

# Technical Bulletin # TPO –MA01-2006

## Membrane Minimum Fastener Spacing Requirements For Mechanically Attached Systems With 55-MPH Wind Speed Coverage

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This criteria is limited to buildings of 100' in height or less located in urban or suburban exposure areas. Not applicable for coastal or high wind areas. Maximum design wind speeds of 100-MPH. Contact Mule-Hide Technical Department for Factory Mutual Approved systems or compliance with Building Code Requirements such as Florida Product Approval, Texas Department of Insurance, Miami-Dade, etc.

### Chart is based on HDP (#14) Fasteners and 2.4" Seam Plates

Roof Deck	Roof Height	Width of Field Sheet	Fastener Spacing
<b>Steel Roof Decks</b>			
<b>Steel Min 22 gauge</b>	Up to 60'	12'	6" oc
		10'	12" oc
		8'	12" oc
	61' to 100'	12'	6" oc
		10'	6" oc
		8'	6" oc
<b>Steel - 24 gauge Metal Roof Panels</b>	0' to 100'	Pull test required. Contact Mule-Hide for additional information. System may not quality for warranty.	
<b>Steel - 26 gauge Metal Roof Panels</b>	N/A	Not eligible for warranty with direct attachment to decking. Contact Mule-Hide Technical Department.	
<b>Wood Roof Decks</b>			
<b>2X Plank ¾" Plywood</b>	Up to 60'	12'	6" oc
		10'	12" oc
		8'	12" oc
	61' to 100'	12'	6" oc
		10'	6" oc
		8'	12" oc
<b>5/8" Plywood</b>	Up to 60'	10'	12" oc
		8'	12" oc
	61' to 100'	10'	6" oc
		8'	12" oc
<b>1X Plank ½" Plywood</b>	Up to 60'	10'	6" oc
		8'	12" oc
	61' to 100'	8'	6" oc
		N/A	

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Roof Deck	Roof Height	Width of Field Sheet	Fastener Spacing
<b>Structural Concrete Roof Decks</b>			
<b>2500 psi 2" min pour or precast</b>	Up to 60'	12'	12" oc
		10'	12" oc
		8'	12" oc
	61' to 100'	12'	6" oc
		10'	6" oc
		8'	12" oc
<b>Insulating Concrete (Fasteners must penetrate form deck)</b>			
<b>Steel Form Deck</b>	0' to 100'	Pull test required. Contact Mule-Hide for additional information. System may not qualify for warranty.	
<b>Other Roof Decks</b>			
<b>Gypsum Concrete Cementitious Wood Fiber Other</b>	0' to 100'	Pull test required. Contact Mule-Hide for additional information. System may not qualify for warranty.	

- Notes:
1. HDP Fasteners (#14) are required system fasteners for Mule-Hide Warranties.
  2. EHD Fasteners (#15) are required for 'rated assemblies' such as Factory Mutual, Miami-Dade, etc. Contact Mule-Hide Technical Department for additional information.
  3. 2.4" Seam Plates are required for all mechanically attached systems.
  4. 3" Insulation plates are not approved for use to fasten membrane.
  5. Mechanically attached systems are not allowed over Oriented Strand Board (OSB) decks without prior approval by the Mule-Hide Technical Department. Mule-Hide will not issue system warranties on "As-Built" projects where Mule-Hide did not grant approval prior to the start of the work.
  6. Refer to Mule-Hide Fastener Guidelines for additional information on fastener use and installation.
  7. Refer to Technical Bulletin #TPO-MA02-2006 for perimeter enhancement requirements.

**FOR PERIMETER ENHANCEMENT REQUIREMENTS  
REFER TO TECHNICAL BULLETIN #TPO-MA02-2006**

Any information given on this Technical Bulletin is subject to change without notice. Please visit our website at [www.mulehide.com](http://www.mulehide.com) or contact Mule-Hide Technical Department at (800-786-1492) for questions or additional information.