sheet to roll onto the Liberty MA Base Sheet being careful to avoid wrinkles and trapped air and while maintaining proper alignment with the edge of the roof.
5. Firmly hand press the sheet to avoid wrinkles and trapped air as the Cap Sheet adheres to the Liberty MA Base Sheet.
6. Now fold the other half of the sheet back on itself exposing the remaining release film. Apply a bead of Matrix 205 Sure-Grip Adhesive along the Liberty MA Base Sheet edge step to minimize the potential for a blister or water entry. Remove the release film (except for the 8" at the end of the roll for the endlap) and roll the Cap Sheet in place working from the center of the sheet outward towards the ends of the sheet.
7. Firmly hand press the sheet to avoid wrinkles and trapped air as the Cap Sheet adheres to the Liberty MA Base Sheet.

**Endlaps** - Where additional lengths of Liberty Cap Sheet are added in the same course, overlap the previous sheet a minimum of 6" (152mm).

1. Complete the overlapping end joint by pulling the overlapping end back and troweling 1/16" – 1/8" (2 – 3mm) thick Matrix 205 Sure-Grip Adhesive to the granule surface of the underlying sheet. At the selvage edge of the overlapped sheet, remove only enough release film to accommodate the end lap. On the upper sheet, cut the selvage edge at a 45 ° angle to provide a tapered transition at the "T" joints formed by succeeding courses of the Cap Sheet. See "T"- Joint Selvage Cut drawing.
2. Remove the release film from the overlapping Cap Sheet and lay it into the Matrix 205 Sure-Grip Adhesive. Firmly press and roll this overlap seam, squeezing out a small bead of adhesive at the end lap edge.
3. Offset Cap Sheet end laps in adjacent courses by a minimum of 36" (914mm).

**Subsequent courses** – install additional courses of Liberty™ Cap

Sheet as follows:

1. Position the Cap Sheet to overlap the previous course by the selvage edge width.
2. Fold the sheet in half, (away from the selvage edge of lower sheet) along its length, exposing approximately 20" (508mm) of the bottom of the sheet.
3. Apply a bead of Matrix™ 205 Sure-Grip™ Adhesive along the top edge of the lower Cap Sheet being overlapped and at any selvage edge "T" joints to minimizing the potential for a blister or water entry.
4. Remove the exposed release film, leaving 8" at the start of the roll where the Cap Sheet will overlap preceding the previous sheet.
5. Now remove the selvage edge release film from the lower Cap Sheet being overlapped.
6. Working from the center of the length of Cap Sheet, allow the Cap Sheet to roll onto the Liberty™ MA Base Sheet being careful to avoid wrinkles and trapped air and while maintaining proper alignment with the selvage edge.
7. Firmly hand press the sheet to avoid wrinkles and trapped air as the Cap Sheet adheres to the Liberty MA Base Sheet.
8. Now fold the other half of the sheet back on itself exposing the remaining release film. Remove the release film (except for the 8" at the end of the roll for the endlap) and roll the sheet into place working from the center of the sheet outward towards the ends of the sheet.
9. Firmly hand press the sheet to avoid wrinkles and trapped air as the Cap Sheet adheres to the Liberty MA Base Sheet.
10. Complete the side lap installation by rolling the lap with a hand roller.

**Slopes between 1/2" – 3" –** install the Liberty Cap Sheet as above with the following additional sidelap fastening:

1. Prior to closing the side lap, install one fastener every 9" along the lap in the selvage edge. Fastener shall be between 2" and 3" from the edge of the sheet.

**Slopes between 3" and 6" per foot -** For roof slopes between 3" and 6" per foot, contact Contractor Services at 1-800-Roof 411 (1-800-766-3411)

**Finish the installation –** complete the installation as follows:

1. Before leaving the roof, broom the entire roof surface to assist with adhesion, taking care to not track the endlap adhesive.
2. Any wrinkles in the Liberty Cap Sheet must be cut out and covered with Cap Sheet. Remove the release film from the back of the patch prior to embedding in a troweling of Matrix 205 Sure-Grip Adhesive. The patch must extend at least 6" (152mm) in all directions beyond the cut out area.

**"Note: Repair leaks promptly to avoid adverse affects, including mold growth."**

