Specification STPU-S/C

General
This specification is for use over any approved steel deck which is suitable to receive a urethane adhesive-applied insulation. This specification can also be used in certain re-roofing applications. Install insulation in accordance with the appropriate JM insulation specification detailed in the current JM Single Ply Roofing Systems Manual. All insulation boards and cover boards must be properly embedded in JM-approved urethane adhesive.

Note: Consider all general instructions contained in the current JM Single Ply Roofing Systems Manual as part of the specification.

Design
Consider local conditions and characteristics when designing, specifying and installing any roofing system. Information from the Single Ply Roofing Industry (SPRI), FM Global® and local building codes can provide guidelines for the designer. Design and installation of the deck and/or roof substrate must result in the roof draining freely to outlets numerous enough and so located as to remove water promptly. Minor ponding is acceptable.

Deck Preparation
Ensure the deck is clean, dry and smooth so that the insulation lays flat. Steel decks must be a minimum 22 gauge and approved fastening methods must be followed to achieve the desired uplift. Please check with the deck manufacturer for further guidelines.

Insulation Application
Recommended minimum width is 6" (152 mm). Store products per manufacturer’s recommendations. Remove any wet product and discard. A minimum offset of 6" (152 mm) is recommended from the previous layer of insulation. The top layer of insulation must be a minimum 1.4" (36 mm) thick.

Insulation Securement – Fastened
Install UltraFast Fasteners and Plates at a minimum rate of 1 fastener per every 2 square feet. Fasteners must pierce the top flute of the deck at a minimum of 1" (2.54 cm).

Cover Board Securement – Adhered
Apply JM Roofing Systems Urethane Adhesive as follows:

<table>
<thead>
<tr>
<th>Field</th>
<th>Perimeter</th>
<th>Corners</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; (305 mm)</td>
<td>6&quot; (152 mm)</td>
<td>4&quot; (102 mm)</td>
</tr>
</tbody>
</table>

Note: Be sure to utilize FM 1-28 guidelines for determining perimeter width.

Membrane Application
Before installation, unroll the JM TPO FB Membrane, and “relax”:
• 15 minutes when the temperature is above 60°F (16°C)
• 30 minutes when the temperature is below 60°F (16°C)

Once the membrane has been properly positioned, fold the sheet back half of the sheet’s length. Apply Roofing System Urethane Adhesive as directed on the adhesive instructions. Ensure that the membrane is rolled at least twice with a heavy compression roller after application into the adhesive.

Membrane Securement – Adhered
Apply JM Roofing Systems Urethane Adhesive as follows:

<table>
<thead>
<tr>
<th>Field</th>
<th>Perimeter</th>
<th>Corners</th>
</tr>
</thead>
<tbody>
<tr>
<td>12&quot; (305 mm)</td>
<td>6&quot; (152 mm)</td>
<td>4&quot; (102 mm)</td>
</tr>
</tbody>
</table>

Note: Be sure to utilize FM 1-28 guidelines for determining perimeter width.

Welding of Lap Areas
The laps of JM TPO adhered systems must be hot air welded. Clean all surfaces to be welded. Follow manufacturer’s operating instructions for welding equipment. All welds must be a minimum of 1.5” (38 mm) in width.

Quality Control of Seams
After heat welding, check the seams for integrity with a blunt-ended probe. Repair any cold welds or “fishmouths”. Each day, take test cuts at the seams and pull until failure to test the quality of the welds. Should the welds be deficient, a more thorough examination of the work performed must be carried out and necessary repairs made.

Perimeter Attachment
Secure attachment of the TPO roofing membrane at the perimeter and at penetrations by mechanical fastening using High Load Fasteners and Plates or other approved fasteners appropriate for substrates.