

Technical Bulletin # TPO –MA01-2006

Membrane Minimum Fastener Spacing Requirements

January 01, 2006

| Deck Type | Standard |
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| | For buildings 100 ft. or less in height, 200 ft. or less in width Urban, rural or suburban exposure (no coastal areas/ no high wind areas) |
| Steel | |
| 22 ga. Grade E or Grade 80 | 6" o.c. 12', 10' and 8' sheets* |
| 22 ga. Grade E or Grade 80 | 12" o.c. 10' and 8' sheets only* |
| 22 ga. Standard | 6" o.c. 12', 10' and 8' sheets* |
| 22 ga. Standard | 12" o.c. 10' and 8' sheets only* |
| 24 ga. Standard | Contact Mule-Hide for sheet sizes and fastener requirements (pullouts required) |
| 26 ga. Standard | n/a |
| Wood | |
| 2x Plank, 3/4" Plywood | 12" o.c. 12', 10' and 8' sheets* |
| 1x Plank, 1/2" plywood | 6" o.c. 8' sheets only* |
| Structural Concrete | |
| 2500 psi - 2" min pour or precast | 6" o.c. 12', 10' and 8' sheets* Contact Mule-Hide for acceptable deviations |
| Insulating Concrete | Fasteners must penetrate Form |
| 22 ga. Steel Form | 12" o.c. 10' and 8' sheets only |
| 24 ga. Steel Form | Contact Mule-Hide for sheet sizes and fastener requirements (pullouts required) |
| 26 ga. Steel Form | n/a |
| Gypsum Concrete | |
| Min 2" thick pour or precast | 6" o.c. (8' wide sheet only) |
| Cementitious Wood Fiber | |
| Min 2" thick panel | 6" o.c. (8" wide sheet only) |
| Plate Requirements | |
| Mule-Hide MH-HD Seam plate is minimum requirement for in-seam attachment. | Certain assemblies may require the use of the Mule-Hide MH-HD Plus Seam Plate. |
| Fastener Requirements | |
| Attachment based upon typical pullout values. Pullout testing is recommended for all projects and required for non-FM approved deck types. | Requirements for non-FM type decks are based on equivalency of fastener pullout values and the use of specific approved attachment plate. |
| <p>*The above referenced attachments for 22 ga. steel, 3/4" plywood and structural concrete are based on Mule-Hide's MH-HD 15 Fastener/ HD Seam Plate (2.4" dia.) or Mule-Hide EHD Fastener/2.4 Seam Plate.</p> <p>For FM approved systems or for compliance with building code requirements, Contact Mule-Hide Technical or Customer Service Dept.</p> | |