

## TPO DESIGN TABLE - NEW CONSTRUCTION OR TEAR-OFF - FULLY ADHERED

Deck	Membrane Attachment		Membrane Type		Insulation/Substrate					Insulation/Substrate Attachment		
	Fully Adhered		Smooth	Fleece (FB)	ISO	Gypsum Board <sup>5</sup>	Wood fiber/ Perlite	EPS/ XEPS <sup>2</sup>	None	Mech Attached	Adhesive	Hot <sup>1</sup>
	Adhesive	Hot										
Steel	x		x		x	x	x <sup>4</sup>	x		x	x	
				x	x	x	x <sup>4</sup>	x		x	x	
		x		x	x	x	x	x <sup>7</sup>		x	x	
Wood	x		x		x	x	x <sup>4</sup>	x	x	x	x	x <sup>3</sup>
				x	x	x	x <sup>4</sup>	x	x	x	x	x <sup>3</sup>
		x		x	x	x	x		x <sup>3</sup>	x	x	x <sup>3</sup>
Structural Concrete & Gypsum	x		x		x	x	x <sup>4</sup>	x		x	x	x
				x	x	x	x <sup>4</sup>	x	x	x	x	x
		x		x	x	x	x		x	x	x	x
Lightweight Insulating Concrete	x		x		x	x	x <sup>4</sup>	x		x	x	x <sup>3</sup>
				x	x	x	x <sup>4</sup>	x	x <sup>6</sup>	x	x	x <sup>3</sup>
		x		x	x	x	x	x <sup>7</sup>	x <sup>3</sup>	x	x	x <sup>3</sup>
Cementitious Wood Fiber	x		x		x	x	x <sup>4</sup>	x		x	x	x <sup>3</sup>
				x	x	x	x <sup>4</sup>	x	x	x	x	x <sup>3</sup>
		x		x	x	x	x	x <sup>7</sup>	x <sup>3</sup>	x	x	x <sup>3</sup>

1. No hot attachment of polimat, XEPS, EPS, or Fanfold
2. Attachment of membrane to XEPS, EPS, must be with water based adhesive

3. Insulation/membrane can be installed in hot asphalt only when mopping to mechanically attached base sheet.
4. Wood fiber only with bonding adhesives.
5. Glass mat facer required for fully adhered membranes.
6. Attachment of membrane must be with water based adhesive.
7. Overlay board required.

## TPO DESIGN TABLE - RECOVER - FULLY ADHERED

Exiting Roofing System Type	Membrane Attachment		Membrane Type		Insulation/Substrate					Insulation/Substrate Attachment		
	Fully Adhered		Smooth	Fleece	ISO	Gypsum Board <sup>6</sup>	Wood fiber/ Perlite <sup>3</sup>	EPS/XEPS <sup>2</sup>	None	Mech Fast.	Adhesive	Hot <sup>1</sup>
Smooth BUR/MB	Adhesive	Hot										
	Smooth BUR/MB	X		X		X	X	X <sup>5</sup>	X		X	X
				X	X	X	X <sup>5</sup>	X	X	X	X	X
		X		X	X	X	X	X <sup>7</sup>	X	X	X	X
Single Ply Membrane	X		X		X	X	X <sup>5</sup>	X		X		
				X	X	X	X <sup>5</sup>	X		X		
		X		X	X	X	X	X <sup>7</sup>		X		
Granule Surfaced BUR/MB	X		X		X	X	X <sup>5</sup>	X		X	X	X
				X	X	X	X <sup>5</sup>	X	X	X	X	X
		X		X	X	X	X	X <sup>7</sup>	X	X	X	X
Gravel Surfaced BUR/MB	X		X		X	X	X <sup>5</sup>	X		X	X	X
				X	X	X	X <sup>5</sup>	X		X	X	X
		X		X	X	X	X	X <sup>7</sup>		X	X	X
Standing Seam Metal <sup>4</sup>	X		X		X	X	X <sup>5</sup>	X		X		
				X	X	X	X <sup>5</sup>	X		X		
		X		X	X	X	X	X <sup>7</sup>		X		

1. No hot attachment of polymat, XEPS, EPS, or Fanfold

2. Attachment of membrane to XEPS, EPS, or Fanfold must be with water based adhesive

3. Roof moisture scan required for use of perlite/wood fiber in recover roof systems.

4. XEPS is the only material allowed as flute fill with overlay board required

5. Wood fiber only with bonding adhesives.

6. Glass mat facer required for fully adhered membranes.

7. Overlay board required.