

Technical Bulletin # TPO –MA02-2006

Perimeter Half Sheet Requirements Mechanically Attached System

January 01, 2006

When using 8' wide sheet for the field of the roof, 4' wide Half Sheets are used in the perimeter areas.
When using 10' wide sheet for the field of the roof, 5' wide or 6' wide Half Sheets are used in the perimeter areas.
When using 12' wide sheet for the field of the roof, 6' wide Half Sheets are used in the perimeter areas.

Building Height	Minimum Required	FM Required
Contact Mule-Hide for all projects requiring specific building code compliance.	For buildings 100 ft. or less in height, 200 ft. or less in width Urban, rural or suburban exposure (No coastal areas)	For buildings where FM approved securement is required and for buildings that do not meet the requirements for standard attachment.
	TPO Half Sheets (quantity)	TPO Half Sheets (quantity)
0 - 34 feet	1 Half Sheet	Install Half Sheets throughout the corner/perimeter areas of the roof. The width of these areas is determined by the lesser of the following two calculations: a. $0.1 \times \text{the building width} =$ or b. $0.4 \times \text{the building height} =$ In no event shall the perimeter/corners be less than 4 ft.
35 - 69 ft.	2 Half Sheets	
70 - 100 ft	2 Half Sheets (wind zones up to 80 mph)	
Higher than 100 ft. or higher wind zones.	Contact Mule-Hide Tech. Dept.	
Projects in exposure D category (coastal areas)	Contact Mule-Hide Tech. Dept.	
Roof edges along interior walls, 8 ft. or higher. (Walls extend above the roof level)	No Half Sheets required	

Attachment of Half Sheet in corner and perimeter areas

To meet FM compliance, in the roof corners and perimeter, the distance between the rows of fasteners (for membrane attachment) should meet the following maximum percentages of the FMRC-Approved spacing. These spacings are used in all wind zones Approval classifications:

1. Roof Perimeter - the maximum distance allowed between the rows of membrane fasteners is less than or equal to (L) 60% of the roof field spacing.
2. Roof Corners - the maximum distance allowed between the rows of membrane fasteners is less than or equal to (L) 40% of the roof field spacing.
 - a. An alternative is to install the perimeter fastener rows (60% of the field as above) in both directions in the corner. This would be accomplished by running the Half Sheets in two layers perpendicular to each other in the corner areas.
 - b. Increased fastening density is obtained by using narrower sheets or the preferred method of installing intermediate rows of fasteners through the sheets with a cover strip applied over the rows of fasteners.

Note: Increasing fastening density is not achieved by decreasing the distance between the fasteners in the seams. The minimum spacing allowed between the fasteners in the seam is 6 inches.

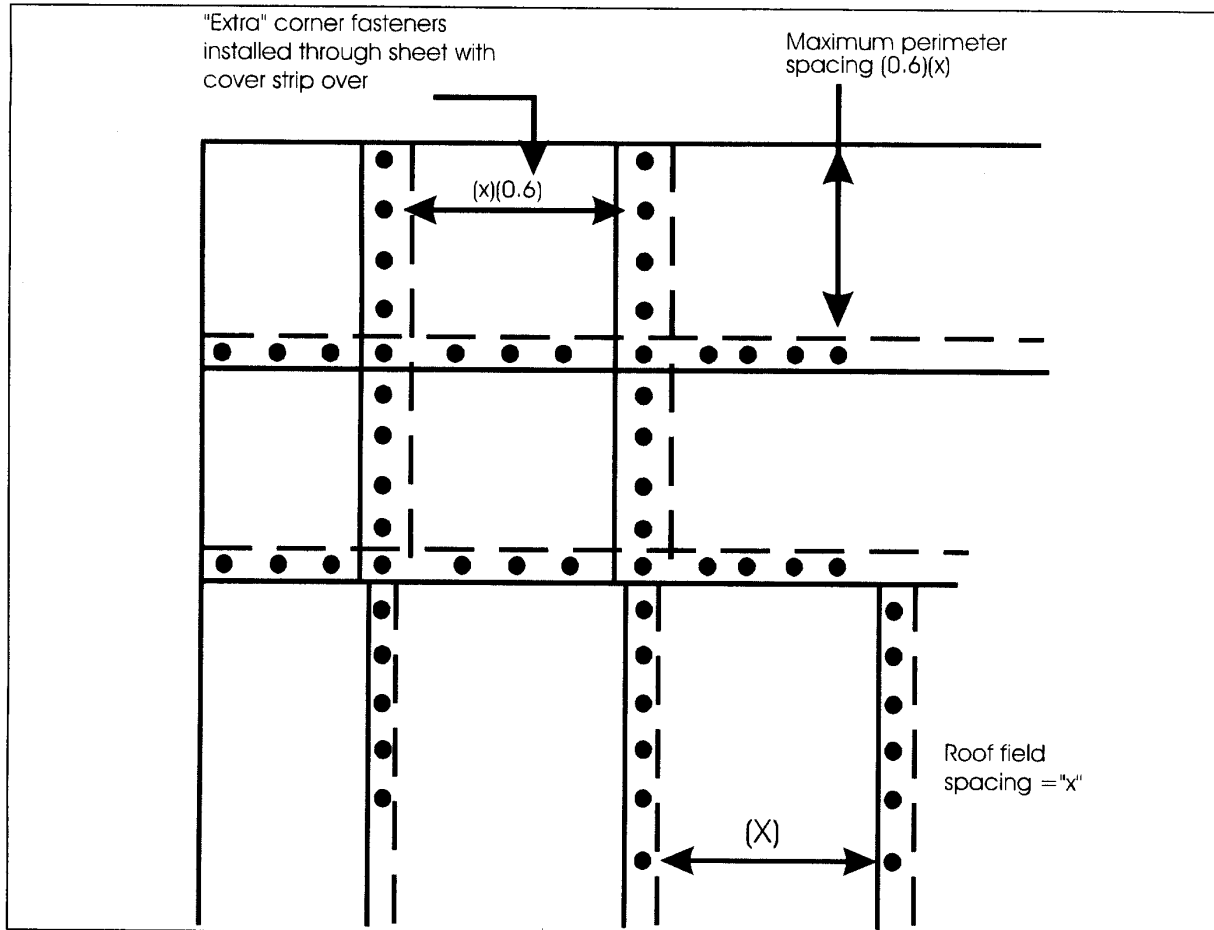
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Following is an illustration depicting the addition of the intermediate rows of fasteners that would then be covered with the Mule-Hide TPO Flashing Strips.



Contact Mule-Hide Technical Department for FM compliant roof assemblies, fastener spacing, required Half Sheets and appropriate fasteners.