

Attention: This Spanish translation is provided solely as a courtesy. MuleHide makes no guarantees about the accuracy or reliability of the translation. The document from which this translation has been extracted is a document in English. If there are differences between the English content and its translation, the English content is always the most accurate and the English document will always be the determining document. By choosing to use or rely on the Spanish interpretation, the user accepts the legal implications of any deficiencies or differences in the translation. MuleHide will not be liable for any damages of any kind arising from or related to the use of the translation.

Atención: Esta traducción al español se proporciona únicamente como cortesía. MuleHide no ofrece ninguna garantía sobre la exactitud o confiabilidad de la traducción. El documento del que se ha extraído esta traducción es un documento en inglés. Si hay diferencias entre el contenido en inglés y su traducción, el contenido en inglés es siempre el más preciso y el documento en inglés será siempre el documento determinante. Al elegir utilizar o confiar en la interpretación en español, el usuario acepta las implicaciones legales de cualquier.

MOD BIT

GUÍA DE BOLSILLO



"The name trusted in roofing since 1906"

Mule Hide Products Guía de instalación de campo de betún modificado
Sistemas totalmente adheridos

Julio, 2018

Página de pautas de instalación

Betún modificado autoadherido (SAMB)	4
APP (soplete) Betún modificado	6

Detalles del betún modificado autoadherido

Conjuntos de membranas

Ensamblajes de membrana de 10 años (MH-MBA-1)	9
Ensamblajes de membrana de 15 años (MH-MBA-2)	10
Conjuntos de membrana de 20 años (MH-MBA-3)	11

Bordillos y muros

Tapajuntas de base con peralte - Opción 1 (MH-MB-C1)	12
Tapajuntas de base con peralte - Opción 2 (MH-MB-C2)	13
Tapajuntas de base con peralte - Opción 3 (MH-MB-C3)	14
Tapajuntas de base con peralte - Opción 4 (MH-MB-C4)	15
Tapajuntas de la base - Divisor de área - Opción 1 (MH-MB-AD1).....	16
Tapajuntas de la base - Divisor de área - Opción 2 (MH-MB-AD2).....	17
Tapajuntas de la base - Divisor de área - Opción 3 (MH-MB-AD3).....	18
Flasheo de la base - Opción 1 (MH-MB-BF1)	19
Flasheo de la base - Opción 2 (MH-MB-BF2)	20
Flasheo de la base - Opción 3 (MH-MB-BF3)	21
Flasheo de la base - Opción 4 (MH-MB-BF4)	22
Flasheo de la base - Opción 5 (MH-MB-BF5)	23
Flasheo de la base - Opción 6 (MH-MB-BF6)	24
Flasheo de la base - Opción 7 (MH-MB-BF7)	25
Flasheo de la base - Opción 8 (MH-MB-BF8)	26
Flasheo de la base - Opción 9 (MH-MB-BF9)	27
Flasheo de la base - Opción 10 (MH-MB-BF10)	28

Esquinas

Esquina exterior (MH-MB-M1)	29
Esquina interior (MH-MB-M2)	30

Terminación intermitente

Terminación de tapajuntas de pared - Opción 1 (MH-MB-WFT01)	31
Terminación de tapajuntas de pared - Opción 2 (MH-MB-WFT02)	32
Terminación de tapajuntas de pared - Opción 3 (MH-MB-WFT03)	33
Terminación de tapajuntas de pared - Opción 4 (MH-MB-WFT04)	34
Terminación de tapajuntas de pared - Opción 5 (MH-MB-WFT05)	35

Drenaje

Drenaje (MH-MB-D1)	36
Drenaje de actualización (MH-MB-D2)	37
Imbornal (MH-MB-S1)	38
Canalón - Opción 1 (MH-MB-G1).....	39

Canalón - Opción 2 (MH-MB-G2).....	40
------------------------------------	----

Tapajuntas de tubería/penetración

Tapajuntas de tuberías - Opción 1 (MH-MB-P1)	41
Tapajuntas de tuberías - Opción 2 (MH-MB-P2)	42
Tapajuntas de tuberías - Opción 3 (MH-MB-P3)	43
Tapajuntas de tuberías - Opción 4 (MH-MB-P4)	44
Tapajuntas de tuberías - Opción 5 (MH-MB-P5)	45
Bolsillo de penetración (MHMB-141)	46
Bolsillo de sellador vertical (MHMB-142)	47

tapajuntas de borde de techo

Tapajuntas de metal de borde - Opción 1 (MH-MB-EM1)	48
Tapajuntas de metal de borde - Opción 2 (MH-MB-EM2)	49
Tapajuntas de metal de borde - Opción 3 (MH-MB-EM3)	50
Tapajuntas de metal de borde - Opción 4 (MH-MB-EM4)	51
Parada de grava - Opción 1 (MH-MB-GS1)	52
Parada de grava - Opción 2 (MH-MB-GS2)	53
Parada de grava - Opción 3 (MH-MB-GS3)	54

Costuras

Vueltas finales FASTLap (45 grados) (MH-MB-110)	55
Hojas de tapa cortadas Vueltas finales (45 grados) (MH-MB-111)	56

Misceláneo

Junta de expansión (MH-MB-EJ1).....	57
Conexión con el bit Smooth Mod existente (MH-MB-162)	58
Valle Abierto (MHMB-180)	59

Fijación de aislamiento / lámina base

Accesorio de aislamiento - Opción 1 (MH-MB-INS1)	60
Accesorio de aislamiento - Opción 2 (MH-MB-INS2)	61
Accesorio de aislamiento - Opción 3 (MH-MB-INS3)	62
Accesorio de aislamiento - Opción 4 (MH-MB-INS4)	63
Accesorio de aislamiento - Opción 5 (MH-MB-INS5)	64
Patrón de fijación de la base de clavos - 1-60 (MH-NB-FM1-60)	65
Patrón de fijación de la base de clavos - 1-90 (MH-NB-FM1-90)	66

Detalles del betún modificado APP (Torch)

Bordillos y muros

Tapajuntas de base / No combustible (MH-MB-UN-CW01T)	67
Tapajuntas de base / combustible (MH-MB-UN-CW011T)	68
Tapajuntas de base con masilla (MH-MB-UN-CW02T)	69
Tapajuntas de base con contraflasheo (MH-MB-UN-CW03T)	70
Tapajuntas de base con perímetro ventilado (MH-MB-UN-CW04T)	71
Parapeto con Revestimiento (MH-MB-UN-CW05T)	72
Muro alto (MH-MB-UN-CW06T)	73
HVAC - Bordillo de madera (MH-MB-UN-CW07T)	74

Bordillo metálico prefabricado (MH-MB-UN-CW08T)	75
Divisor de área/soporte de equipo (MH-MB-UN-CW010T)	76

Esquinas

Esquina exterior isométrica (MH-MB-UN-CR01T)	77
Esquina interior isométrica (MH-MB-UN-CR02T)	78

Juntas de expansión

Bordillo de junta de expansión (MH-MB-UN-XJ01T)	79
Muro de la junta de expansión (MH-MB-UN-XJ02T)	80

Drenaje

Desagüe de techo (MH-MB-UN-DR01T)	81
Inserto de drenaje (MH-MB-UN-DR02T)	82
Imbornal (MH-MB-UN-DR03T)	83
Canalón con borde de goteo (MH-MB-UN-DR04T)	84
Canalón con borde de goteo - Opción 2 (MH-MB-UN-DR05T)	85
Canalón con brida sin borde de goteo (MH-MB-UN-DR06T)	86

Tapajuntas de tubería/penetración

tubo de ventilación (MH-MB-UN-PP01T)	87
Pila en caliente (MH-MB-UN-PP02T)	88
Bolsillo de penetración (MH-MB-UN-PP03T)	89
Bolsillo de sellador vertical (MH-MB-142)	90
Durmiente (MH-MB-UN-PP05T)	91
Pararrayos (MH-MB-UN-PP06T)	92

tapajuntas de borde de techo

Borde de goteo (MH-MB-UN-RE01T)	93
Borde de goteo - Opción 2 (MH-MB-UN-RE02T)	94
Borde del techo en parapeto (MH-MB-UN-RE03T)	95

Costuras

Vuelta final (MH-MB-UN-SE01T)	96
Vueltas finales - Opción 1 (MH-MB-UN-SE02T)	97
Vueltas finales - Opción 2 (MH-MB-UN-SE03T)	98
Paralelo de clavado trasero con pendiente (MH-MB-UN-SE04T)	99

Fijación de aislamiento / lámina base

Accesorio de aislamiento - Opción 1 (MH-MB-INS1)	100
Accesorio de aislamiento - Opción 2 (MH-MB-INS2)	101
Accesorio de aislamiento - Opción 3 (MH-MB-INS3)	102
Accesorio de aislamiento - Opción 4 (MH-MB-INS4)	103
Accesorio de aislamiento - Opción 5 (MH-MB-INS5)	104
Patrón de fijación de la base de clavos - 1-60 (MH-NB-FM1-60)	105
Patrón de fijación de la base de clavos - 1-90 (MH-NB-FM1-90)	106

Pautas de instalación para membranas de betún modificado autoadhesivo (SAMB) de piel de mula

- A. Almacene las membranas a temperatura ambiente siempre que sea posible hasta justo antes de instalar los rollos. Los materiales se almacenarán de manera ordenada y segura para evitar exceder la carga viva permitida del área de almacenamiento. No apile dos paletas de membrana bituminosa modificada autoadhesiva Mule-Hide.
- B. Los rollos deben almacenarse en los extremos. Si se almacena en los lados, el rollo puede distorsionarse (en forma de huevo) y ser difícil de instalar.
- C. La temperatura mínima de aplicación para los materiales SAMB de piel de mula es de 40 ° F y aumenta durante 48 horas consecutivas.
 - a. Para funcionar correctamente, los materiales SAMB de piel de mula requieren una temperatura mínima de aplicación de 40 ° F y se elevan durante 48 horas consecutivas. Esto se aplica a los materiales del techo y al sustrato aprobado. Durante la instalación, la membrana debe enrollarse rápidamente con un rodillo mínimo de 75 #. El incumplimiento de estos requisitos puede resultar en problemas de mala adherencia o agrietamiento.
 - b. Durante los períodos de clima más frío, los materiales SAMB de piel de mula siempre deben almacenarse a temperatura ambiente (60 ° a 80 ° F) hasta justo antes de su uso. Los materiales que no se almacenan a temperatura ambiente (o que no se usan dentro de las 4 horas) deben restaurarse a temperatura ambiente antes de su uso.
- D. Las siguientes placas de aislamiento/cubierta son aceptables para su uso con a sistema de techado de betún modificado autoadherente:
 - a. Aislamiento de poliisocianurato Mule-Hide Poly ISO 1 o Mule-Hide Poly ISO 2.
 - b. Tableros de fibra de madera de alta densidad (HD)
 - i. Structodek® HD con tablero de fibra de madera con revestimiento rojo imprimado de Blue Ridge - se puede usar como superposición sobre otros aislamientos. 1/2 pulgada de espesor es el requisito mínimo cuando se usa como superposición.
 - ii. Tablero de fibra de madera HD: impregnado de asfalto, recubierto en seis lados.
 - c. DensDeck Prime o Securock: se puede usar una capa mínima de 1/4" de espesor de DensDeck Prime o Securock Gypsum-Fiber Roof Board como recubrimiento sobre un aislamiento aprobado o como barrera térmica sobre una plataforma combustible. No se requiere imprimación de DensDeck Prime con imprimación asfáltica Mule-Hide # 121 (a menos que haya contaminantes como polvo de yeso), pero si se aplica imprimación, mejorará la adherencia.

- E. Aplicación sobre madera contrachapada nueva (grado mínimo CDX de 15/32") o tablero de fibra orientada (OSB) nuevo como plataforma o sustrato. En construcciones nuevas, se recomienda una placa aislante o una base de clavos, sin embargo, es aceptable adherirse directamente a la nueva plataforma de madera contrachapada u OSB si la plataforma está asegurada con tornillos o sujetadores resistentes al retroceso. OSB debe instalarse con el lado áspero hacia arriba. Las cubiertas unidas con clavos o grapas comunes o recubiertas de cemento deben cubrirse con un aislamiento aprobado. No se recomienda la madera contrachapada de grado marino o "tratada con verde". Consulte los requisitos del código de construcción local, ya que adherir una membrana de betún modificado autoadhesivo directamente a una plataforma de madera puede no cumplir con los códigos de incendios locales.
- F. Cuando se adhiere directamente a una plataforma existente de madera contrachapada u OSB, se debe usar imprimación asfáltica Mule-Hide # 121.
- G. Después de adherir la hoja, se requiere que se aplique una presión uniforme a toda el área del rollo utilizando un rodillo de linóleo mínimo de 75 #, un rodillo de césped lleno de agua o un rodillo ponderado similar.
 - a. La hoja debe enrollarse primero en la dimensión corta y en la dimensión larga en segundo lugar.
 - b. Se debe tener cuidado para evitar lesiones al rodar la membrana, especialmente en superficies inclinadas.
- H. Al completar las vueltas finales, corte la esquina superior de la hoja superior en un ángulo de 45 grados (comience el corte aproximadamente a 3 pulgadas del borde superior y termine a 3 pulgadas del borde superior), también aplicando sellador Mule-Hide # 271 o # 421 Mod Bit a los cortes de 45 grados. Alinee la siguiente hoja de modo que el final de la hoja cubra el **FASTLap**. Retire la película protectora de liberación del **FASTLap** y aplique una presión firme y uniforme en el área de la costura. Enrolle bien la vuelta final con un rodillo de silicona. Las vueltas finales deben escalonarse aproximadamente a 3 pies de distancia.

Consulte las especificaciones completas de Mule-Hide para conocer los requisitos adicionales, esta guía no reemplaza las especificaciones de Mule-Hide.

Pautas de instalación para membranas de betún modificado con APP (soplete) de piel de mula

El contratista de techos debe asegurarse de que todos los aplicadores con la aplicación de betunes modificados soldados con calor estén debidamente capacitados y lleven una tarjeta válida de aplicador certificado de soplete para techos (**CERTA**) como evidencia de capacitación. Todos los aplicadores deben llevar, revisar, comprender y cumplir con la información y las pautas de seguridad contenidas en el "Torch Applied / Do and Don't" publicado y suministrado por la Asociación de Fabricantes de Techos de Asfalto de vez en cuando. Después de la instalación, para minimizar el riesgo de incendio, los aplicadores deben inspeccionar minuciosamente todas las áreas del techo donde se han utilizado antorchas (preferiblemente con termómetros), así como todos los conductos de aire de retorno y vigas transversales. Los aplicadores deben proporcionar un mínimo de cuatro horas de vigilancia contra incendios después de incendiar para minimizar el riesgo de incendio. Los aplicadores deben mantener los extintores de incendios disponibles en el sitio y deben seguir todas las leyes y reglas federales, estatales y locales relevantes aplicables al proyecto y los productos que se utilizan, particularmente las relacionadas con la seguridad y la prevención de incendios.

La siguiente es una lista de tableros de cubierta / barreras térmicas aprobados que se pueden usar en los sistemas de techo Mule-Hide APP Torch MB:

1. **Dens Deck Prime de Georgia-Pacific (GP):** las hojas base APP Torch y SA se pueden aplicar directamente a la superficie. El grosor mínimo del Dens-Deck Prime depende de las condiciones del viento local. No se requiere imprimación de DensDeck Prime con imprimación asfáltica Mule-Hide #121 (a menos que haya contaminantes como polvo de yeso), pero si se aplica imprimación, mejorará la adhesión. Póngase en contacto con el Departamento de Servicio Técnico de Mule-Hide para obtener detalles sobre los espesores aceptables y los patrones de sujeción.
2. **Tablero de techo de fibra de yeso Securock de United States Gypsum (USG)** No se requiere imprimación de campo de este producto. La hoja base de la antorcha APP se puede soldar con calor (aplicación con soplete) directamente a la superficie.
3. La lámina base SA también se puede aplicar directamente a un sustrato aprobado.
4. La hoja de base G2 o la base de clavos de piel de mula también se pueden unir con sujetadores apropiados directamente al sustrato.

Al intentar instalar membranas de betún modificado Mule-Hide en un sustrato/aislamiento no aceptable, Mule-Hide requiere la instalación de un material aceptable como recubrimiento antes de la instalación de una lámina base Mule-Hide adecuada.

No instale membranas de betún modificado a temperaturas inferiores a 40-45 grados F siempre que sea posible. Cuando el trabajo sea inevitable a tales temperaturas, se tomarán las siguientes precauciones:

- A. Tenga especial cuidado durante la instalación en climas fríos a temperaturas ambiente de 40-45 grados F o menos y cuando las temperaturas ambiente se vean afectadas por el viento o la humedad para garantizar que se logre una unión adecuada entre las superficies a unir. Esto se aplica tanto a las soldaduras de costura del material como a la adhesión del producto aplicado al sustrato preparado adecuadamente, ya que el sustrato también puede verse afectado por tales restricciones de temperatura.
- B. Además, debe evitarse el desenrollado de materiales fríos en condiciones ambientales muy bajas para evitar la probabilidad de agrietamiento por tensión innecesario. Los rollos deben estar al menos a 40 grados F en el momento de la aplicación. Si el rollo de membrana se vuelve rígido o difícil de instalar, debe reemplazarse con un rollo nuevo del área de almacenamiento con calefacción.
- C. Al instalar un sistema de techo con sistema modificado APP Mule-Hide en climas más fríos, se recomienda que los líquidos como solventes, selladores, etc. se almacenen a temperaturas más cálidas (60 ° F o más, pero sin exceder los 80 ° F) hasta justo antes de su uso para facilitar la instalación.
- D. Si usa la hoja base SA, debe instalarse a temperaturas superiores a 50 ° F. Las temperaturas deben ser de 50 ° F y aumentar durante 48 horas consecutivas.

Las pautas básicas de instalación son las siguientes:

- A. Comience en el punto bajo del techo. La lámina base de la antorcha APP está diseñada específicamente para aplicarse directamente a sustratos aprobados (tablas de cubierta, láminas de base clavables, materiales de cubierta aprobados y materiales de reposición). Nota: algunos sustratos pueden requerir imprimación con Mule-Hide #121 Asphalt Primer.
- B. La aplicación directa a concreto estructural, metal, superficies metálicas, BUR liso, betún modificado liso y Dens-Deck Prime requiere la aplicación de imprimación asfáltica Mule-Hide # 121 antes de la aplicación de la lámina base de la antorcha APP. La imprimación debe dejarse secar completamente.
- C. No se permite la aplicación directamente a la plataforma de madera y requiere la instalación de una lámina base aprobada o una tabla de cubierta como sustrato.
- D. Al completar las vueltas finales, corte la esquina superior de la hoja superior

en un ángulo de 45 grados (comience el corte aproximadamente a 3 pulgadas del borde superior y termine a 3 pulgadas del borde superior). Enrolle la hoja superior y enrolle bien con un rodillo de silicona. Las vueltas finales deben escalonarse aproximadamente a 3 pies de distancia.

E. No caliente el sustrato.

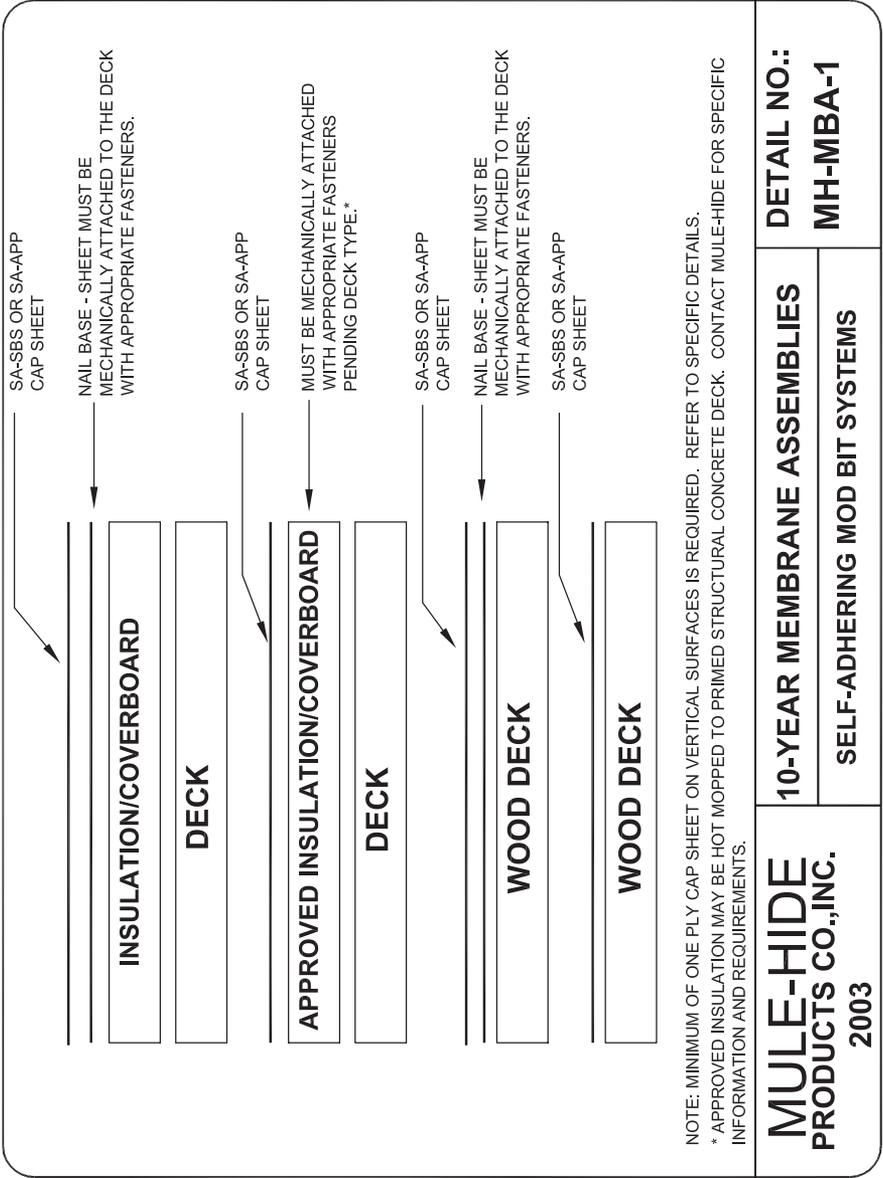
F. Coloque los rodillos sucesivos proporcionando una vuelta final mínima de 6" y una vuelta lateral de 3". El sangrado de asfalto debe ser de 1/4 "a 3/8" en todas las costuras.

G. Las vueltas se enrollarán con un rodillo de 6 "de ancho inmediatamente después de la soldadura por calor.

H. APP hoja base de la antorcha debe estar girada hasta la parte superior del peralte.

Consulte las especificaciones completas de Mule-Hide para conocer los requisitos adicionales, esta guía no reemplaza las especificaciones de Mule-Hide.

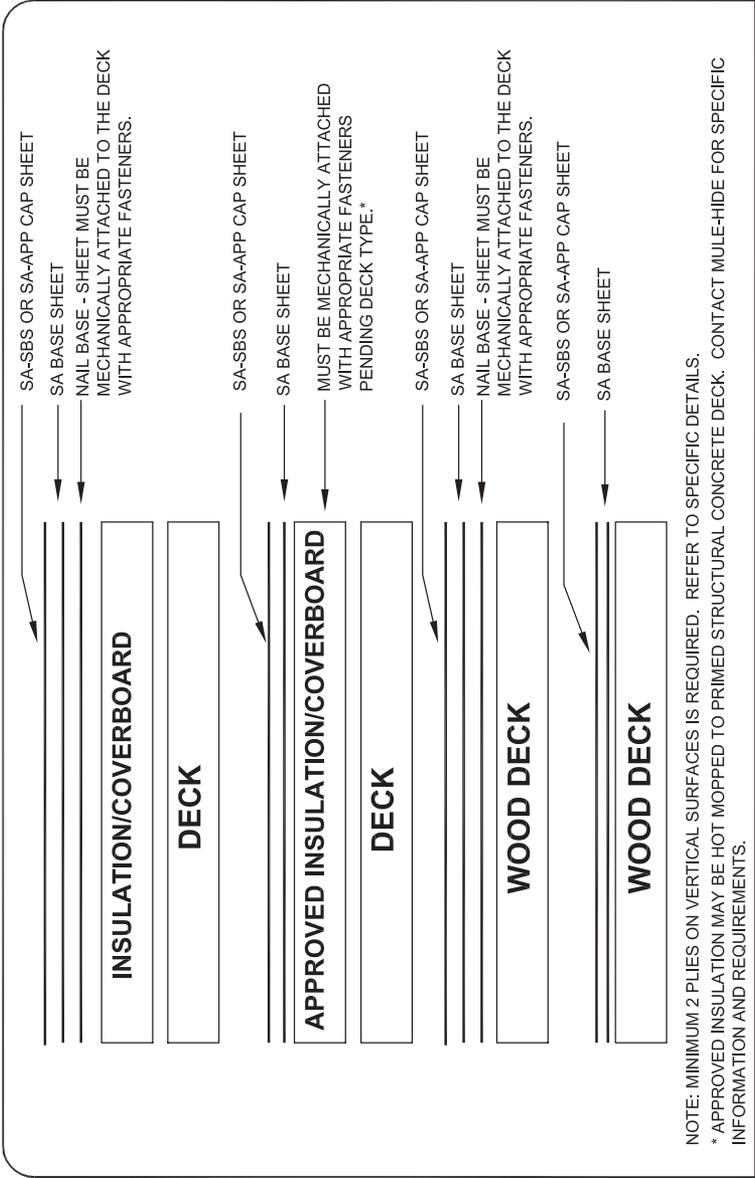
MH-MBA-1



NOTE: MINIMUM OF ONE PLY CAP SHEET ON VERTICAL SURFACES IS REQUIRED. REFER TO SPECIFIC DETAILS.
 * APPROVED INSULATION MAY BE HOT MOPPED TO PRIMED STRUCTURAL CONCRETE DECK. CONTACT MULE-HIDE FOR SPECIFIC INFORMATION AND REQUIREMENTS.

MULE-HIDE PRODUCTS CO.,INC. 2003	10-YEAR MEMBRANE ASSEMBLIES SELF-ADHERING MOD BIT SYSTEMS	DETAIL NO.: MH-MBA-1
---	--	---------------------------------------

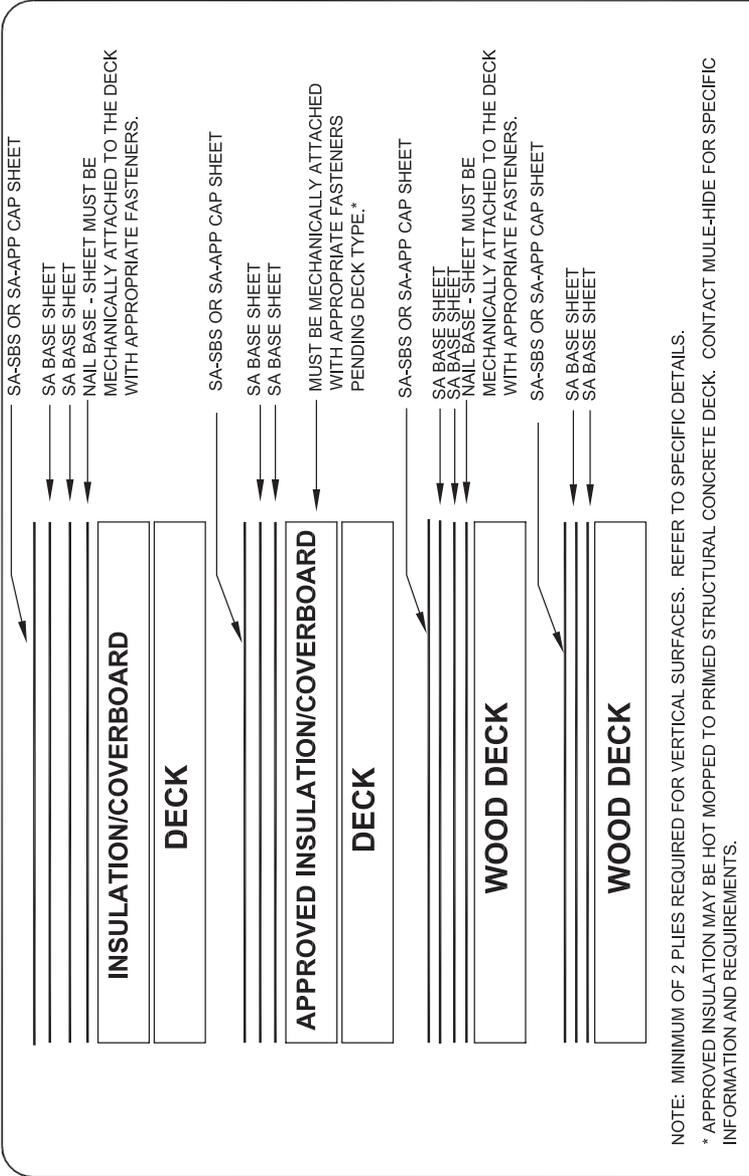
MH-MBA-2



NOTE: MINIMUM 2 PLYES ON VERTICAL SURFACES IS REQUIRED. REFER TO SPECIFIC DETAILS.
 * APPROVED INSULATION MAY BE HOT MOPPED TO PRIMED STRUCTURAL CONCRETE DECK. CONTACT MULE-HIDE FOR SPECIFIC INFORMATION AND REQUIREMENTS.

MULE-HIDE PRODUCTS CO.,INC. 2003	15-YEAR MEMBRANE ASSEMBLIES	DETAIL NO.: MH-MBA-2
	SELF-ADHERING MOD BIT SYSTEMS	

MH-MBA-3



NOTE: MINIMUM OF 2 PLYS REQUIRED FOR VERTICAL SURFACES. REFER TO SPECIFIC DETAILS.

* APPROVED INSULATION MAY BE HOT MOPPED TO PRIMED STRUCTURAL CONCRETE DECK. CONTACT MULE-HIDE FOR SPECIFIC INFORMATION AND REQUIREMENTS.

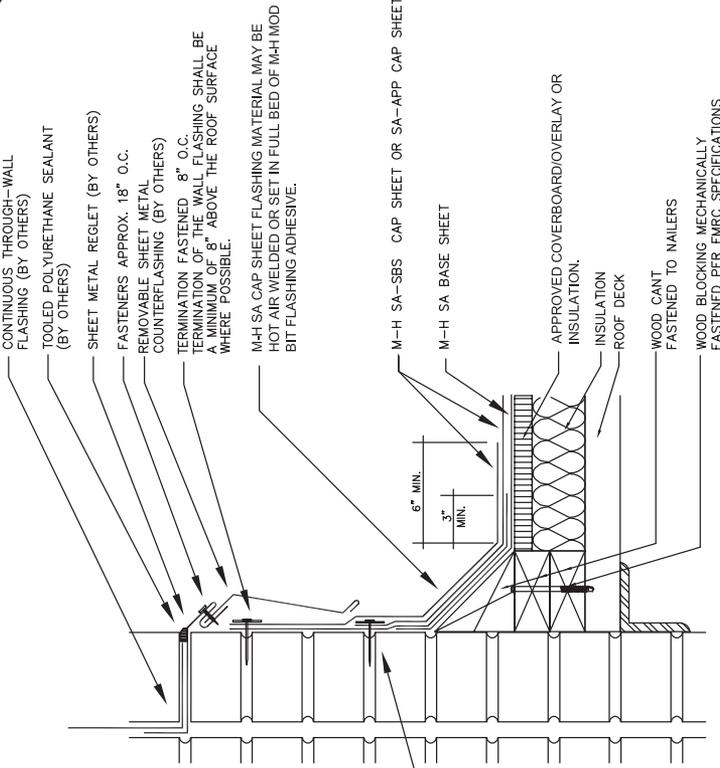
MULE-HIDE PRODUCTS CO.,INC. 2003	20-YEAR MEMBRANE ASSEMBLIES SELF-ADHERING MOD BIT SYSTEMS	DETAIL NO.: MH-MBA-3
---	--	---------------------------------------

MH-MB-C1

NOTES:

1. ACCEPTABLE MASONRY, METAL & WOOD SUBSTRATES MUST BE PRIMED WITH MH # 121 ASPHALT PRIMER PRIOR TO APPLICATION OF SELF-ADHERING MEMBRANES.
2. FLASHING PLIES INSTALLED OVER GRANULAR FIELD SHEET MUST BE SET IN A FULL BEDDING OF M-H MOD BIT FLASHING ADHESIVE OR HOT AIR WELDED.
3. ALL WOOD BLOCKING TO BE ATTACHED PER FMRC GUIDELINES.
4. IF USING A NON-ACCEPTABLE COVERBOARD/OVERLAY OR INSULATION, THE M-H NAIL BASE MUST BE INSTALLED AND MECHANICALLY ATTACHED TO THE DECK PRIOR TO THE INSTALLATION OF EITHER THE SA BASE SHEET OR SA CAP SHEETS.
5. METAL FLASHING (BY OTHERS) SHALL BE INSTALLED FOLLOWING NRCA & SMACNA GUIDELINES.

EXTENSION OF FIELD PLIES ABOVE TOP OF CANT REQUIRED. 1" ABOVE FOR SA BASE SHEET AND 2" ABOVE FOR SA CAP SHEETS. FIELD CAP SHEET TO BE MECHANICALLY ATTACHED 8" ON CENTER.



DETAIL NO.:
MH-MB-C1

BASE FLASHING W/CANT - OPTION 1

SELF-ADHERING MOD BIT SYSTEMS

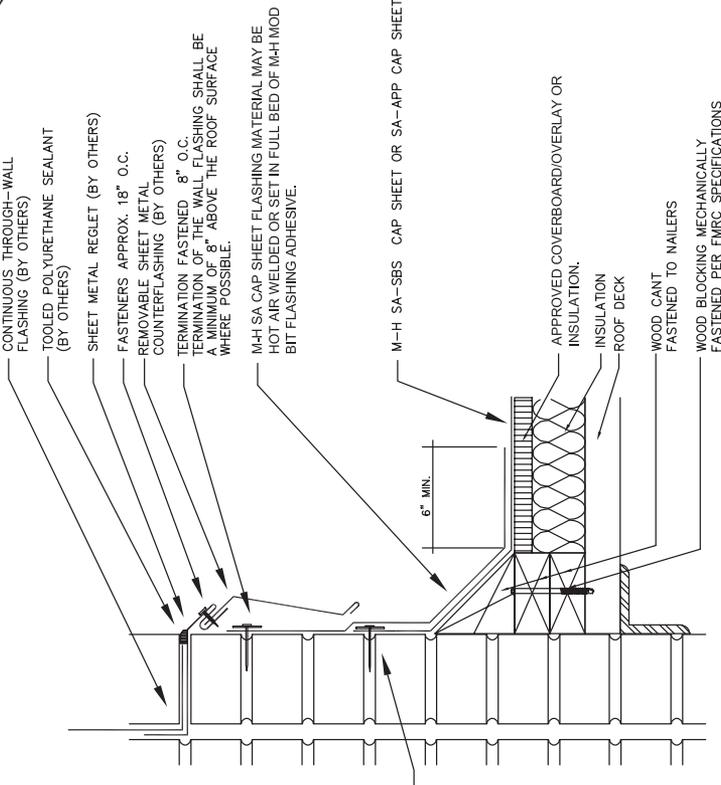
MULE-HIDE
PRODUCTS CO.,INC.
2003

MH-MB-C2

NOTES:

1. ACCEPTABLE MASONRY, METAL & WOOD SUBSTRATES MUST BE PRIMED WITH MH # 121 ASPHALT PRIMER PRIOR TO APPLICATION OF SELF-ADHERING MEMBRANES.
2. FLASHING PLIES INSTALLED OVER GRANULAR FIELD SHEET MUST BE SET IN A FULL BEDDING OF M-H MOD BIT FLASHING ADHESIVE OR HOT AIR WELDED.
3. ALL WOOD BLOCKING TO BE ATTACHED PER FMRC GUIDELINES.
4. IF USING A NON-ACCEPTABLE COVERBOARD/OVERLAY OR INSULATION, THE M-H NAIL BASE MUST BE INSTALLED AND MECHANICALLY ATTACHED TO THE DECK PRIOR TO THE INSTALLATION OF EITHER THE SA BASE SHEET OR SA CAP SHEETS.
5. METAL FLASHING (BY OTHERS) SHALL BE INSTALLED FOLLOWING NRCA & SMACNA GUIDELINES.

EXTENSION OF FIELD CAP SHEET ABOVE TOP OF CANT REQUIRED, 2" ABOVE FOR SA CAP SHEETS. FIELD CAP SHEET TO BE MECHANICALLY ATTACHED 8" ON CENTER.



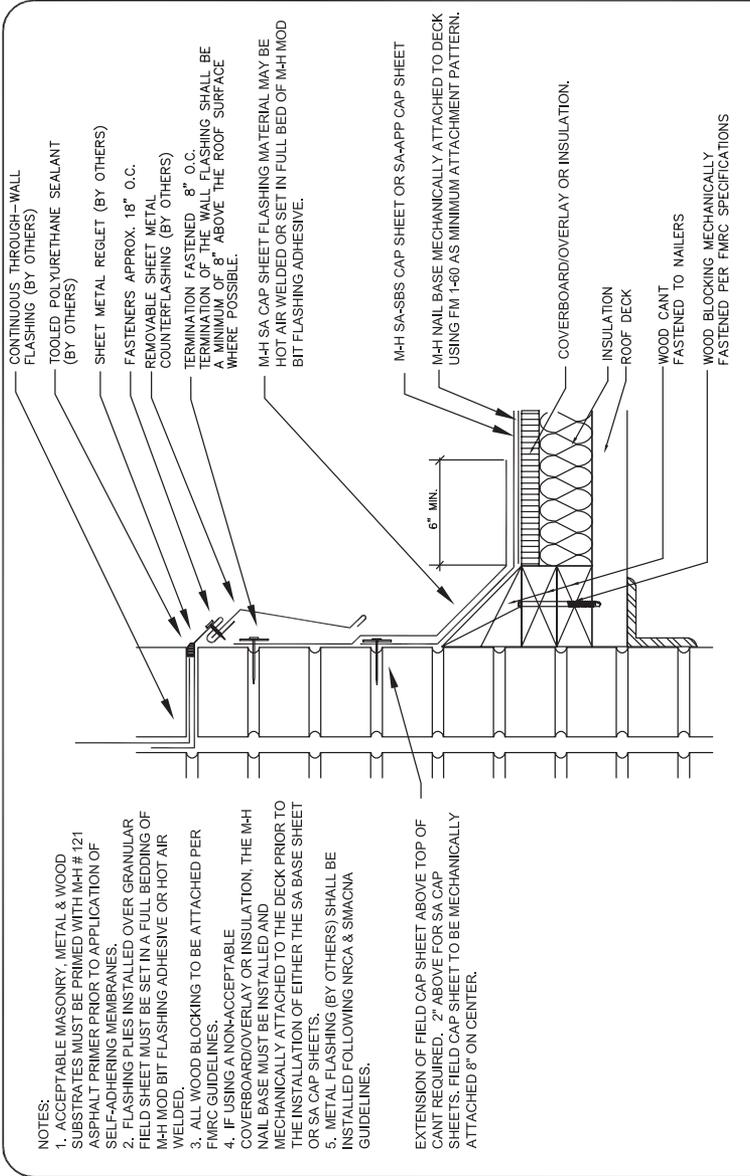
**MULE-HIDE
PRODUCTS CO.,INC.
2003**

BASE FLASHING W/CANT - OPTION 2

SELF-ADHERING MOD BIT SYSTEMS

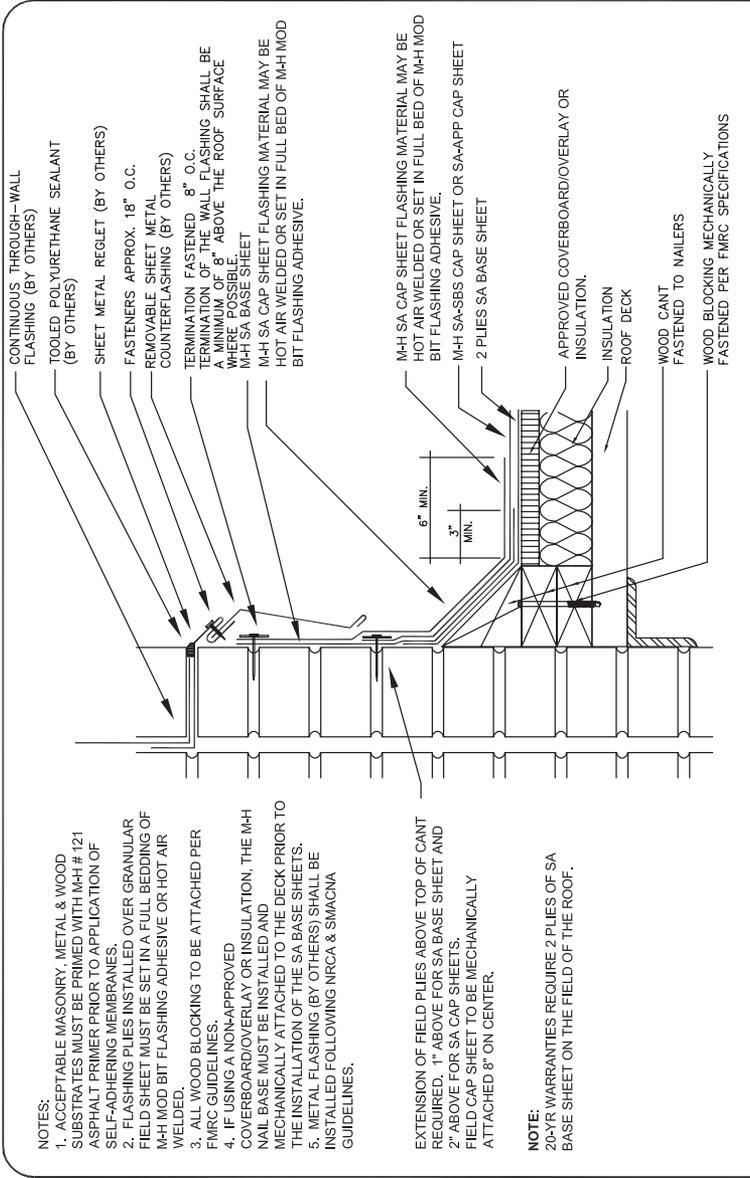
**DETAIL NO.:
MH-MB-C2**

MH-MB-C3



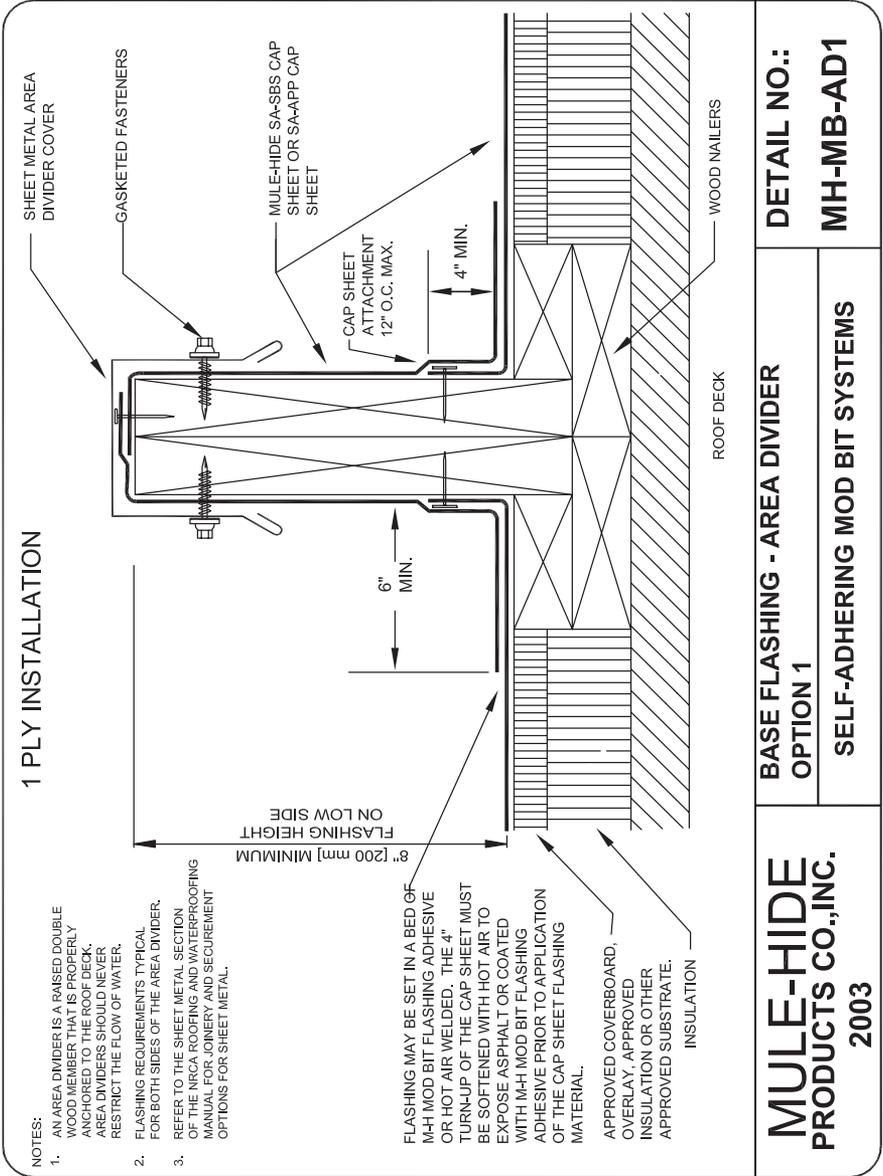
<p>MULE-HIDE PRODUCTS CO.,INC. 2003</p>	<p>BASE FLASHING W/CANT - OPTION 3</p>	<p>DETAIL NO.: MH-MB-C3</p>
	<p>SELF-ADHERING MOD BIT SYSTEMS</p>	

MH-MB-C4

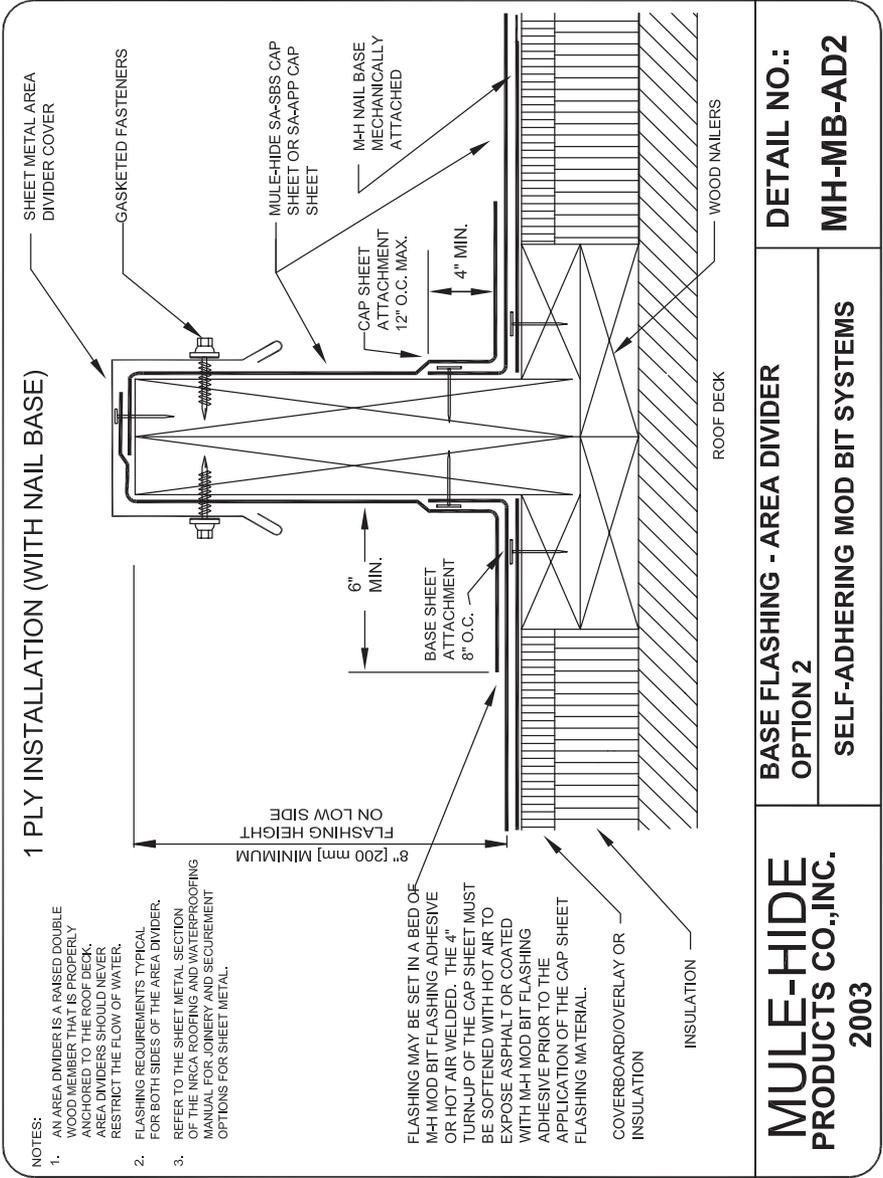


<p>BASE FLASHING W/CANT - OPTION 4</p> <p>SELF-ADHERING MOD BIT SYSTEMS</p>	<p>DETAIL NO.:</p> <p>MH-MB-C4</p>
	<p>MULE-HIDE</p> <p>PRODUCTS CO.,INC.</p> <p>2003</p>

MH-MB-AD1



MH-MB-AD2

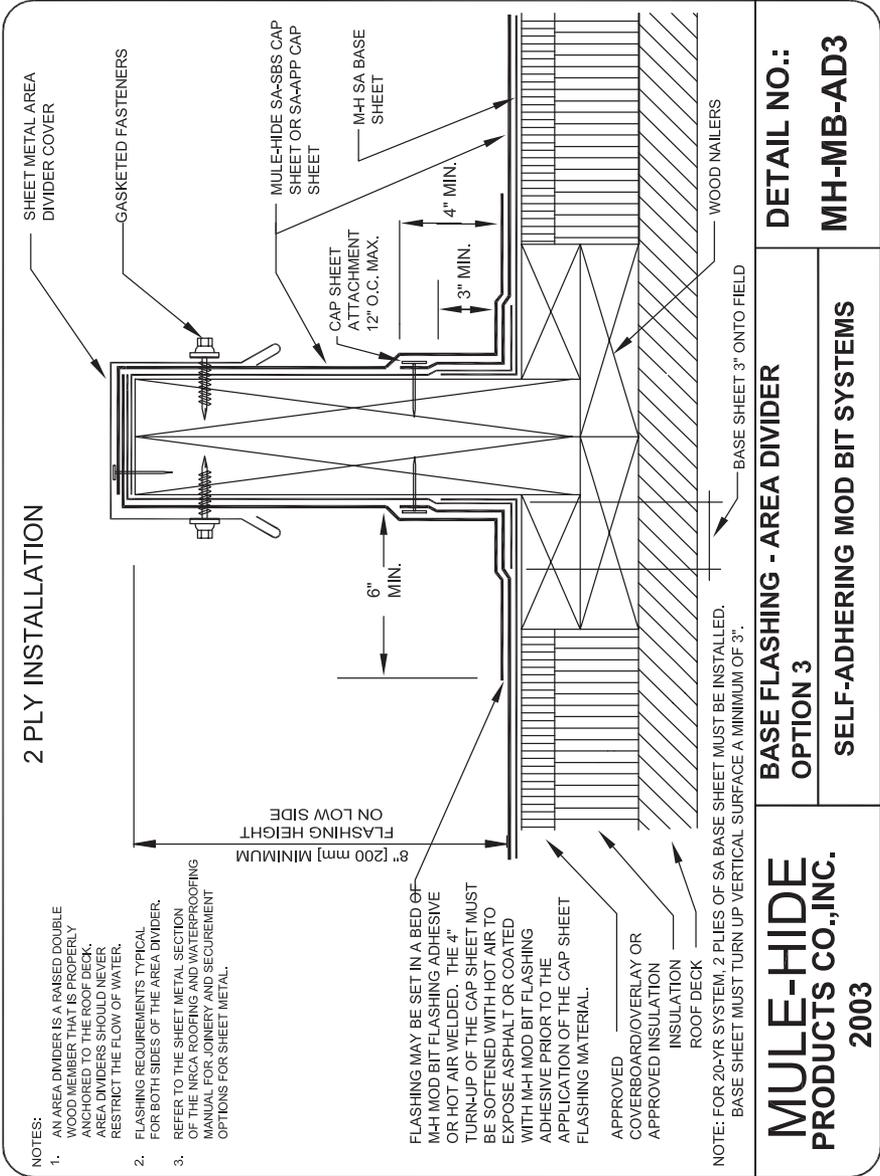


DETAIL NO.:
MH-MB-AD2

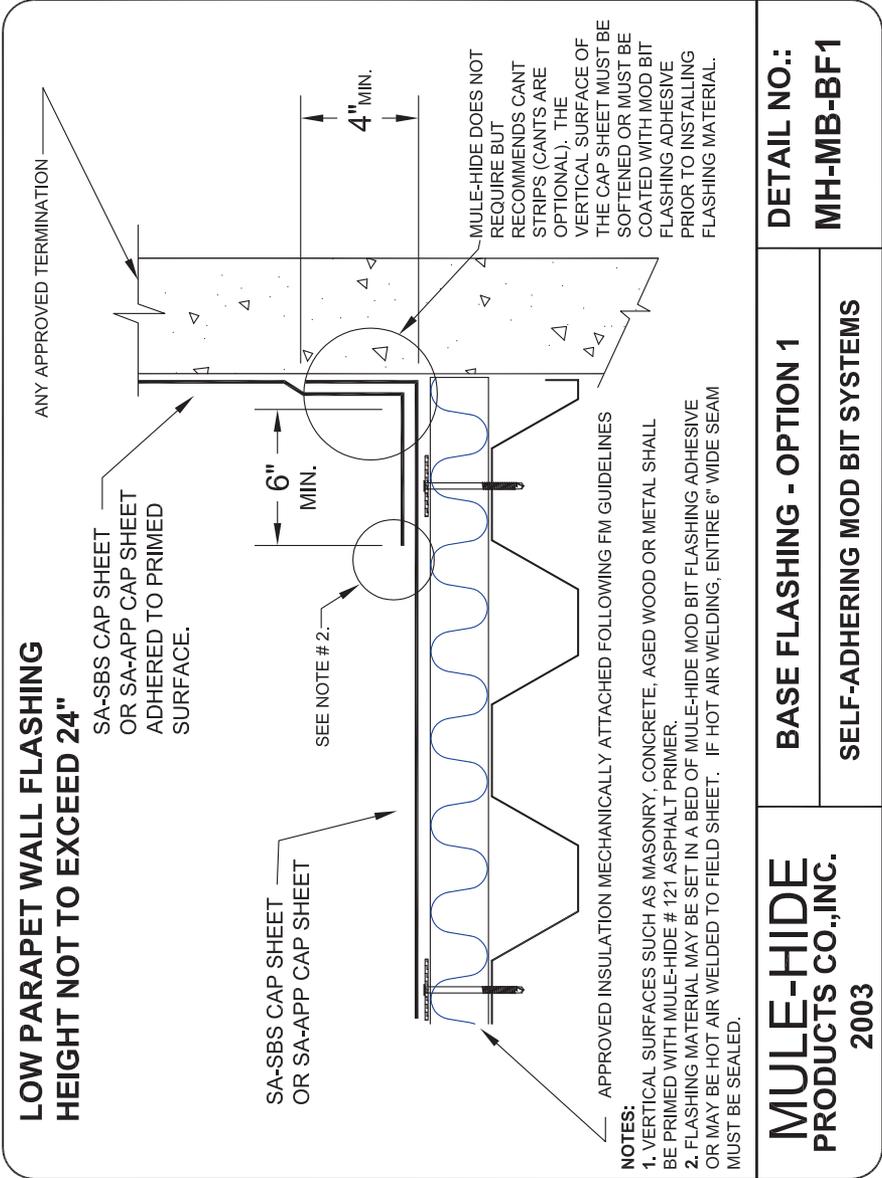
**BASE FLASHING - AREA DIVIDER
OPTION 2**
SELF-ADHERING MOD BIT SYSTEMS

**MULE-HIDE
PRODUCTS CO., INC.
2003**

MH-MB-AD-3



MH-MB-BF1



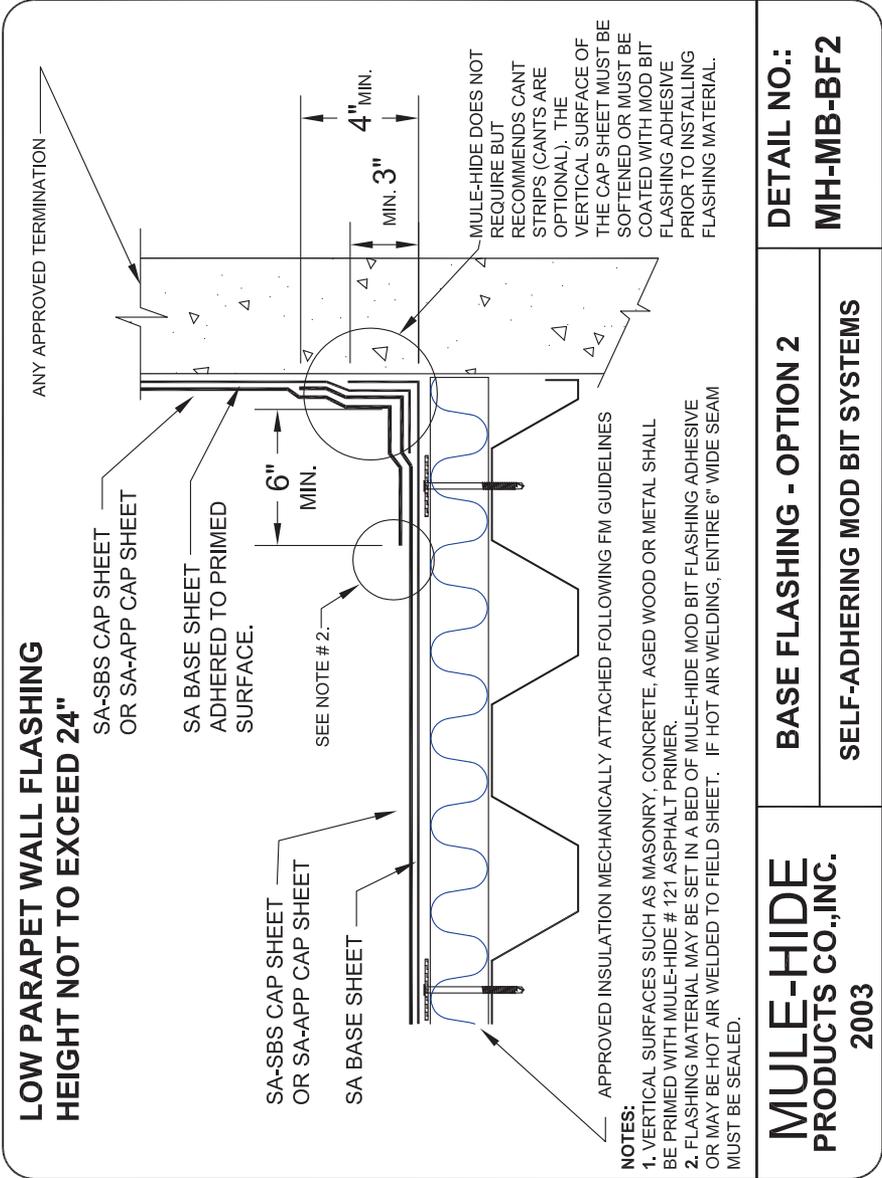
DETAIL NO.:
MH-MB-BF1

BASE FLASHING - OPTION 1

SELF-ADHERING MOD BIT SYSTEMS

**MULE-HIDE
PRODUCTS CO.,INC.
2003**

MH-MB-BF2



DETAIL NO.:
MH-MB-BF2

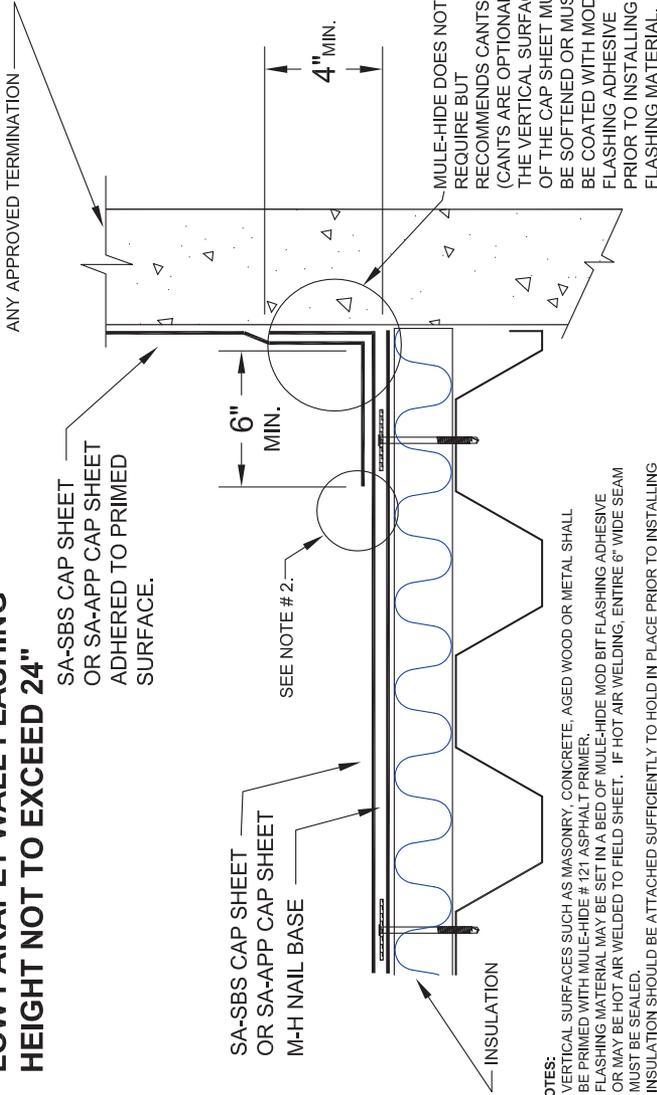
BASE FLASHING - OPTION 2

SELF-ADHERING MOD BIT SYSTEMS

**MULE-HIDE
PRODUCTS CO.,INC.
2003**

MH-MB-BF3

LOW PARAPET WALL FLASHING HEIGHT NOT TO EXCEED 24"



NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER.
2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.
3. INSULATION SHOULD BE ATTACHED SUFFICIENTLY TO HOLD IN PLACE PRIOR TO INSTALLING THE NAIL BASE.
4. NAIL BASE SHALL BE MECHANICALLY ATTACHED IN COMPLIANCE WITH FM ATTACHMENT GUIDELINES. THE MINIMUM ATTACHMENT PATTERN IS FM 1-60. REFER TO DETAIL: MH-MB-NB-FM 1-60.

MULE-HIDE
PRODUCTS CO.,INC.
 2014

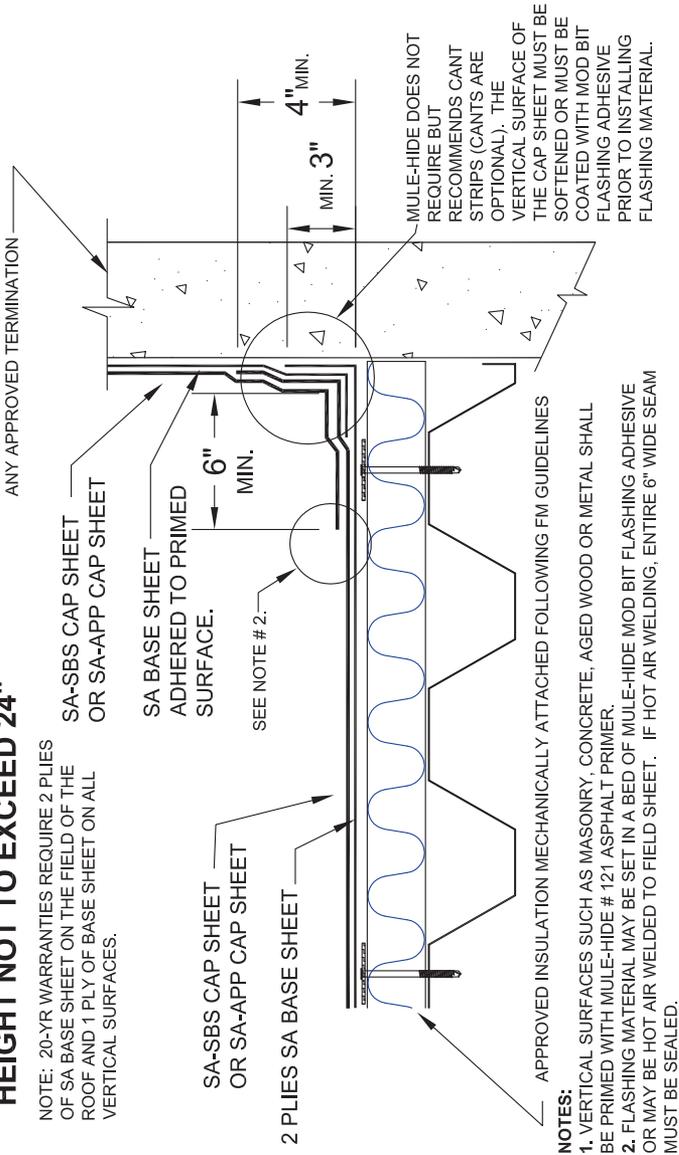
BASE FLASHING - OPTION 3
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-BF3

MH-MB-BF4

LOW PARAPET WALL FLASHING HEIGHT NOT TO EXCEED 24"

NOTE: 20-YR WARRANTIES REQUIRE 2 PLYS OF SA BASE SHEET ON THE FIELD OF THE ROOF AND 1 PLY OF BASE SHEET ON ALL VERTICAL SURFACES.



DETAIL NO.:
MH-MB-BF4

BASE FLASHING - OPTION 4

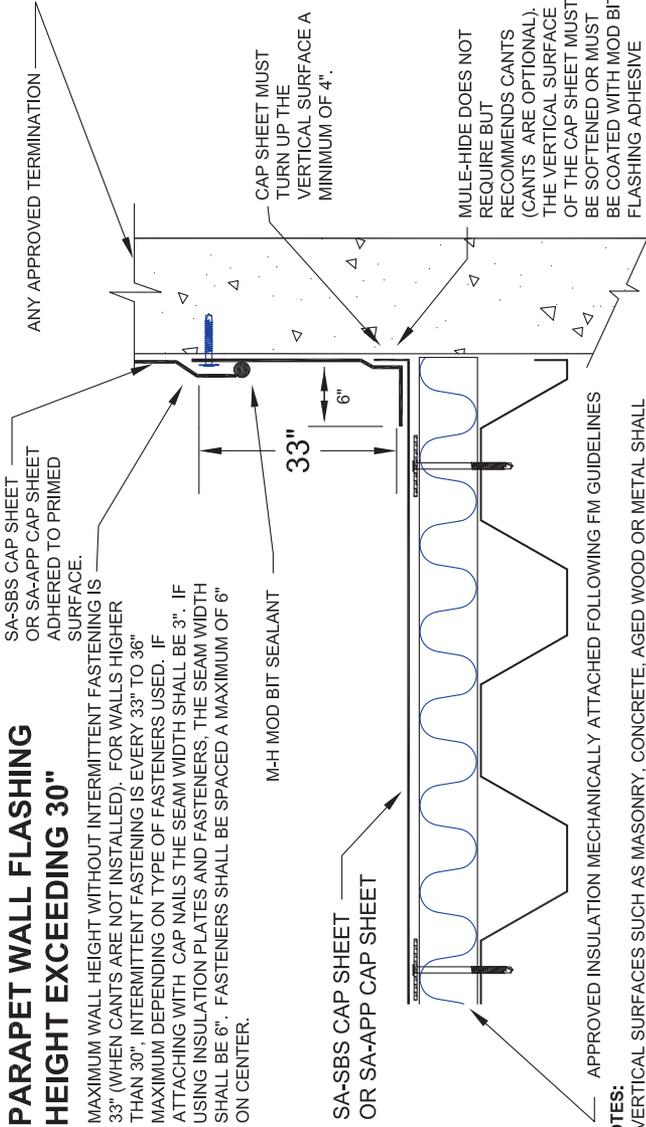
SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO.,INC.
2014

MH-MB-BF5

PARAPET WALL FLASHING HEIGHT EXCEEDING 30"

MAXIMUM WALL HEIGHT WITHOUT INTERMITTENT FASTENING IS 33" (WHEN CANTS ARE NOT INSTALLED). FOR WALLS HIGHER THAN 30", INTERMITTENT FASTENING IS EVERY 33" TO 36" MAXIMUM DEPENDING ON TYPE OF FASTENERS USED. IF ATTACHING WITH CAP NAILS THE SEAM WIDTH SHALL BE 3". IF USING INSULATION PLATES AND FASTENERS, THE SEAM WIDTH SHALL BE 6". FASTENERS SHALL BE SPACED A MAXIMUM OF 6" ON CENTER.



MULE-HIDE DOES NOT REQUIRE BUT RECOMMENDS CANTS (CANTS ARE OPTIONAL). THE VERTICAL SURFACE OF THE CAP SHEET MUST BE SOFTENED OR MUST BE COATED WITH MOD BIT FLASHING ADHESIVE PRIOR TO INSTALLING FLASHING MATERIAL.

- NOTES:**
1. VERTICAL SURFACES SUCH AS MASONRY, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER.
 2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.

MULE-HIDE PRODUCTS CO.,INC. 2014	BASE FLASHING - OPTION 5 SELF-ADHERING MOD BIT SYSTEMS	DETAIL NO.: MH-MB-BF5
---	---	--

MH-MB-BF6

PARAPET WALL FLASHING HEIGHT EXCEEDING 30"

SA-SBS CAP SHEET
OR SA-APP CAP SHEET
ADHERED TO PRIMED
SURFACE.

MAXIMUM WALL HEIGHT WITHOUT INTERMITTENT FASTENING IS 33" (WHEN CANTS ARE NOT INSTALLED). FOR WALLS HIGHER THAN 30", INTERMITTENT FASTENING IS EVERY 33" TO 36" MAXIMUM DEPENDING ON TYPE OF FASTENERS USED. IF ATTACHING WITH CAP NAILS THE SEAM WIDTH SHALL BE 3". IF USING INSULATION PLATES AND FASTENERS, THE SEAM WIDTH SHALL BE 6". FASTENERS SHALL BE SPACED A MAXIMUM OF 6" ON CENTER.

SA-SBS CAP SHEET
OR SA-APP CAP SHEET

NAIL BASE

M-H MOD BIT SEALANT

33"

6"

INSULATION

ANY APPROVED TERMINATION

CAP SHEET MUST TURN UP THE VERTICAL SURFACE A MINIMUM OF 4".

MULE-HIDE DOES NOT REQUIRE BUT RECOMMENDS CANTS (CANTS ARE OPTIONAL). THE VERTICAL SURFACE OF THE CAP SHEET MUST BE SOFTENED OR MUST BE COATED WITH MOD BIT FLASHING ADHESIVE PRIOR TO INSTALLING FLASHING MATERIAL.

NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER.
2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.
3. INSULATION SHOULD BE MECHANICALLY ATTACHED SUFFICIENTLY TO HOLD IN PLACE PRIOR TO INSTALLING THE NAIL BASE.
4. NAIL BASE SHALL BE MECHANICALLY ATTACHED IN COMPLIANCE WITH FM ATTACHMENT GUIDELINES. THE MINIMUM ATTACHMENT PATTERN IS FM 1-60. REFER TO DETAIL: MH-MB-NB-FM 1-60.

MULE-HIDE
PRODUCTS CO.,INC.
2014

BASE FLASHING - OPTION 6

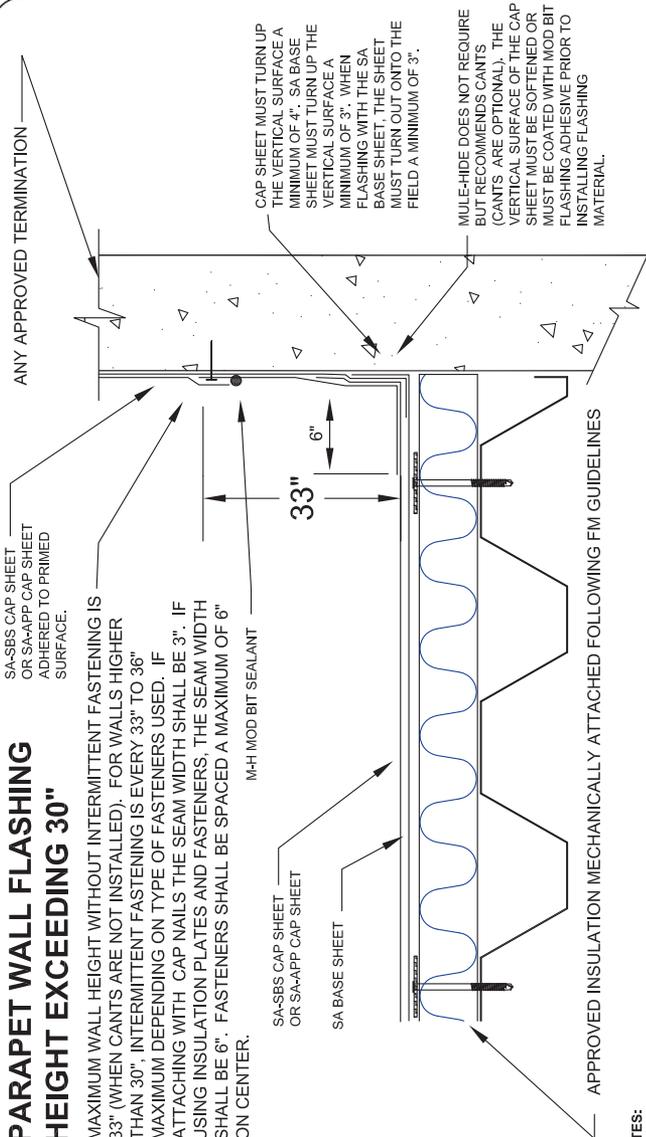
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-BF6

MH-MB-BF7

PARAPET WALL FLASHING HEIGHT EXCEEDING 30"

MAXIMUM WALL HEIGHT WITHOUT INTERMITTENT FASTENING IS 33" (WHEN CANTS ARE NOT INSTALLED). FOR WALLS HIGHER THAN 30", INTERMITTENT FASTENING IS EVERY 33" TO 36" MAXIMUM DEPENDING ON TYPE OF FASTENERS USED. IF ATTACHING WITH CAP NAILS THE SEAM WIDTH SHALL BE 3". IF USING INSULATION PLATES AND FASTENERS, THE SEAM WIDTH SHALL BE 6". FASTENERS SHALL BE SPACED A MAXIMUM OF 6" ON CENTER.



NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER.
2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.

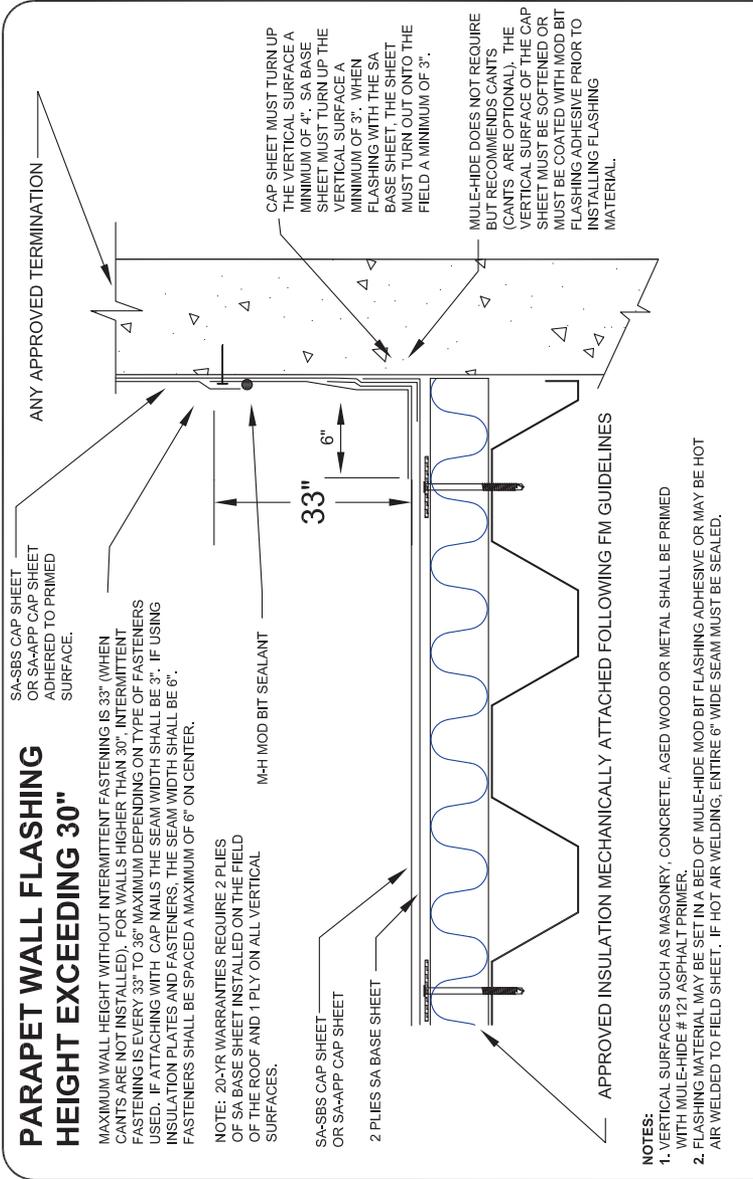
**MULE-HIDE
PRODUCTS CO.,INC.
2003**

BASE FLASHING - OPTION 7

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-BF7

MH-MB-BF8



NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER.
2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.

MULE-HIDE
PRODUCTS CO.,INC.
 2003

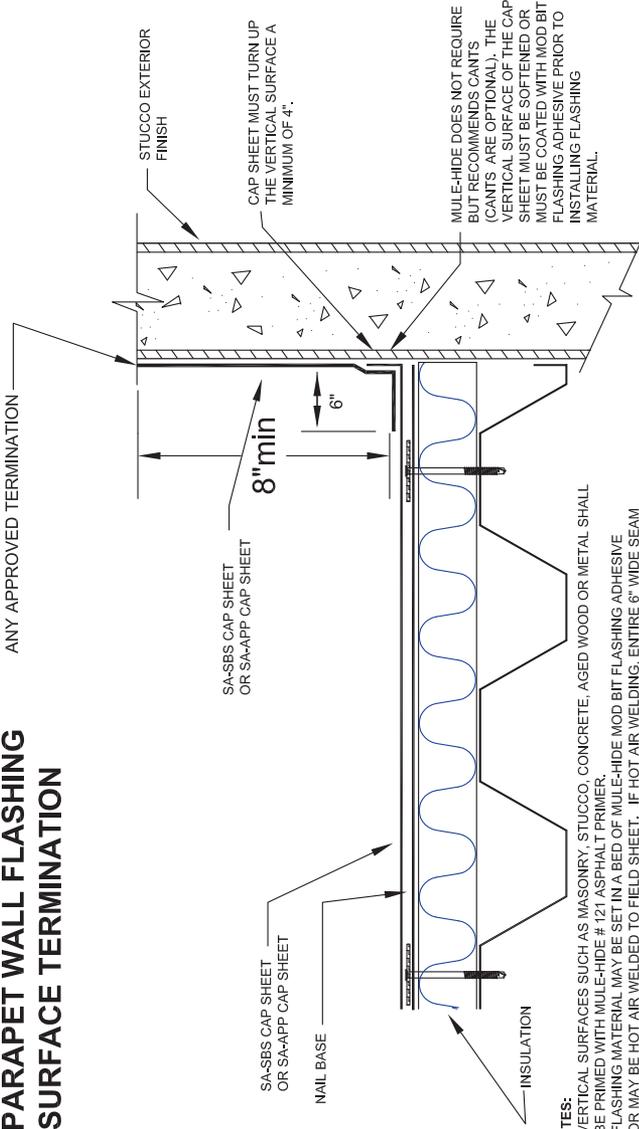
BASE FLASHING - OPTION 8

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-BF8

MH-MB-BF9

PARAPET WALL FLASHING SURFACE TERMINATION



- NOTES:**
1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER.
 2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.
 3. INSULATION SHOULD BE MECHANICALLY ATTACHED SUFFICIENTLY TO HOLD IN PLACE PRIOR TO INSTALLING THE NAIL BASE.
 4. NAIL BASE SHALL BE MECHANICALLY ATTACHED IN COMPLIANCE WITH FM ATTACHMENT GUIDELINES. THE MINIMUM ATTACHMENT PATTERN IS FM 1-60. REFER TO DETAIL: MH-MB-NB-FM 1-60.

DETAIL NO.:
MH-MB-BF9

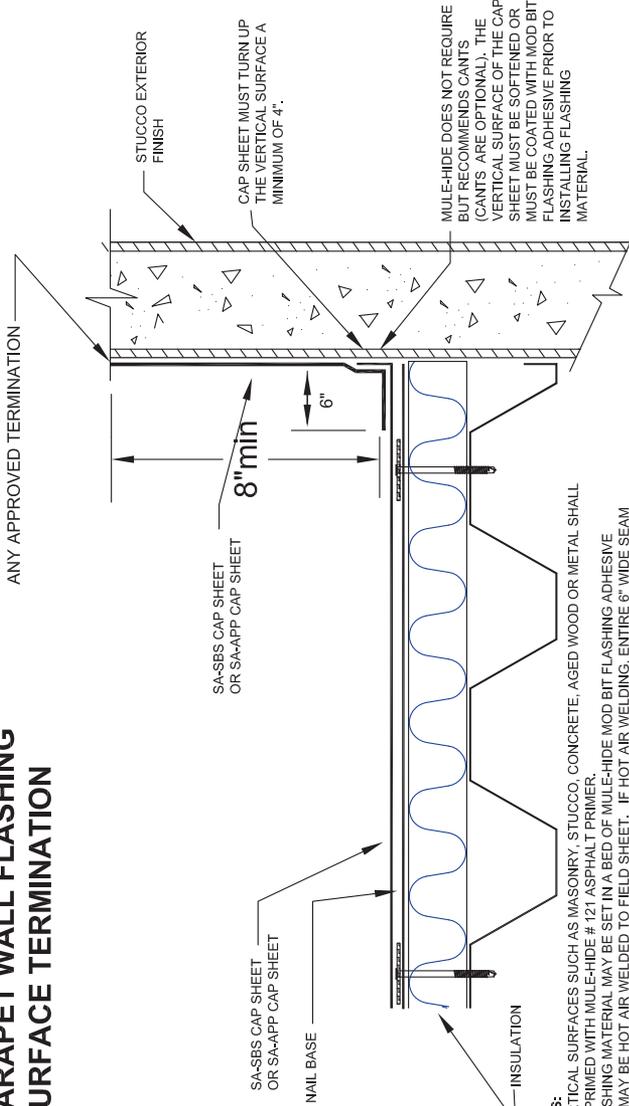
BASE FLASHING - OPTION 9

SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO.,INC.
2003

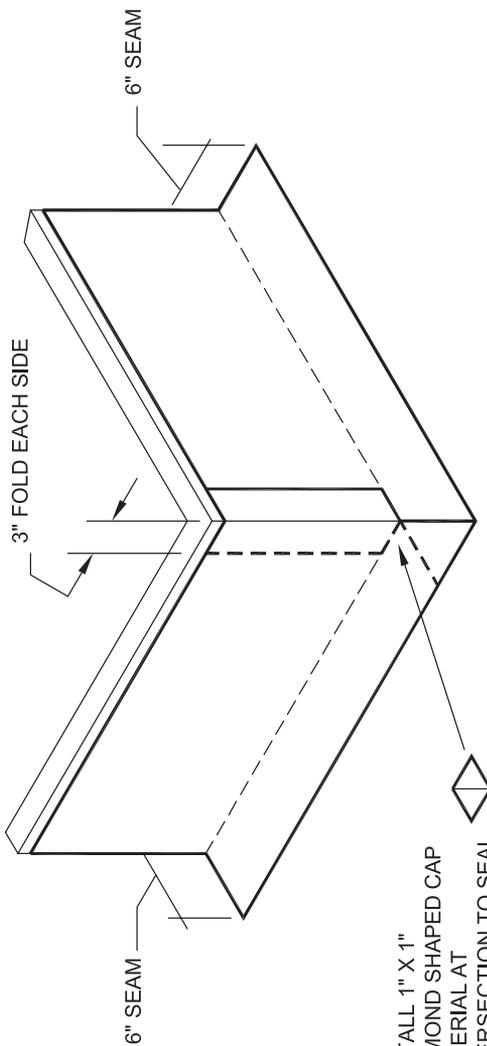
MH-MB-BF10

PARAPET WALL FLASHING SURFACE TERMINATION



- NOTES:**
1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE #121 ASPHALT PRIMER.
 2. FLASHING MATERIAL MAY BE SET IN A BED OF MULE-HIDE MOD BIT FLASHING ADHESIVE OR MAY BE HOT AIR WELDED TO FIELD SHEET. IF HOT AIR WELDING, ENTIRE 6" WIDE SEAM MUST BE SEALED.
 3. INSULATION SHOULD BE MECHANICALLY ATTACHED SUFFICIENTLY TO HOLD IN PLACE PRIOR TO INSTALLING THE NAIL BASE.
 4. NAIL BASE SHALL BE MECHANICALLY ATTACHED IN COMPLIANCE WITH FM ATTACHMENT GUIDELINES. THE MINIMUM ATTACHMENT PATTERN IS FM 1-60. REFER TO DETAIL: MH-MB-NB-FM 1-60.

MULE-HIDE PRODUCTS CO.,INC. 2014	BASE FLASHING - OPTION 10	DETAIL NO.: MH-MB-BF10
	SELF-ADHERING MOD BIT SYSTEMS	

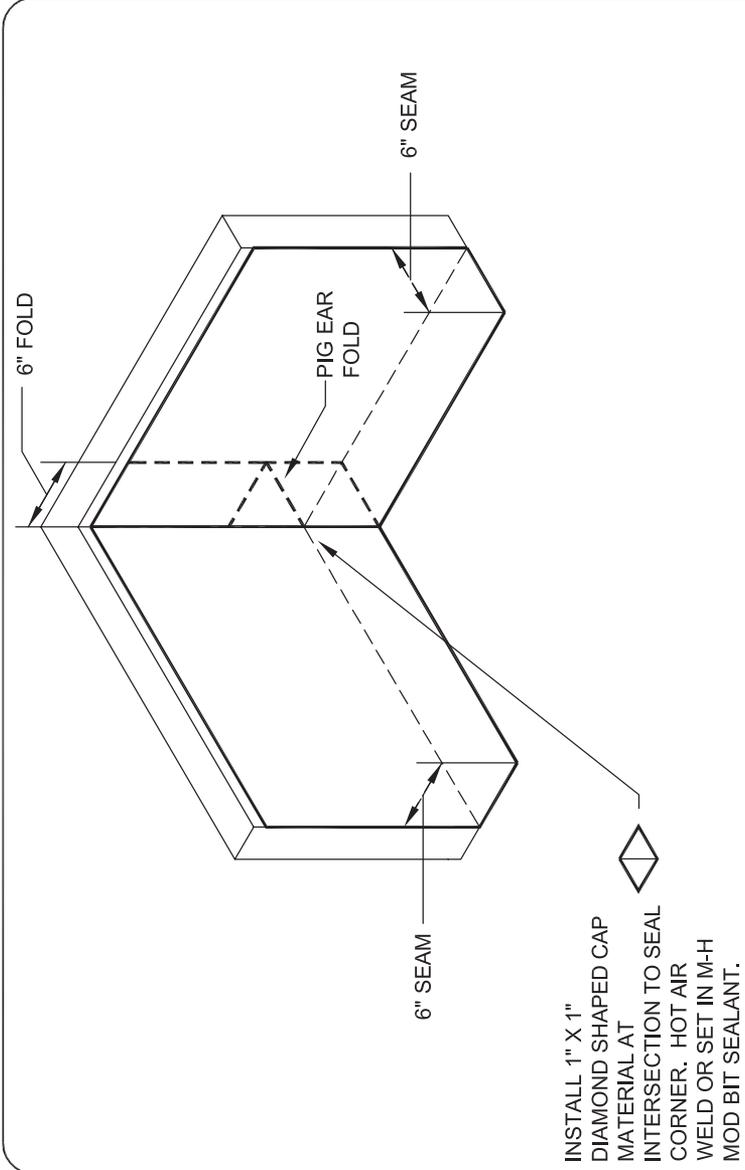


INSTALL 1" X 1"
DIAMOND SHAPED CAP
MATERIAL AT
INTERSECTION TO SEAL
CORNER. HOT AIR
WELD OR SET IN M-H
MOD BIT SEALANT.

**MULE-HIDE
PRODUCTS CO.,INC.
2003**

OUTSIDE CORNER
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-M1



INSTALL 1" X 1" DIAMOND SHAPED CAP MATERIAL AT INTERSECTION TO SEAL CORNER. HOT AIR WELD OR SET IN M-H MOD BIT SEALANT.

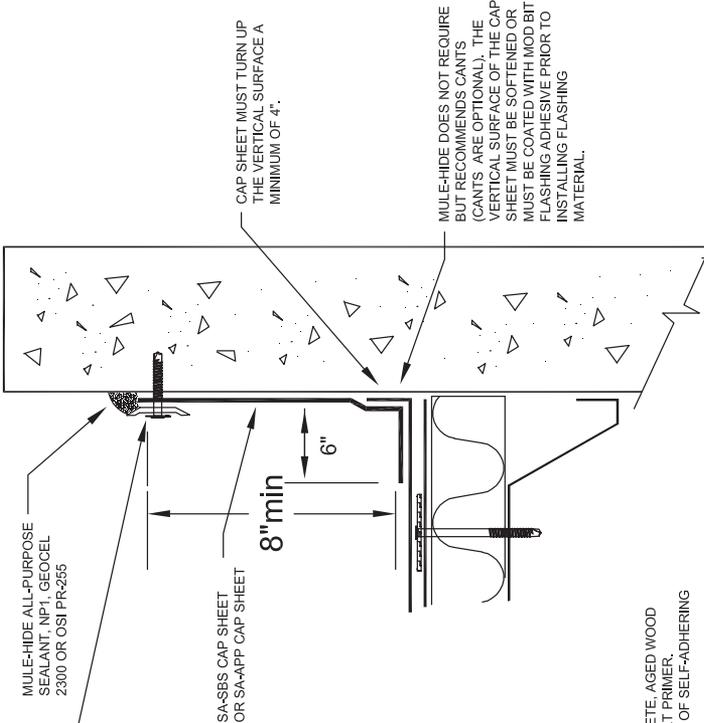


MULE-HIDE PRODUCTS CO.,INC. 2003	INSIDE CORNER SELF-ADHERING MOD BIT SYSTEMS	DETAIL NO.: MH-MB-M2
---	---	---------------------------------------

MH-MB-WFT01

PARAPET WALL FLASHING SURFACE TERMINATION

TOP OF FLASHINGS MUST BE MECHANICALLY TERMINATED WITH TERMINATION BAR AND APPROPRIATE FASTENERS SPACED 6" ON CENTER. THE WALL (CONCRETE, WOOD, ETC.) THE TOP OF THE TERMINATION BAR MUST BE SEALED WITH AN APPROVED CAULK. IF NOT INSTALLING A TERMINATION BAR, THE FLASHING MUST BE MECHANICALLY ATTACHED 8" O.C. AND A METAL COUNTERFLASHING MUST BE INSTALLED TO COVER THE TOP OF THE MOD BIT FLASHING MATERIAL.



CAP SHEET MUST TURN UP THE VERTICAL SURFACE A MINIMUM OF 4".

MULE-HIDE DOES NOT REQUIRE BUT RECOMMENDS CANTS (CANTS ARE OPTIONAL). THE VERTICAL SURFACE OF THE CAP SHEET MUST BE SOFTENED OR MUST BE COATED WITH MOD BIT FLASHING ADHESIVE PRIOR TO INSTALLING FLASHING MATERIAL.

MULE-HIDE ALL-PURPOSE SEALANT, NP1, GEOCEL 2300 OR OSI PR-265

SA-SBS CAP SHEET OR SA-APP CAP SHEET

8" min

6"

- NOTES:**
1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER. PRIMER MUST BE THOROUGHLY DRY BEFORE APPLICATION OF SELF-ADHERING MEMBRANES.

MULE-HIDE
PRODUCTS CO.,INC.
 2003

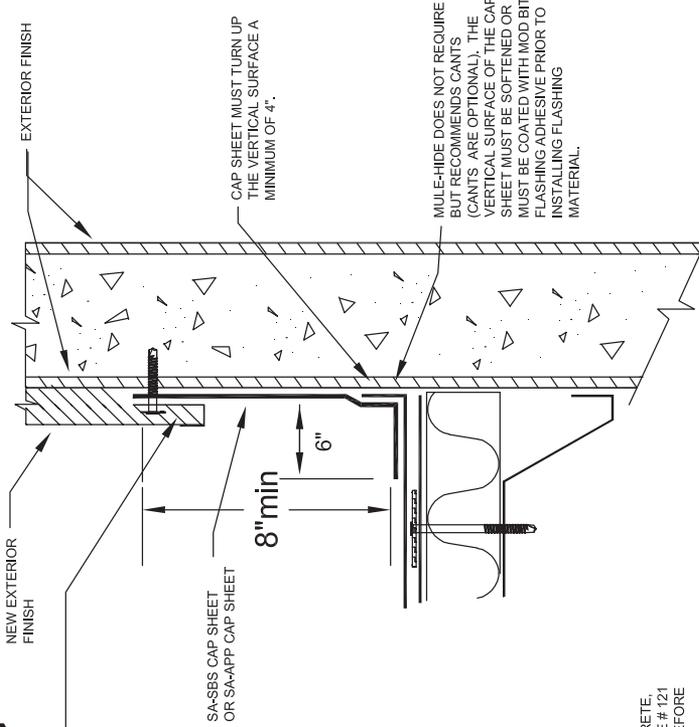
WALL FLASHING TERMINATION - 1
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-WFT01

MH-MB-WFT02

PARAPET WALL FLASHING SURFACE TERMINATION

TOP OF FLASHINGS MUST BE MECHANICALLY TERMINATED. "J" STYLE METAL MATERIAL USED IN CONJUNCTION WITH AN EXTERIOR FINISH MATERIAL (NEW STUCCO OR SIDING) MAY BE INSTALLED OVER THE FLASHINGS (ACTING AS A TERMINATION BARY) WITH APPROPRIATE FASTENERS SPACED 8" ON CENTER. THE FASTENERS MUST PENETRATE AND ANCHOR INTO THE STRUCTURAL WALL (CONCRETE, WOOD, BLOCK, ETC.)



NEW EXTERIOR FINISH

EXTERIOR FINISH

SA-SBS CAP SHEET OR SA-APP CAP SHEET

8" min

6"

MULE-HIDE DOES NOT REQUIRE BUT RECOMMENDS CANTS (CANTS ARE OPTIONAL). THE VERTICAL SURFACE OF THE CAP SHEET MUST BE SOFTENED OR MUST BE COATED WITH MOD BIT FLASHING ADHESIVE PRIOR TO INSTALLING FLASHING MATERIAL.

- NOTES:**
1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER. PRIMER MUST BE THOROUGHLY DRY BEFORE APPLICATION OF SELF-ADHERING MEMBRANES.

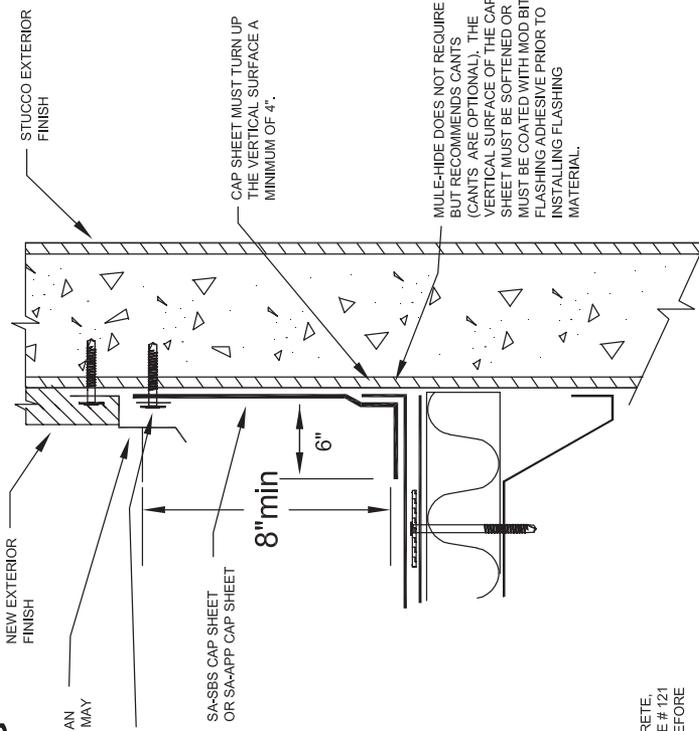
<p>MULE-HIDE PRODUCTS CO.,INC. 2003</p>	<p>WALL FLASHING TERMINATION - 2</p>	<p>DETAIL NO.: MH-MB-WFT02</p>
	<p>SELF-ADHERING MOD BIT SYSTEMS</p>	

MH-MB-WFT03

PARAPET WALL FLASHING SURFACE TERMINATION

"Z" STYLE METAL MATERIAL USED IN CONJUNCTION WITH AN EXTERIOR FINISH MATERIAL (NEW STUCCO, SIDING, ETC.) MAY BE INSTALLED OVER THE FLASHINGS.

THE TOP OF THE SELF-ADHERING MOD BIT FLASHINGS MUST BE MECHANICALLY ATTACHED WITH APPROPRIATE FASTENERS SPACED A MAXIMUM OF 8" ON CENTER. THE FASTENERS MUST PENETRATE AND ANCHOR INTO THE STRUCTURAL WALL (CONCRETE, WOOD, BLOCK, ETC.).



MULE-HIDE DOES NOT REQUIRE BUT RECOMMENDS CANTS (CANTS ARE OPTIONAL). THE VERTICAL SURFACE OF THE CAP SHEET MUST BE SOFTENED OR MUST BE COATED WITH MOD BIT FLASHING ADHESIVE PRIOR TO INSTALLING FLASHING MATERIAL.

NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER. PRIMER MUST BE THOROUGHLY DRY BEFORE APPLICATION OF SELF-ADHERING MEMBRANES.

MULE-HIDE
PRODUCTS CO.,INC.
 2003

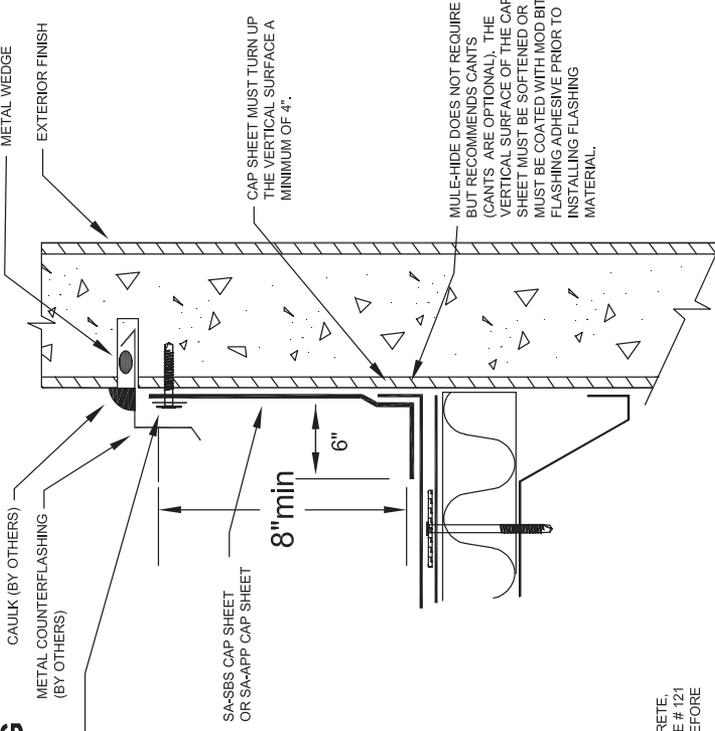
WALL FLASHING TERMINATION - 3
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-WFT03

MH-MB-WF04

PARAPET WALL FLASHING REGLET TERMINATION

TOP OF FLASHINGS MUST BE MECHANICALLY TERMINATED. SELF-ADHERING MOD BIT FLASHINGS MUST BE FASTENED WITH APPROPRIATE FASTENERS SPACED A MAXIMUM OF 8" ON CENTER. THE FASTENERS MUST PENETRATE AND ANCHOR INTO THE STRUCTURAL WALL (CONCRETE, WOOD, BLOCK, ETC.)



NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER. PRIMER MUST BE THOROUGHLY DRY BEFORE APPLICATION OF SELF-ADHERING MEMBRANES.

MULE-HIDE
PRODUCTS CO.,INC.
 2003

WALL FLASHING TERMINATION - 4

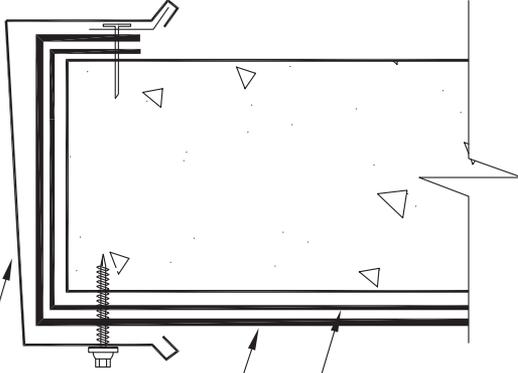
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-WFT04

MH-MB-WFT05

PARAPET WALL FLASHING COPING CAP TERMINATION

OUTSIDE FACE OF FLASHINGS MUST BE MECHANICALLY TERMINATED UNDER THE COPING CAP. CONTINUOUS CLEAT FASTENED 12" O.C., MAX. MUST BE USED WHENEVER OUTSIDE FACE DIMENSION IS 4" OR MORE. FASTEN INSIDE FACE OF COPING 24" ON CENTER WITH GROMMETTED FASTENERS.



SA-SBS CAP SHEET
OR SA-APP CAP SHEET

SA-BASE SHEET
AS REQUIRED FOR
WARRANTY

NOTES:

1. VERTICAL SURFACES SUCH AS MASONRY, STUCCO, CONCRETE, AGED WOOD OR METAL SHALL BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER. PRIMER MUST BE THOROUGHLY DRY BEFORE APPLICATION OF SELF-ADHERING MEMBRANES.

MULE-HIDE
PRODUCTS CO.,INC.
2003

WALL FLASHING TERMINATION - 5

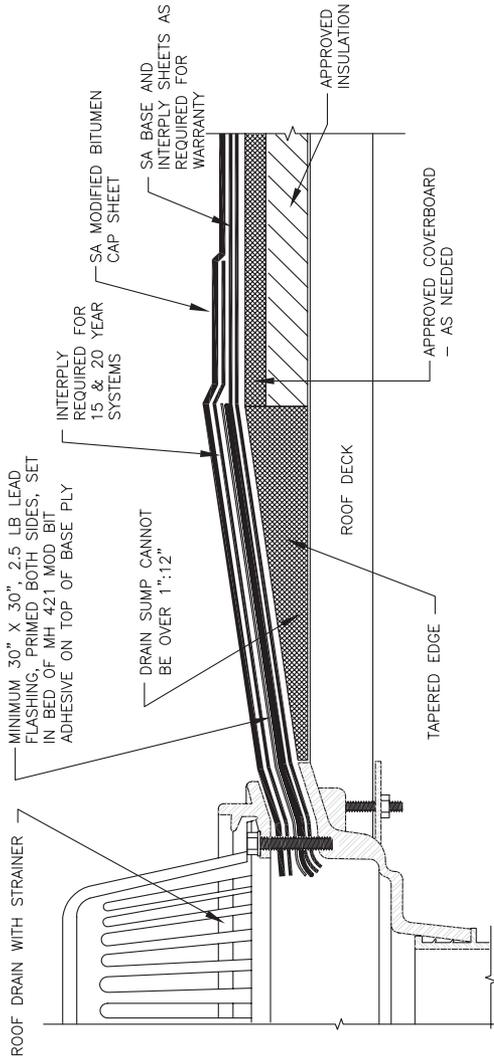
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-WFT05

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS
2. IF DRAIN SUMP IS GREATER THAN 1":12", A RETROFIT DRAIN INSERT MUST BE USED
3. A TARGET PATCH OF SA BASE IS REQUIRED IF A FIELD SEAM IS WITHIN 6" - 9" OF CLAMPING RING
4. NO SEAM CAN BE LESS THAN 6" FROM THE DRAIN CLAMPING RING



ROOF DRAIN

SYSTEMS:

SELF-ADHERING MODIFIED BITUMEN

DETAIL NO.:

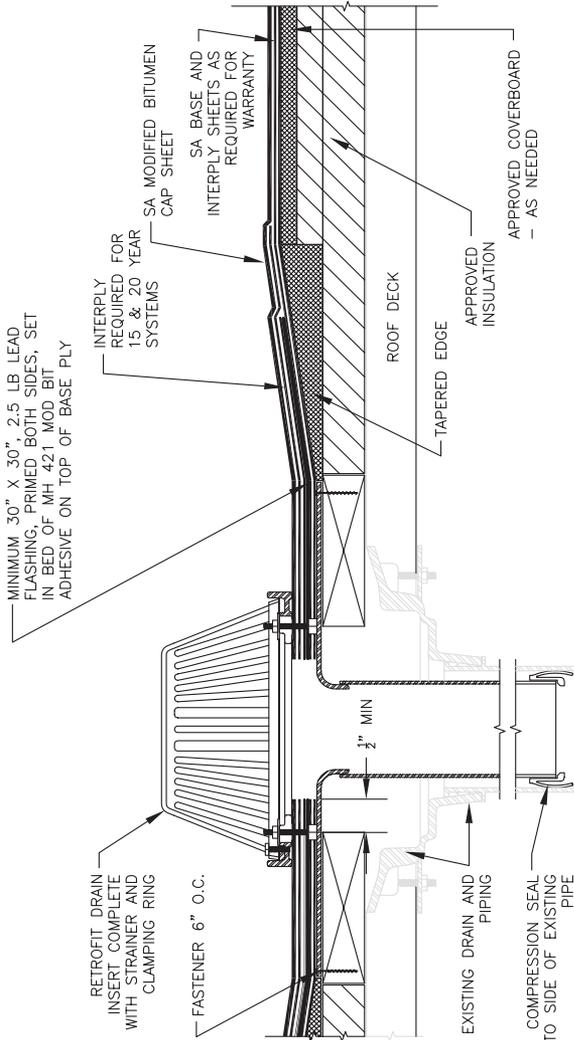
MH-MB-D1

REVISION DATE: OCTOBER 2015

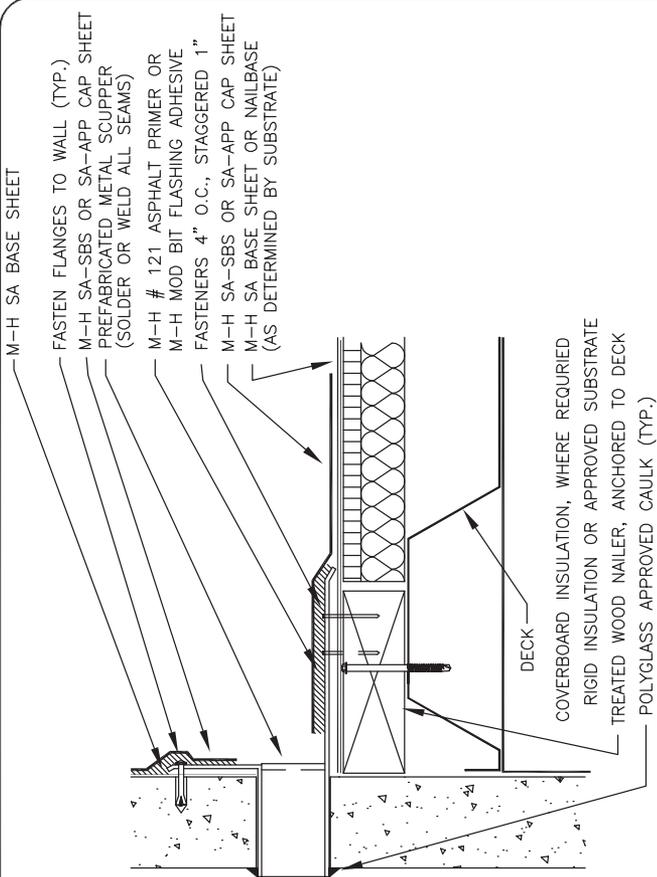
**MULE-HIDE
PRODUCTS CO., INC.**

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS
2. WOOD NAILERS MUST BE INSTALLED AROUND DRAIN
3. A TARGET PATCH OF SA, BASE MODIFIED BITUMEN IS REQUIRED IF A FIELD SEAM IS WITHIN 6" - 9" OF CLAMPING RING
4. NO SEAM CAN BE LESS THAN 6" FROM THE DRAIN CLAMPING RING



MULE-HIDE PRODUCTS CO., INC.	RETROFIT DRAIN INSERT SYSTEMS:	DETAIL NO.: MH-MB-D2
	SELF-ADHERING MODIFIED BITUMEN	REVISION DATE: MARCH 2015

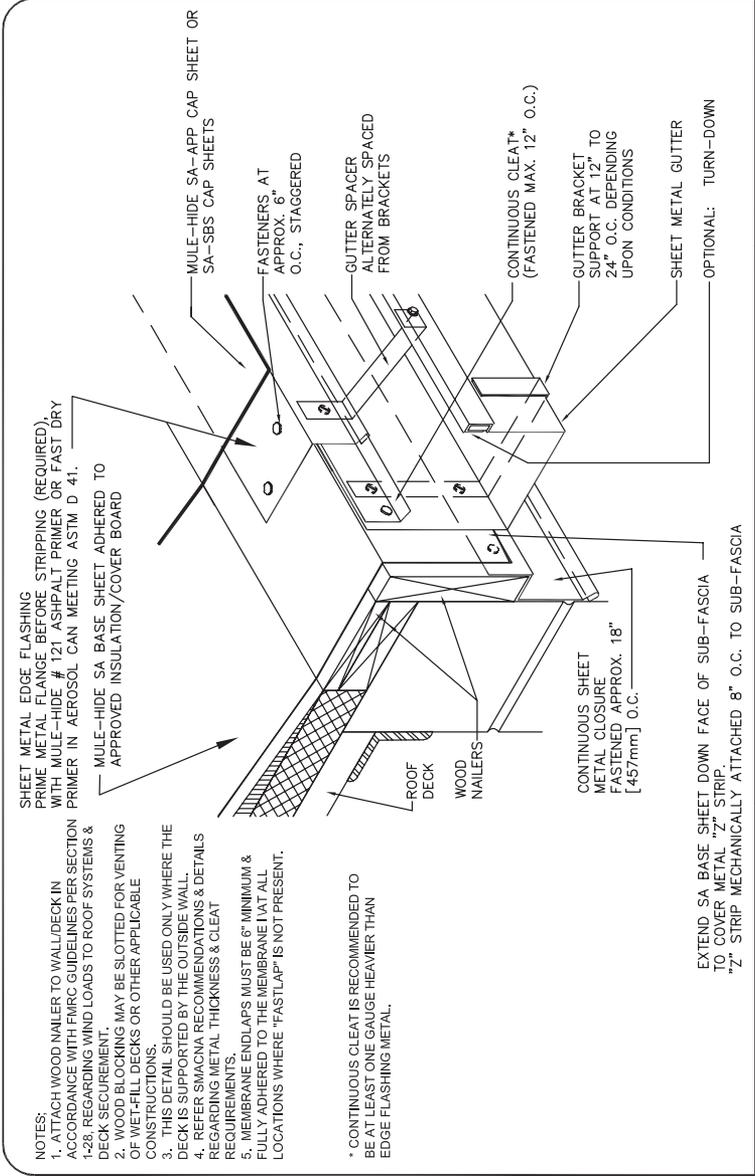


NOTES:

1. MEMBRANE ENDLAPS MUST BE 6" MINIMUM & FULLY ADHERED AT ALL MEMBRANE IN ALL LOCATIONS WHERE "FAST LAP" IS NOT PRESENT

MULE-HIDE PRODUCTS CO.,INC. 2003	SCUPPER - OPTION 1	DETAIL NO.: MH-MB-S1
	SELF-ADHERING MOD BIT SYSTEMS	

MH-MB-G1



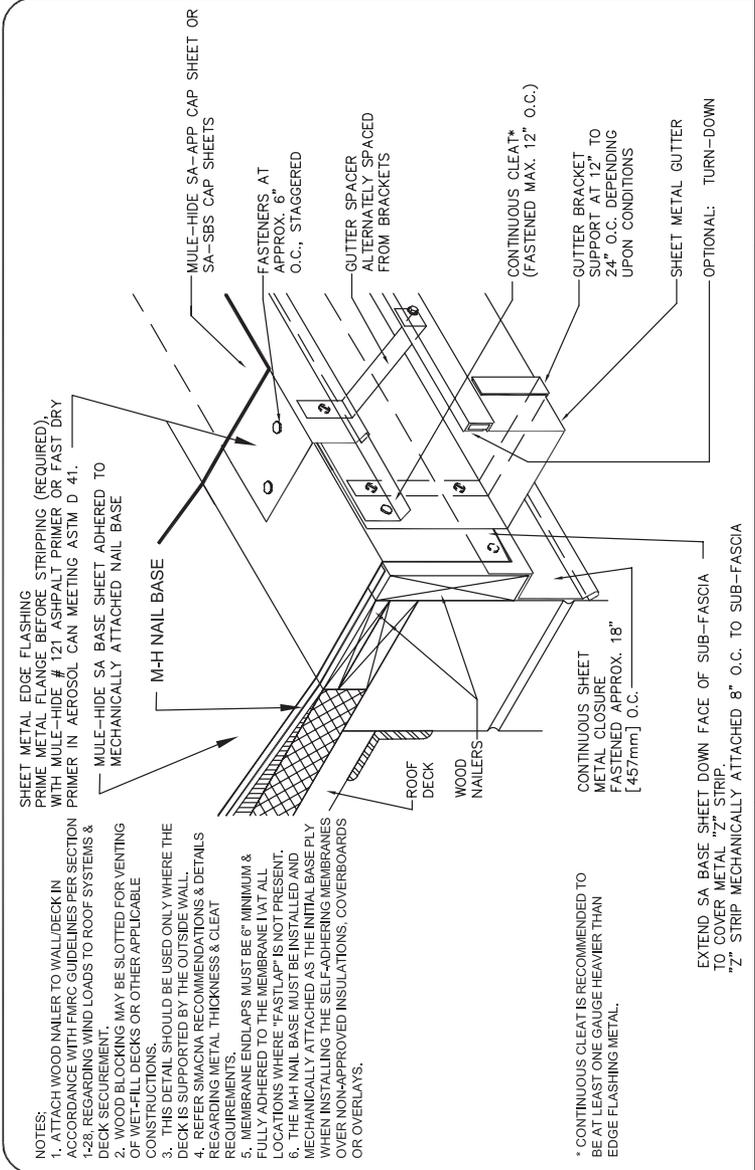
DETAIL NO.:
MH-MB-G1

GUTTER DETAIL - OPTION 1

SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO.,INC.
2003

MH-MB-G2



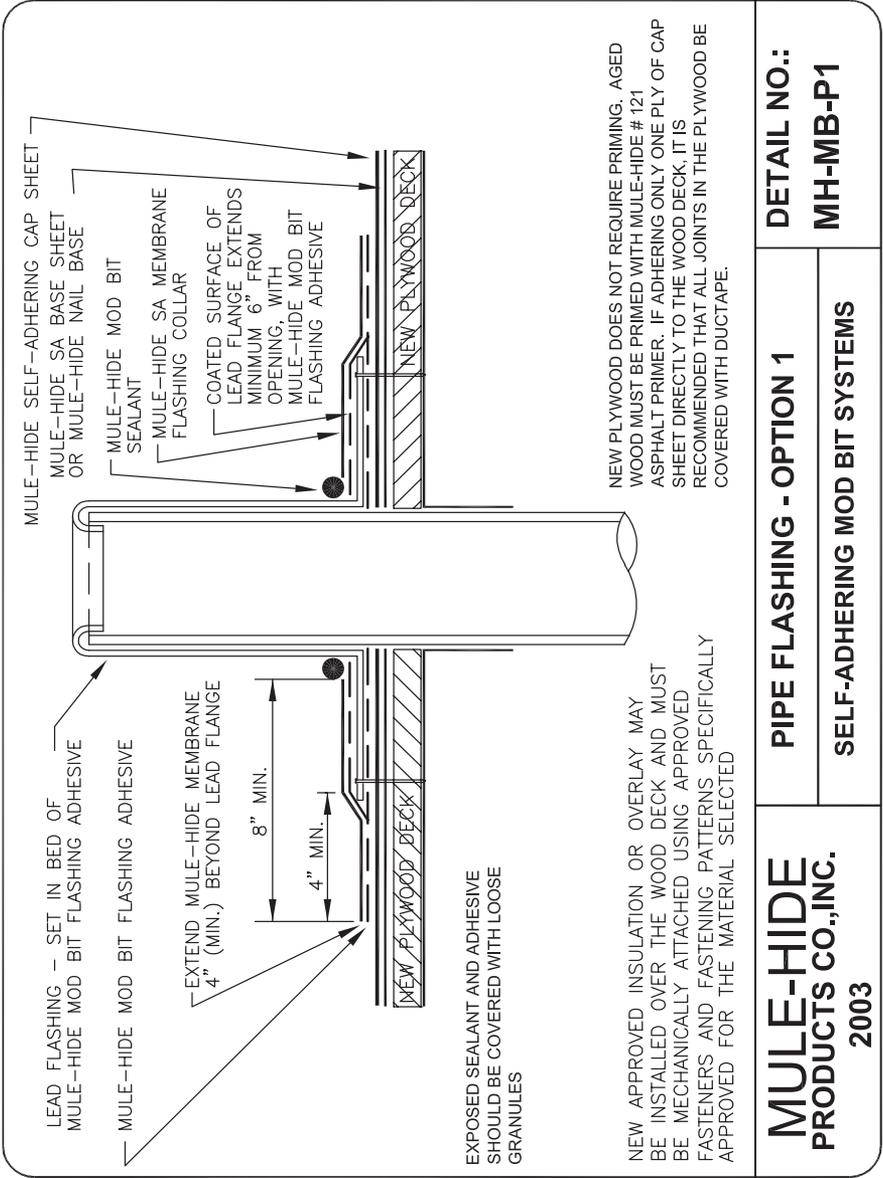
- NOTES:**
1. ATTACH WOOD NAILER TO WALL/DECK IN ACCORDANCE WITH FIRC GUIDELINES PER SECTION 4.22. REPAIRING WIND LOADS TO ROOF SYSTEMS & DECKING.
 2. WOOD BLOCKING MAY BE SLOTTED FOR VENTING OF WET-BILL DECKS OR OTHER APPLICABLE CONSTRUCTIONS.
 3. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL.
 4. REFER SMACNA RECOMMENDATIONS & DETAILS REGARDING METAL THICKNESS & CLEAT REQUIREMENTS.
 5. MEMBRANE ENDLAPS MUST BE 6" MINIMUM & FULLY ADHERED TO THE MEMBRANE IN ALL LOCATIONS WHERE "FAST LAP" IS NOT PRESENT.
 6. THE M-H NAIL BASE MUST BE INSTALLED AND MECHANICALLY ATTACHED AS THE INITIAL BASE PLY WHEN INSTALLING THE SELF-ADHERING MEMBRANES OVER NON-APPROVED INSULATIONS, COVERBOARDS OR OVERLAYS.

* CONTINUOUS CLEAT IS RECOMMENDED TO BE AT LEAST ONE GAUGE HEAVIER THAN EDGE FLASHING METAL.

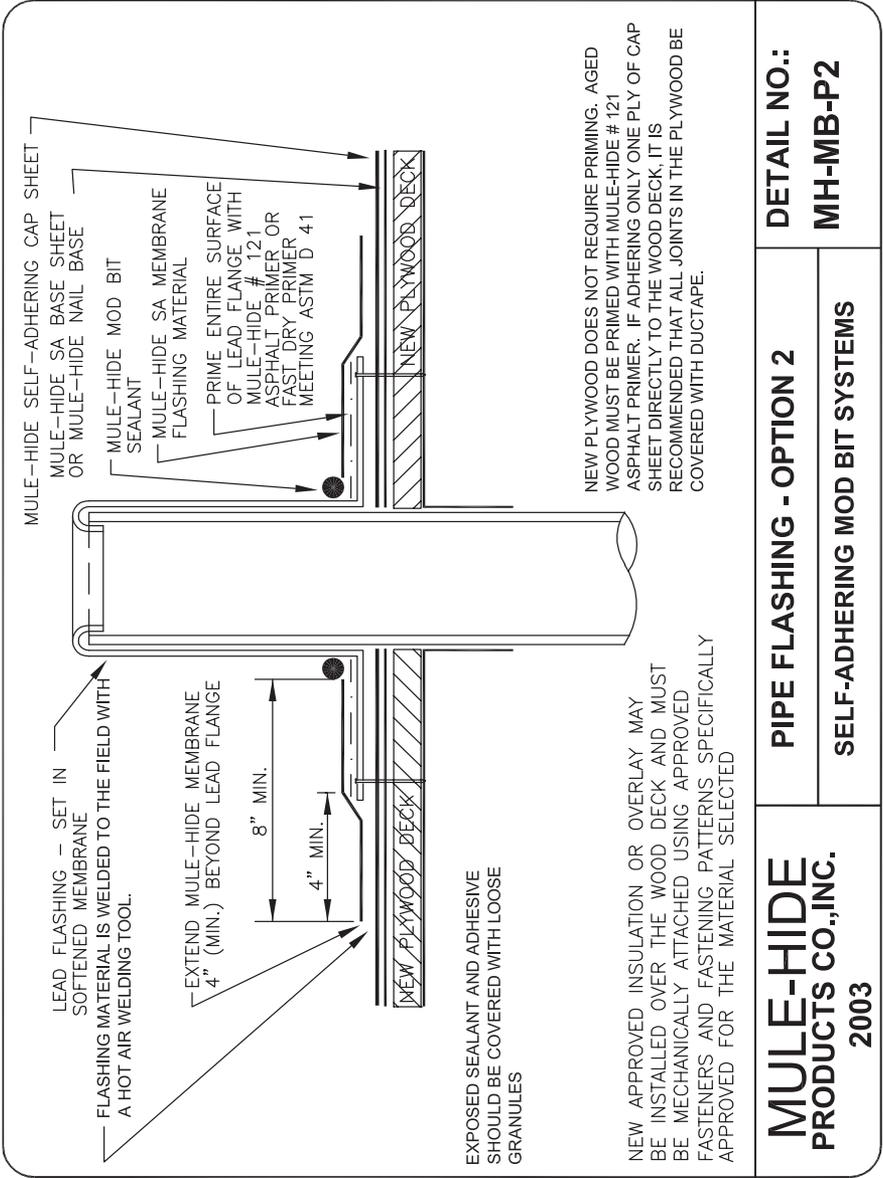
EXTEND SA BASE SHEET DOWN FACE OF SUB-FASCIA TO COVER METAL "Z" STRIP.
 "Z" STRIP MECHANICALLY ATTACHED 8" O.C. TO SUB-FASCIA

MULE-HIDE PRODUCTS CO.,INC. 2003	GUTTER DETAIL - OPTION 2	DETAIL NO.: MH-MB-G2
	SELF-ADHERING MOD BIT SYSTEMS	

MH-MB-P1



MH-MB-P2



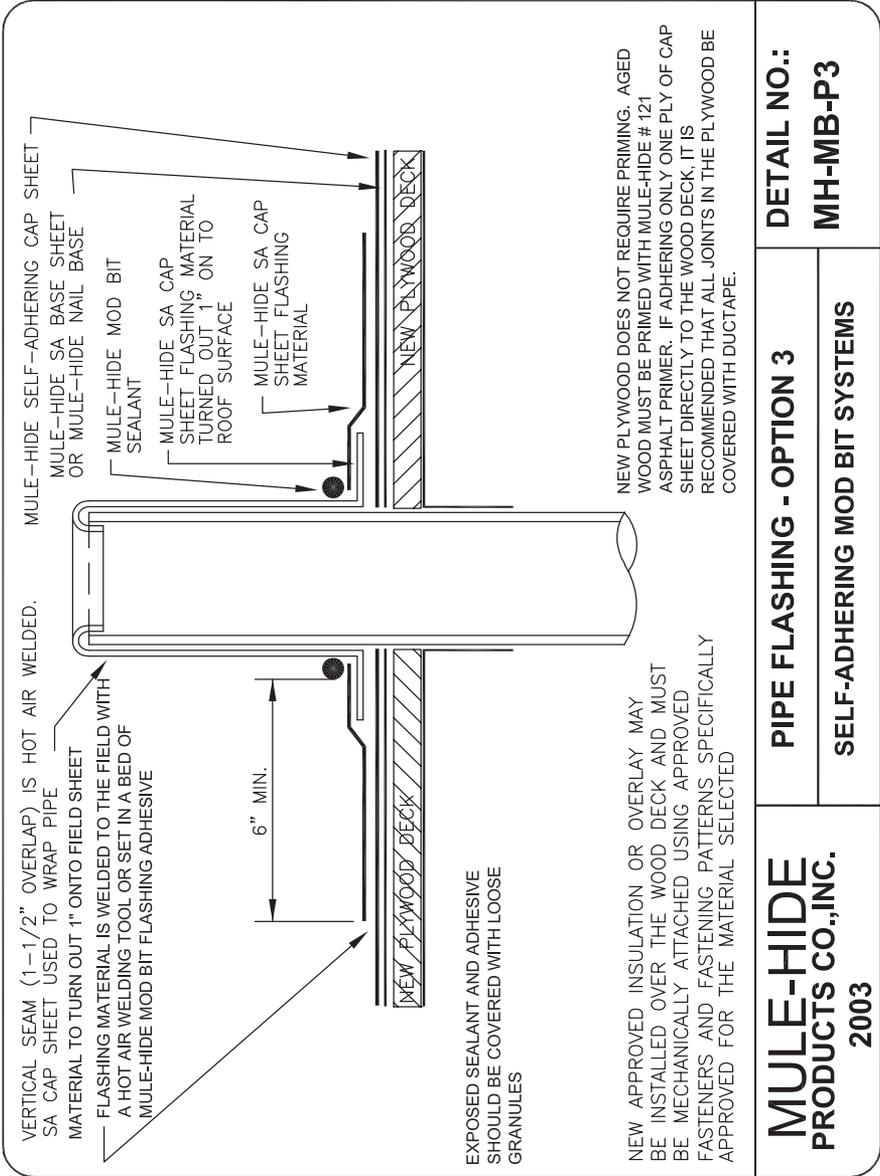
DETAIL NO.:
MH-MB-P2

PIPE FLASHING - OPTION 2

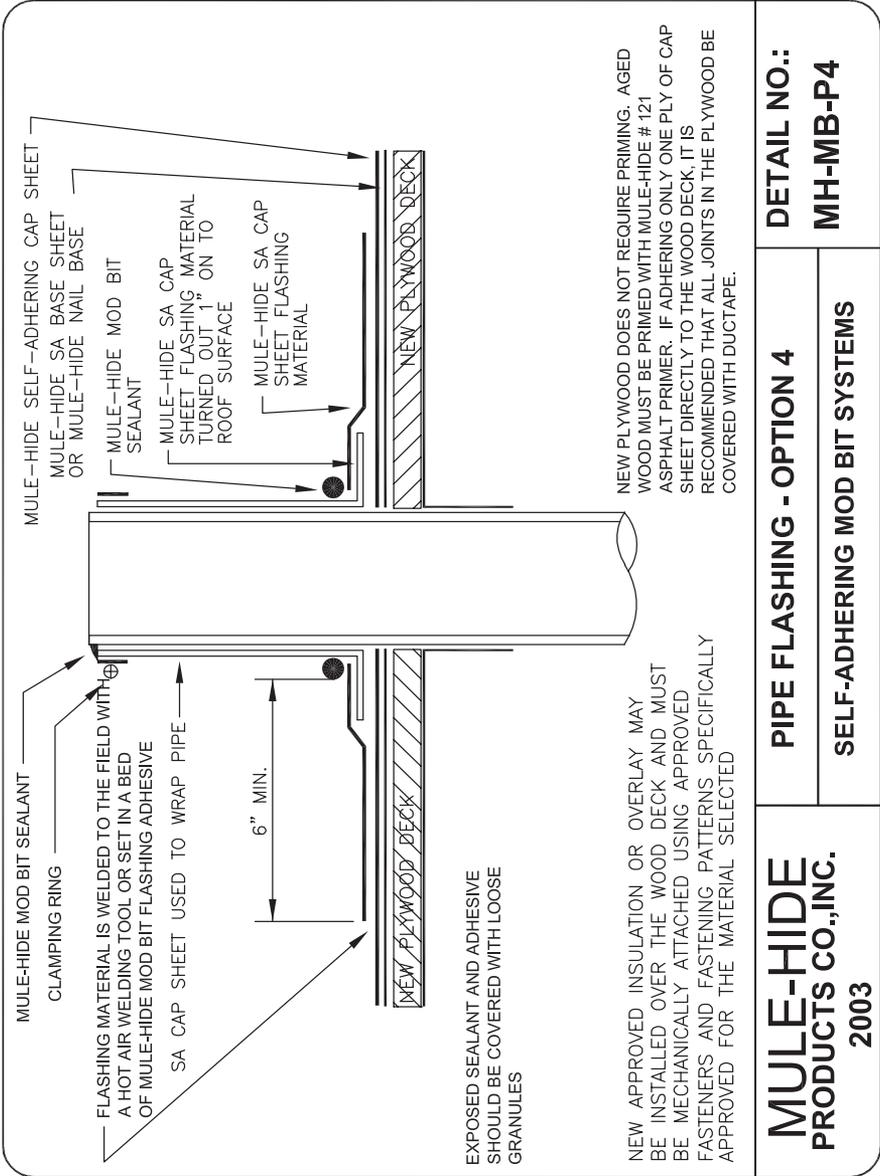
SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO., INC.
2003

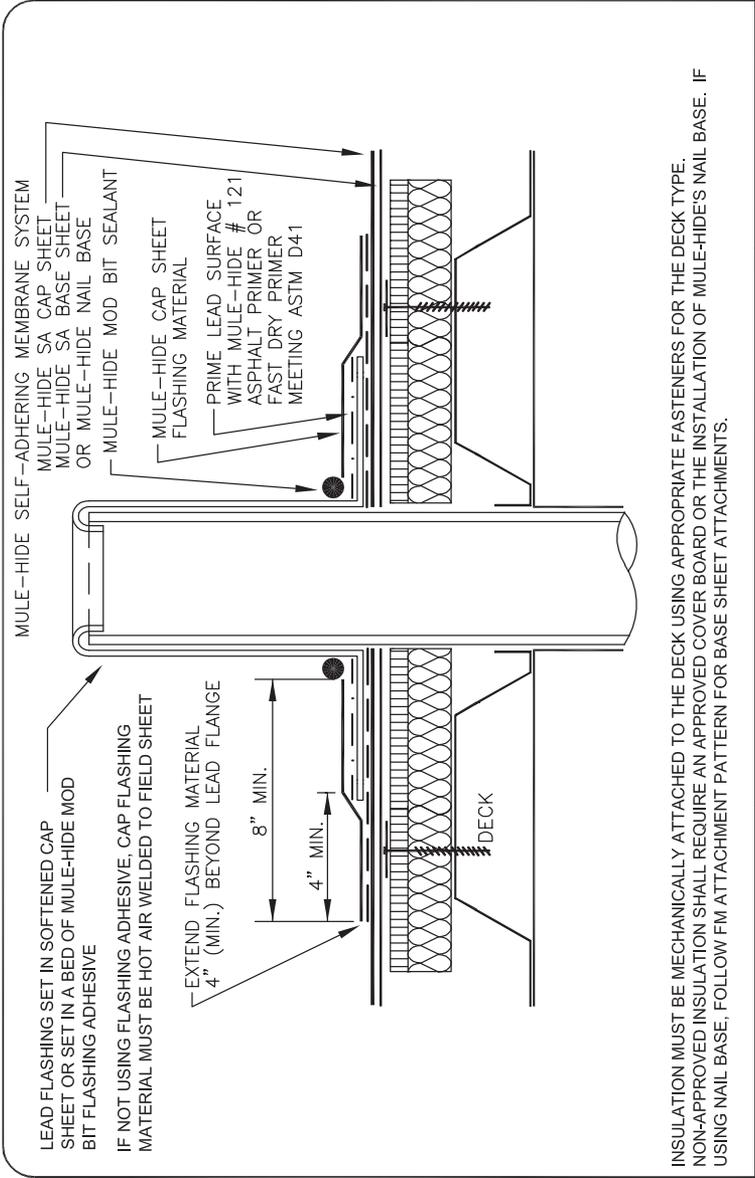
MH-MB-P3



MH-MB-P4



MH-MB-P5

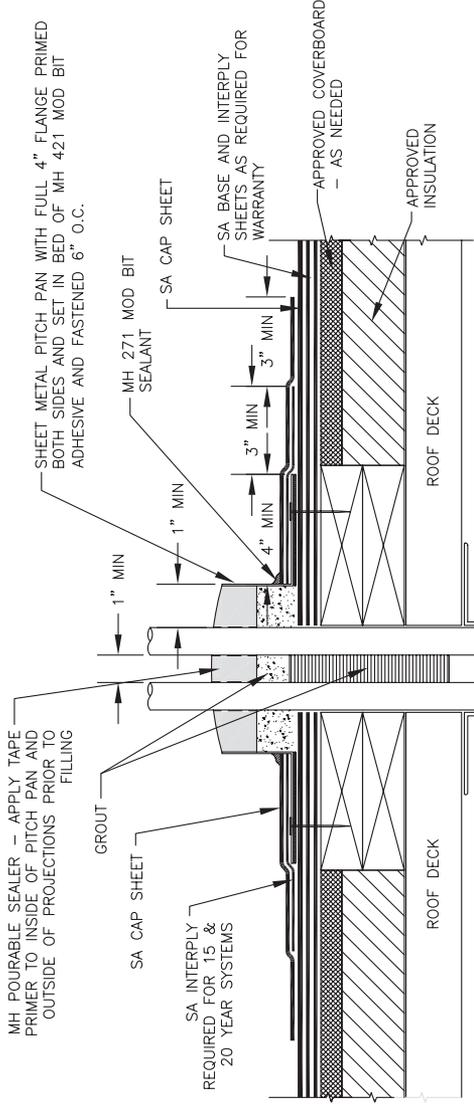


INSULATION MUST BE MECHANICALLY ATTACHED TO THE DECK USING APPROPRIATE FASTENERS FOR THE DECK TYPE. NON-APPROVED INSULATION SHALL REQUIRE AN APPROVED COVER BOARD OR THE INSTALLATION OF MULE-HIDE'S NAIL BASE. IF USING NAIL BASE, FOLLOW FM ATTACHMENT PATTERN FOR BASE SHEET ATTACHMENTS.

MULE-HIDE PRODUCTS CO.,INC. 2003	PIPE FLASHING - OPTION 5	DETAIL NO.: MH-MB-P5
	SELF-ADHERING MOD BIT SYSTEMS	

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MATCHING THE INSULATION THICKNESS AND EXTENDING BEYOND THE FLANGE ARE REQUIRED.
3. ALL SEAMS OVER GRANULATED SURFACES MUST BE COMPLETED WITH EITHER HOT AIR WELDING OR MH 421 MOD BIT ADHESIVE.

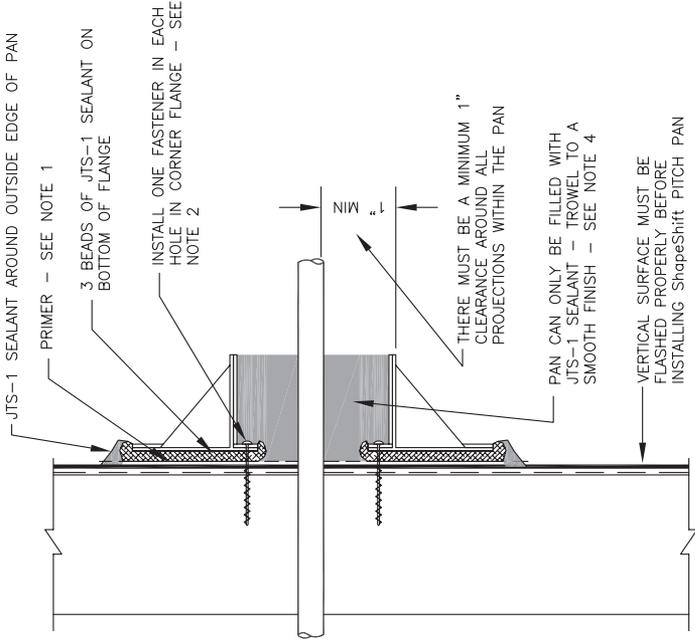
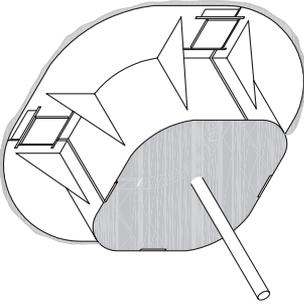


PENETRATION POCKET
SYSTEMS:
SELF-ADHERING
MODIFIED BITUMEN

MULE-HIDE
PRODUCTS CO., INC.

DETAIL NO.:
MHMB-141
 REVISION DATE: MARCH 2017

MH-MB-142



NOTES:

1. MOD BIT MEMBRANE MUST BE PRIMED WITH 2-PART EPOXY PRIMER BEFORE SETTING FLANGE ON WALL.
2. PITCH PAN MUST BE FASTENED TO SUBSTRATE WITH 1 FASTENER IN EACH CORNER PIECE. PLACE FASTENER IN HOLE FOUND ON INSIDE FLANGE.
3. ShapeShift PITCH PANS CAN BE CONFIGURED INTO THE SHAPE NEEDED BY USING ANY COMBINATION OF CORNER AND STRAIGHT PIECES.
4. VERTICAL PITCH PANS CAN ONLY BE FILLED WITH JTS-1 SEALANT BECAUSE IT DOES NOT SHRINK OR SAG. NO OTHER SEALANTS ARE APPROVED.

ShapeShift
VERTICAL SEALANT POCKET
SYSTEMS:

ALL MOD BIT SYSTEMS

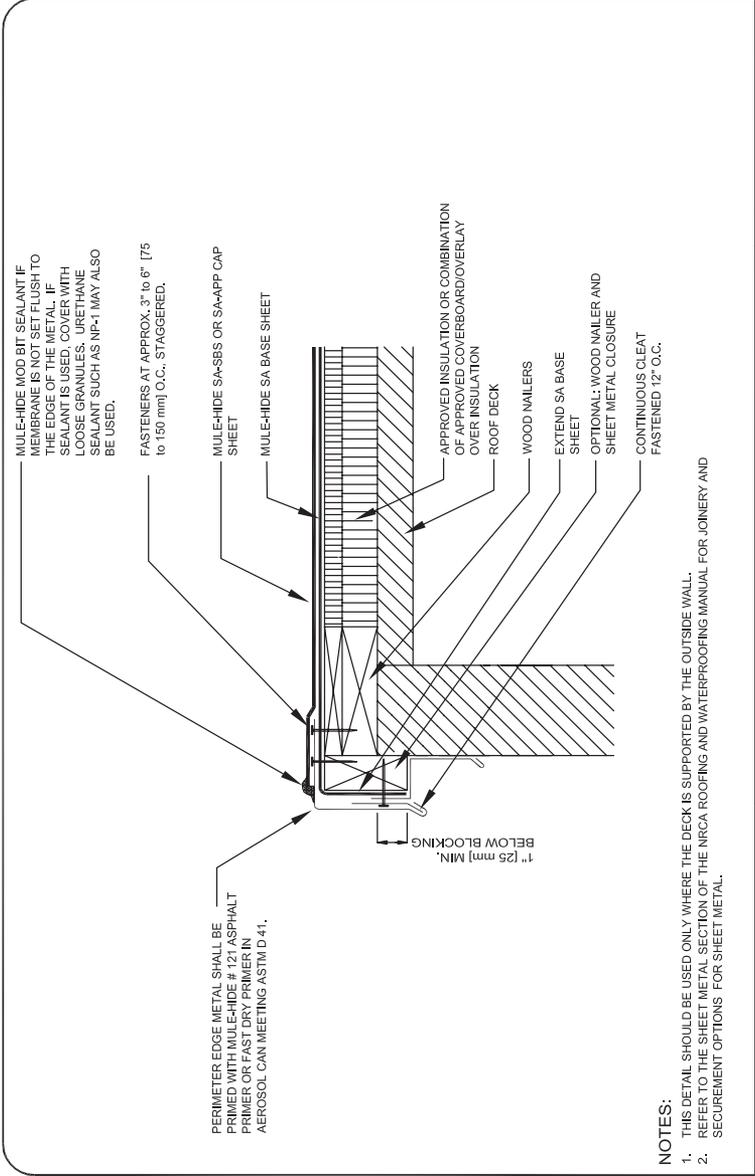
DETAIL NO.:

MHMB-142

REVISION DATE: 05/2018

**MULE-HIDE
PRODUCTS CO., INC.**

MH-MB-EM1



NOTES:

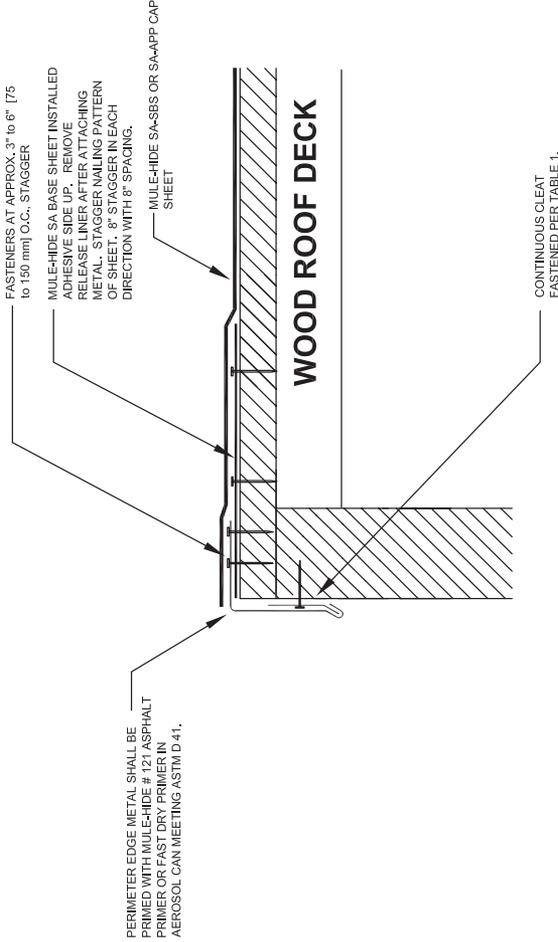
1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL. REFER TO THE SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.

DETAIL NO.:
MH-MB-EM1

EDGE METAL FLASHING - OPTION 1
SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO., INC.
2003

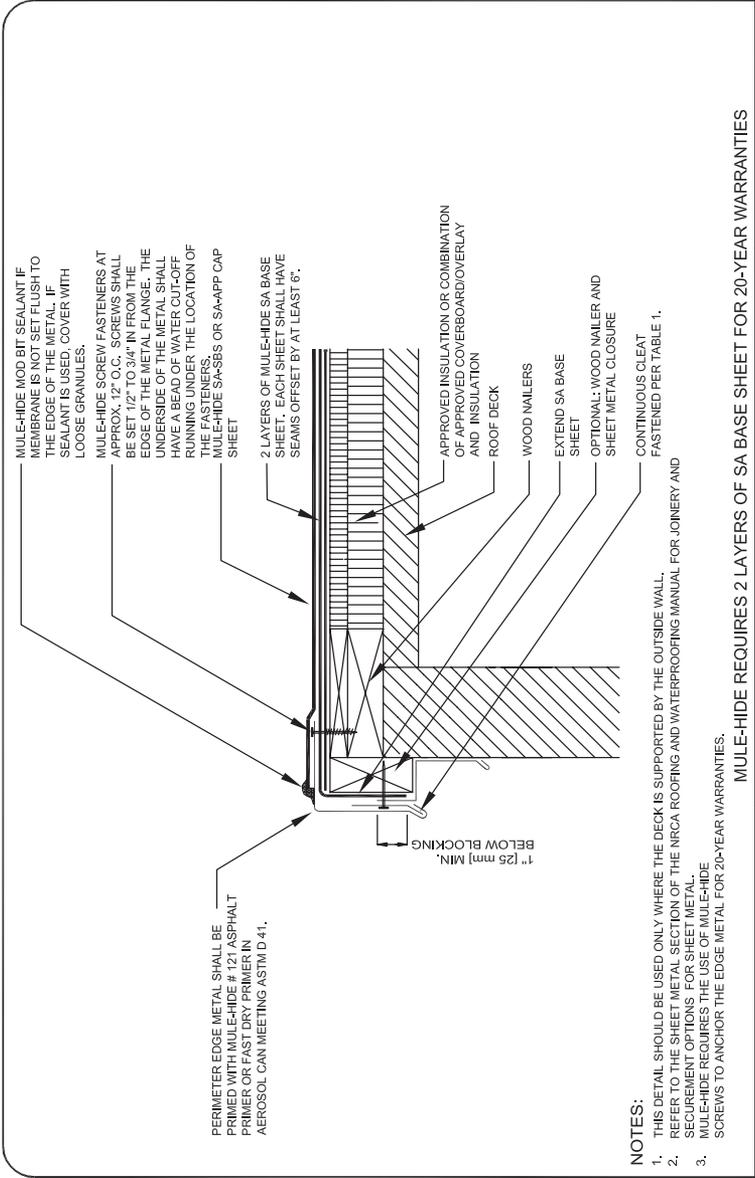
MH-MB-EM2



- NOTES:**
1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL. REFER TO THE SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND REQUIREMENT OPTIONS FOR SHEET METAL.
 2. REFER TO THE SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND REQUIREMENT OPTIONS FOR SHEET METAL.
 3. THIS DETAIL IS ONLY AVAILABLE FOR PROJECTS REQUESTING TEN-YEAR MATERIAL OR SYSTEM WARRANTIES.
 4. DECK MUST HAVE A MINIMUM SLOPE OF 1/4" PER FOOT.

MULE-HIDE PRODUCTS CO.,INC. 2003	EDGE METAL FLASHING - OPTION 2	DETAIL NO.: MH-MB-EM2
	SELF-ADHERING MOD BIT SYSTEMS	

MH-MB-EM3

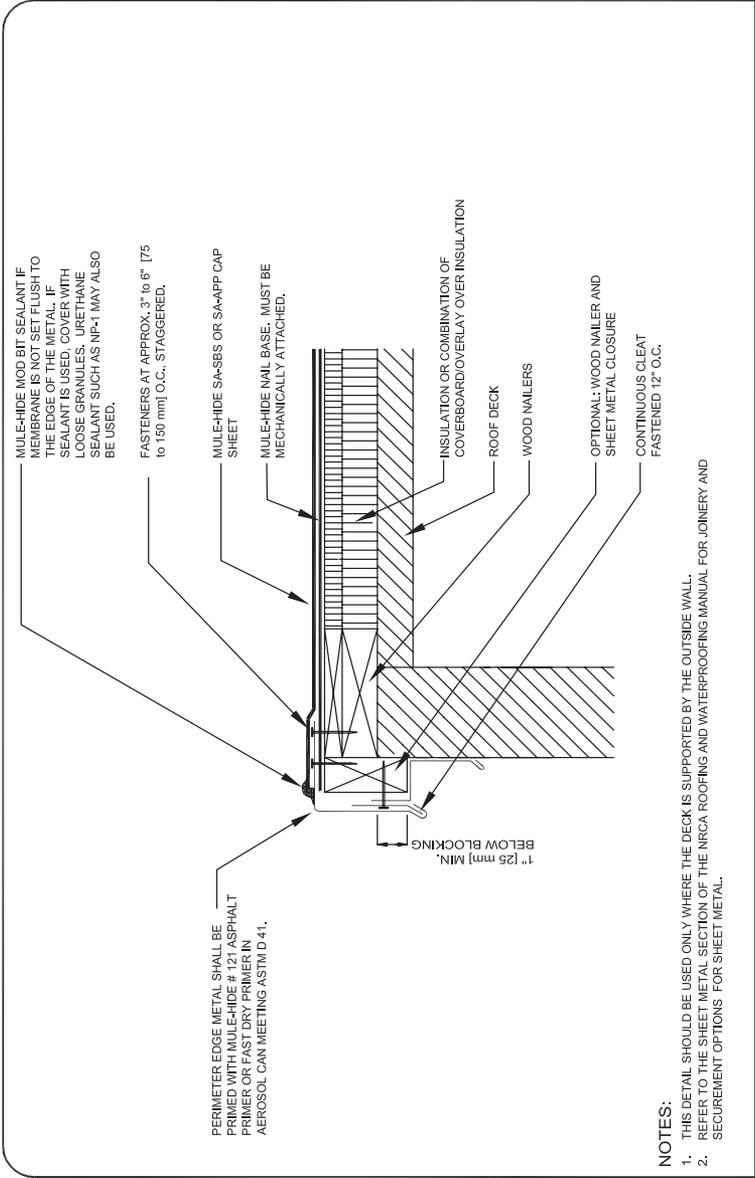


NOTES:

1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL. REFER TO THE SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.
2. MULE-HIDE REQUIRES THE USE OF MULE-HIDE SCREWS TO ANCHOR THE EDGE METAL FOR 20-YEAR WARRANTIES.
3. MULE-HIDE REQUIRES 2 LAYERS OF SA BASE SHEET FOR 20-YEAR WARRANTIES.

MULE-HIDE PRODUCTS CO.,INC. 2003	EDGE METAL FLASHING - OPTION 3	DETAIL NO.: MH-MB-EM3
	SELF-ADHERING MOD BIT SYSTEMS	

MH-MB-EM4



MULE-HIDE PRODUCTS CO.,INC. 2003	EDGE METAL FLASHING - OPTION 4	DETAIL NO.: MH-MB-EM4
	SELF-ADHERING MOD BIT SYSTEMS	

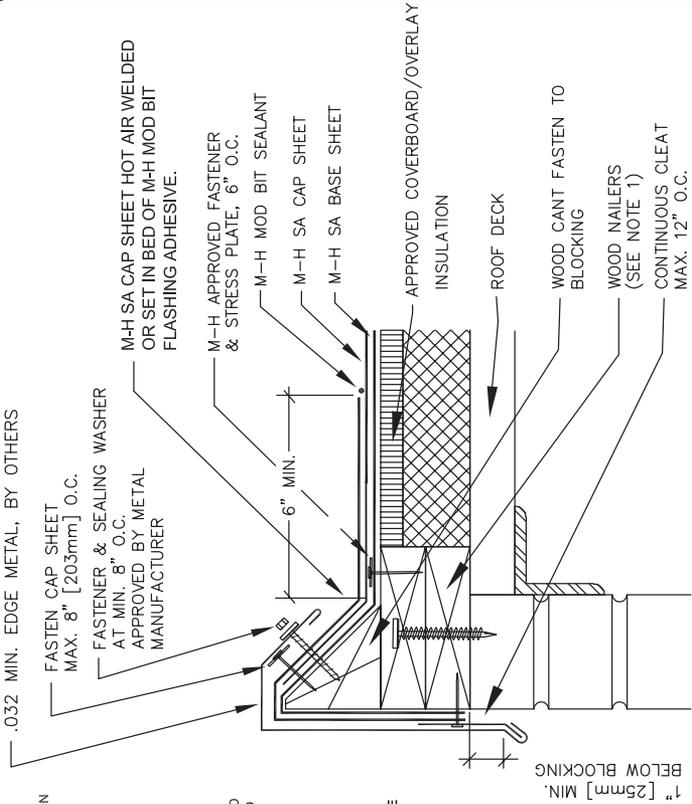
NOTES:

1. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL. REFER TO THE SHEET METAL SECTION OF THE NRCA ROOFING AND WATERPROOFING MANUAL FOR JOINERY AND SECUREMENT OPTIONS FOR SHEET METAL.

MH-MB-GS1

NOTES:

1. ATTACH WOOD NAILER TO WALL/DECK IN ACCORDANCE WITH FMRC GUIDELINES AS PER SECTION 1-28, REGARDING WINDLOADS TO ROOF SYSTEMS & DECK SECUREMENT.
2. REFER TO SMACNA RECOMMENDATIONS & DETAILS REGARDING METAL THICKNESS & CLEAT REQUIREMENTS.
3. MEMBRANE ENDLAPS MUST BE 6" MINIMUM & FULLY ADHERED TO MEMBRANE IN ALL LOCATIONS WHERE "FASTLAP" IS NOT PRESENT.
4. ALL ACCEPTABLE MASONRY, CONCRETE, METAL & AGED WOOD SUBSTRATES MUST BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER (ASTM D 41).
5. REFER TO MULE-HIDE APPLICATION GUIDELINES AND PRODUCT DATA SHEETS FOR SUITABLE INSULATION TO ACCEPT MULE-HIDE SELF-ADHERING MEMBRANES.
6. INSULATION MUST BE ATTACHED IN ACCORDANCE WITH MULE-HIDE MINIMUM REQUIREMENTS.
7. NON-COMPATIBLE INSULATION SHALL REQUIRE AN APPROVED COVERBOARD TO WHICH THE SA BASE SHEET MAY BE ADHERED. CERTAIN APPROVED COVERBOARDS (UNDERLAYMENTS) MAY REQUIRE PRIMING WITH MULE-HIDE # 121 ASPHALT PRIMER.
8. IF INSTALLING A 20-YR SYSTEM, 2 PILES OF SA BASE SHEET ARE REQUIRED.

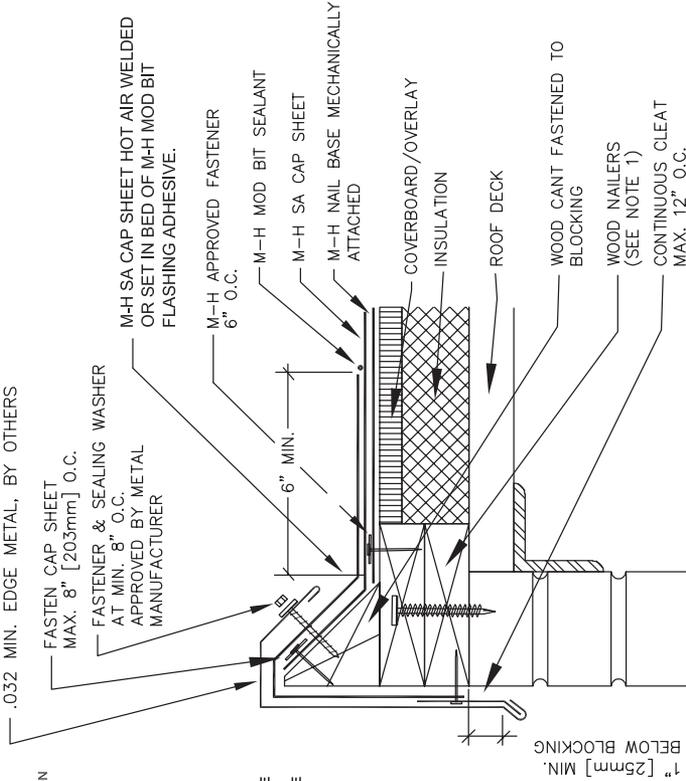


MULE-HIDE
PRODUCTS CO.,INC.
2003

GRAVEL STOP - OPTION # 1
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-GS1

MH-MB-GS2



- NOTES:
1. ATTACH WOOD NAILER TO WALL/DECK IN ACCORDANCE WITH FMRC GUIDELINES AS PER SECTION 1-28, REGARDING WINDLOADS TO ROOF SYSTEMS & DECK SECUREMENT.
 2. REFER TO SMACNA RECOMMENDATIONS & DETAILS REGARDING METAL THICKNESS & CLEAT REQUIREMENTS.
 3. MEMBRANE ENDLAPS MUST BE 6" MINIMUM & FULLY ADHERED TO MEMBRANE IN ALL LOCATIONS WHERE "FASTLAP" IS NOT PRESENT.
 4. ALL ACCEPTABLE MASONRY, CONCRETE, METAL & AGED WOOD SUBSTRATES MUST BE PRIMED WITH MULE-HIDE # 121 ASPHALT PRIMER (ASTM D 41).
 5. INSULATION MUST BE ATTACHED IN ACCORDANCE WITH MULE-HIDE MINIMUM REQUIREMENTS.
 6. IF INSTALLING A 15-YR SYSTEM, 1 PILES OF SA BASE SHEET IS REQUIRED OVER THE NAIL BASE.
 7. IF INSTALLING A 20-YR SYSTEM, 2 PILES OF SA BASE SHEET ARE REQUIRED OVER THE NAIL BASE.

DETAIL NO.:
MH-MB-GS2

GRAVEL STOP - OPTION 2

SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO.,INC.
2003

SHEET METAL "GRAVEL-STOP" (BY OTHERS)
 PRIMER AND MULE-HIDE W/FASTENERS
 OR FAST DRY PRIMER IN AEROSOL CAN MEETING ASTM D 41

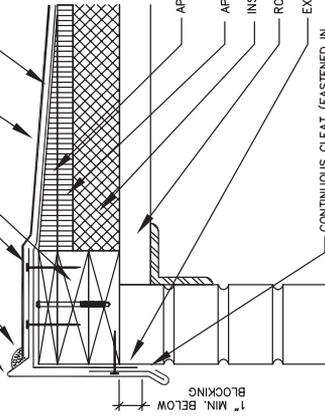
MULE-HIDE MOD BIT SEALANT

FASTENERS 4" STAGGERED

WOOD BLOCKING FASTENED
 PER FMRC RECOMMENDATIONS

MULE-HIDE SA-SBS OR SA-APP CAP SHEET

MULE-HIDE SA BASE SHEET



CONTINUOUS CLEAT (FASTENED IN
 ACCORDANCE WITH SMACNA RECOMMENDATIONS)

APPROVED TAPERED EDGE STRIP

APPROVED COVERBOARD/OVERLAY

INSULATION, WHERE REQUIRED

ROOF DECK

EXTEND BASE SHEET DOWN FACE BELOW BLOCKING

NOTES:

1. ATTACH WOOD NAILER TO WALL/DECK IN ACCORDANCE WITH FMRC GUIDELINES, AS PER SECTION 1-28, REGARDING WINDLOADS TO ROOF SYSTEMS & DECK SECUREMENT.
2. WOOD BLOCKING MAY BE SLOTTED FOR VENTING OF WET-FILL DECKS OR OTHER APPLICABLE CONSTRUCTIONS
3. THIS DETAIL SHOULD BE USED ONLY WHERE THE DECK IS SUPPORTED BY THE OUTSIDE WALL
4. REFER TO SMACNA RECOMMENDATIONS & DETAILS REGARDING METAL THICKNESS & CLEAT REQUIREMENTS
5. MEMBRANE ENDLAPS MUST BE 6" MINIMUM & FULLY ADHERED AT ALL MEMBRANE IN LOCATIONS WHERE "FAST LAP" IS NOT PRESENT
6. IF INSTALLING A 20-YR SYSTEM, 2 PLYS OF SA BASE SHEET MUST BE INSTALLED.

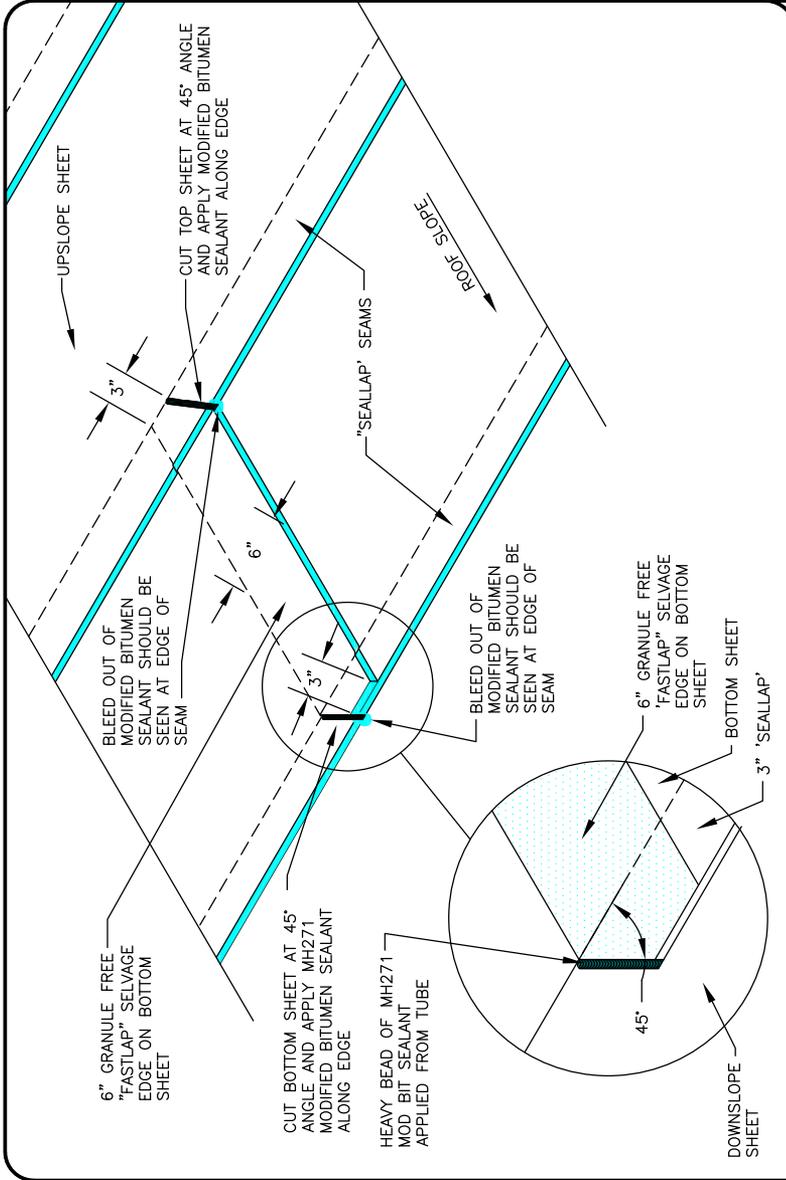
MULE-HIDE
PRODUCTS CO.,INC.
2003

GRAVEL STOP - OPTION 3

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-GS3

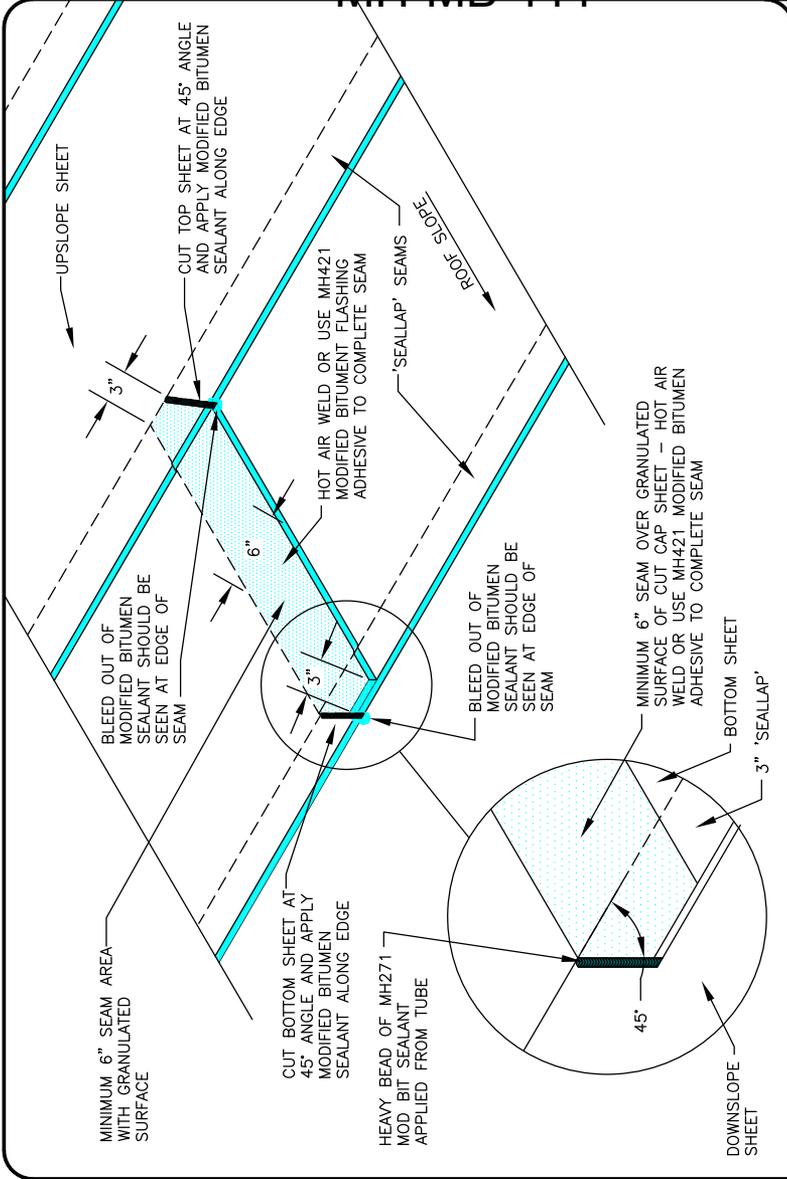
MH-MB-110



MULE-HIDE PRODUCTS CO., INC. 2010	'FASTLAP' END LAPS - 45 DEGREE CUT SYSTEMS:	DETAIL NO.: MHMB-110
	SELF-ADHERING MODIFIED BITUMEN	

MH-MB-111

MH-MB-111



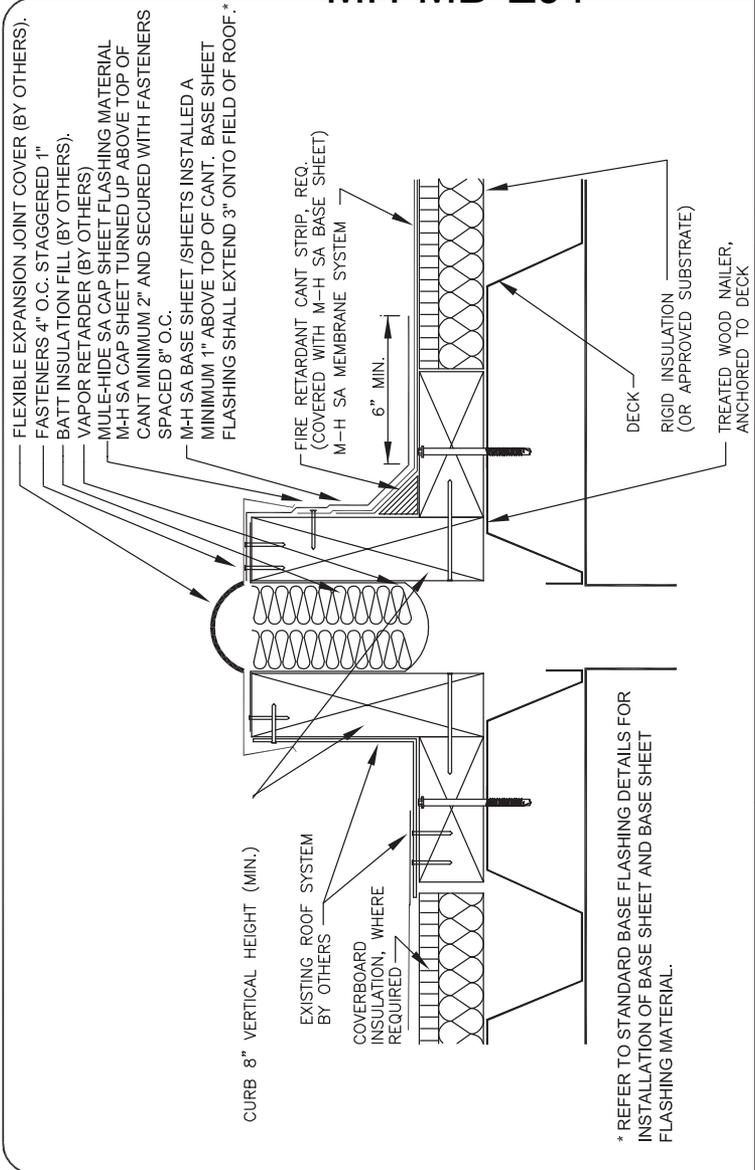
DETAIL NO.:
MHMB-111

CUT CAP SHEET END LAPS - 45 DEGREE CUT SYSTEMS:
SELF-ADHERING MODIFIED BITUMEN

MULE-HIDE PRODUCTS CO., INC.
2010

MH-MB-EJ1

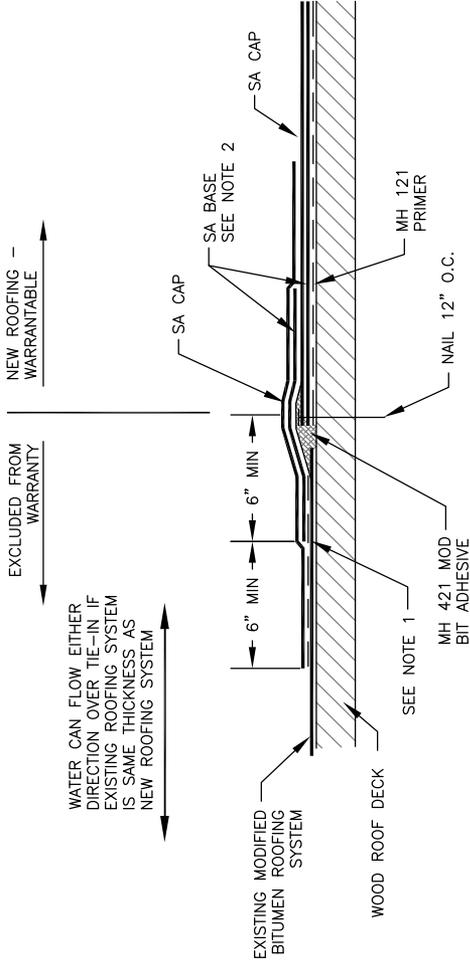
MH-MB-EJ1



* REFER TO STANDARD BASE FLASHING DETAILS FOR INSTALLATION OF BASE SHEET AND BASE SHEET FLASHING MATERIAL.

<p>MULE-HIDE PRODUCTS CO.,INC. 2003</p>	<p>EXPANSION JOINT - OPTION 1</p>	<p>DETAIL NO.: MH-MB-EJ1</p>
	<p>SELF-ADHERING MOD BIT SYSTEMS</p>	

MH-MB-162

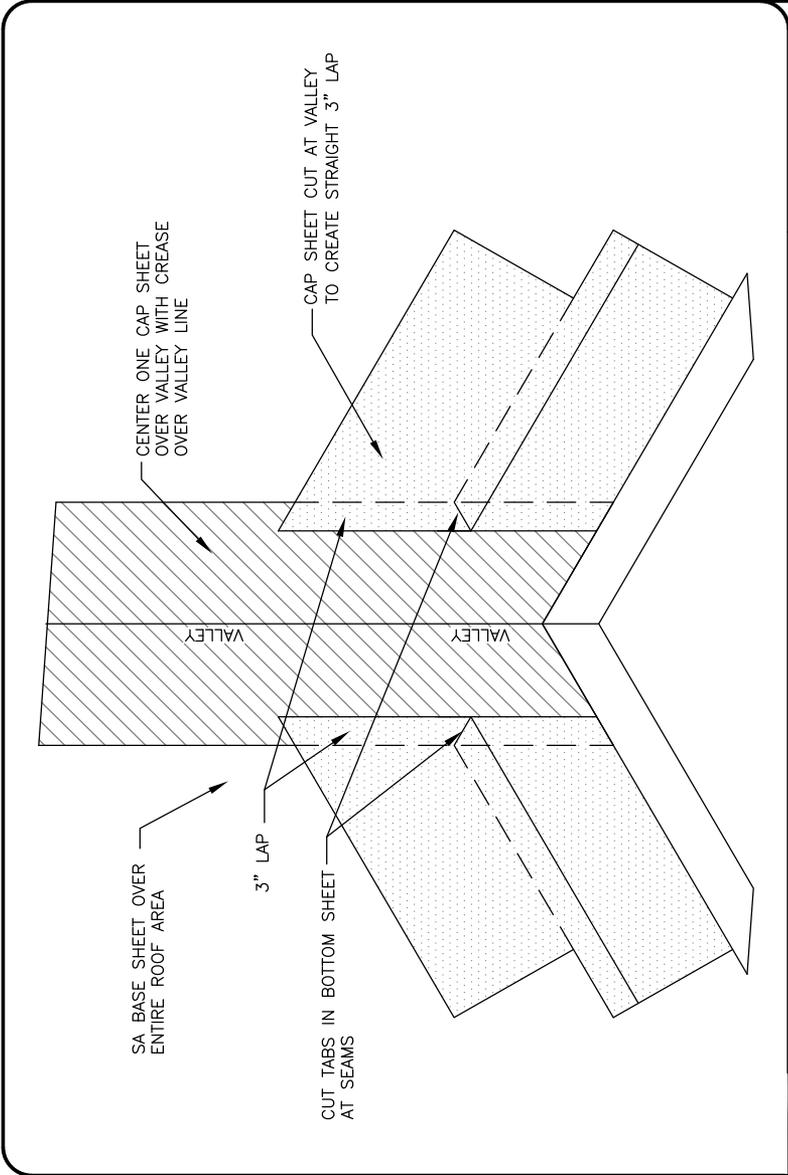


NOTES:

1. EXISTING MEMBRANE MUST BE PRIMED WITH MH 121 PRIMER. IF EXISTING MOD. BIT. IS GRANULAR SURFACED, MH 421 MOD BIT ADHESIVE MUST BE USED TO COMPLETE SEAM. IF EXISTING MOD BIT IS SMOOTH SURFACED, ADHERING DIRECTLY TO THE PRIMED SURFACE IS ACCEPTABLE.
2. 20-YR WARRANTIES REQUIRE 2 PLYS OF SA BASE SHEET ON THE FIELD OF THE ROOF PRIOR TO INSTALLING CAP SHEETS.

MULE-HIDE PRODUCTS CO., INC.	TIE-IN TO EXISTING SMOOTH MOD. BIT. WITH TEAR-OFF SYSTEMS:	DETAIL NO.: MHMB-162 REVISION DATE: 03/2017
	SELF-ADHERING MODIFIED BITUMEN	

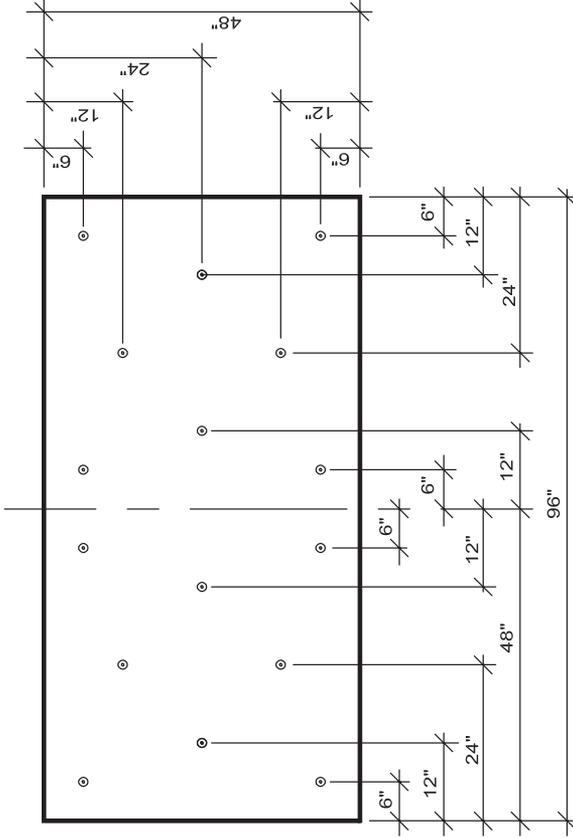
MH-MB-180



MULE-HIDE PRODUCTS CO., INC. 2010	OPEN VALLEY SYSTEMS:	DETAIL NO.:
	SELF-ADHERING MODIFIED BITUMEN	MHMB-180

MH-MB-INS1

THE ATTACHMENT PATTERN SHOWN IS THE STANDARD PATTERN FOR FIELD ATTACHMENT REQUIRED BY MULE-HIDE. THE ATTACHMENT IN THE PERIMETER AREA IS INCREASED 50% AND 75% IN THE CORNERS.



4' X 8' INSULATION ATTACHMENT (1 PER 2 SF.)
STANDARD ATTACHMENT

MULE-HIDE
PRODUCTS CO.,INC.
2003

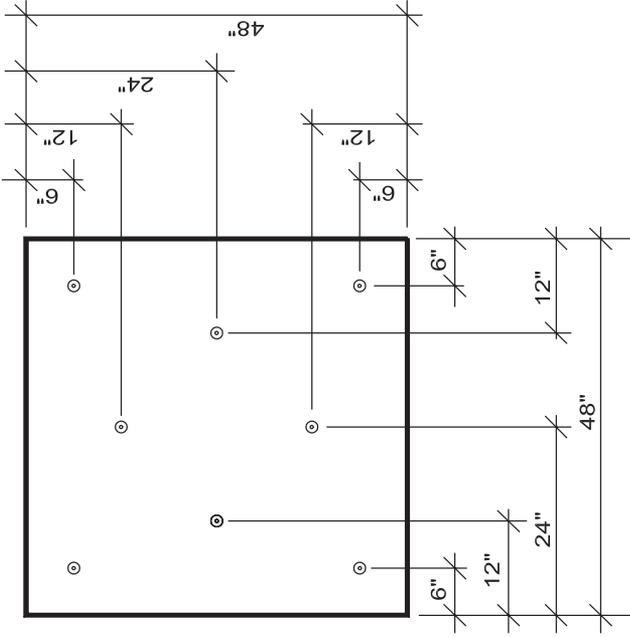
INSULATION ATTACHMENT - OPTION 1

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-INS-1

THE ATTACHMENT PATTERN SHOWN IS THE STANDARD PATTERN FOR FIELD ATTACHMENT REQUIRED BY MULE-HIDE. THE ATTACHMENT IN THE PERIMETER AREA IS INCREASED 50% AND 75% IN THE CORNERS.

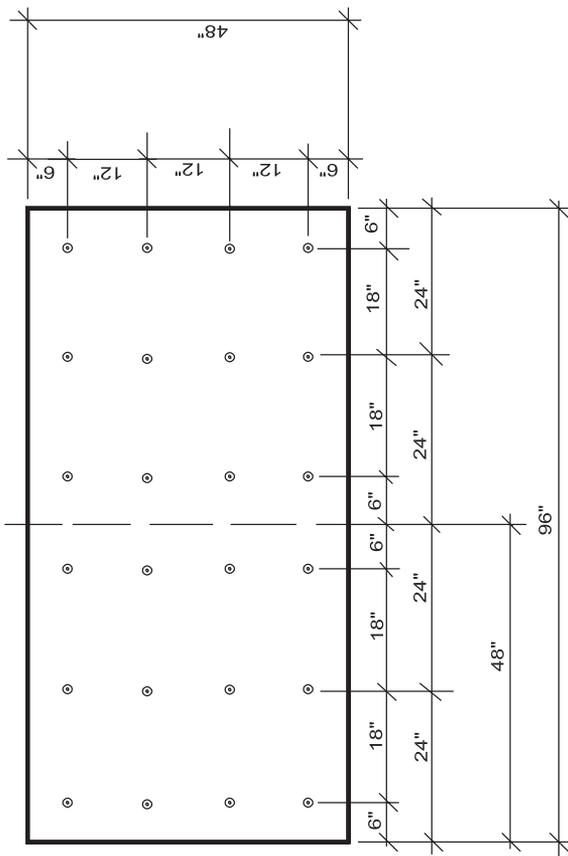


4' X 4' INSULATION ATTACHMENT (1 PER 2 SF.)
STANDARD ATTACHMENT

MULE-HIDE
PRODUCTS CO.,INC.
2003

INSULATION ATTACHMENT - OPTION 2
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-INS-2



4' X 8' INSULATION ATTACHMENT (1 PER 1.33 SF)
 STANDARD ATTACHMENT (24 PER BOARD)

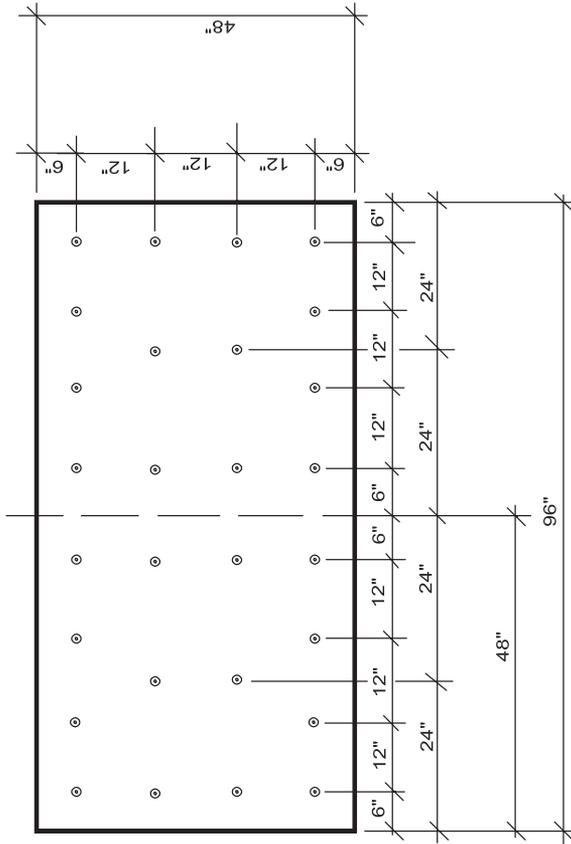
MULE-HIDE
PRODUCTS CO.,INC.
 2003

INSULATION ATTACHMENT - OPTION 3

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-INS-3



4' X 8' INSULATION ATTACHMENT (1 PER 1,14 SF)
 STANDARD ATTACHMENT (28 PER BOARD)

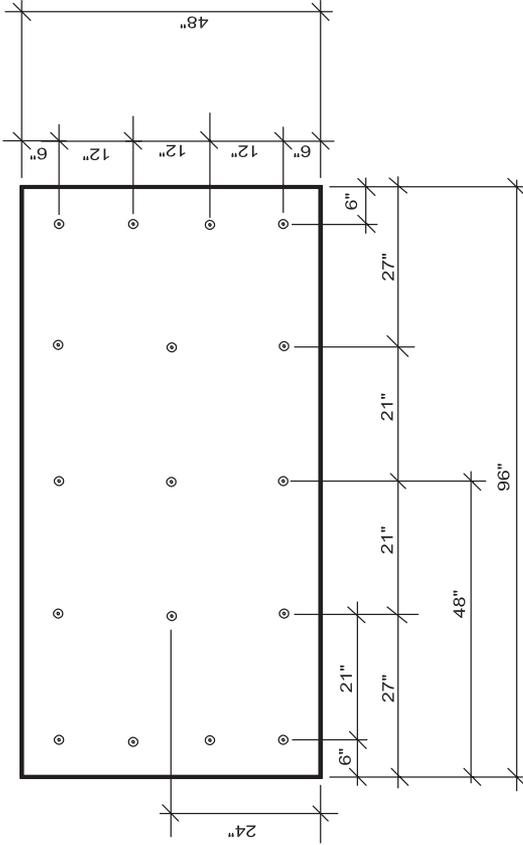
MULE-HIDE
PRODUCTS CO.,INC.
 2003

INSULATION ATTACHMENT - OPTION 4

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-INS-4



4' X 8' ORIENTED STRAND BOARD ATTACHMENT (1 PER 1.88 SF)
STANDARD ATTACHMENT (MINIMUM 7/16" THICK)

MULE-HIDE
PRODUCTS CO.,INC.
2003

INSULATION ATTACHMENT - OPTION 5

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-INS-5

MH-NB-FM1-60

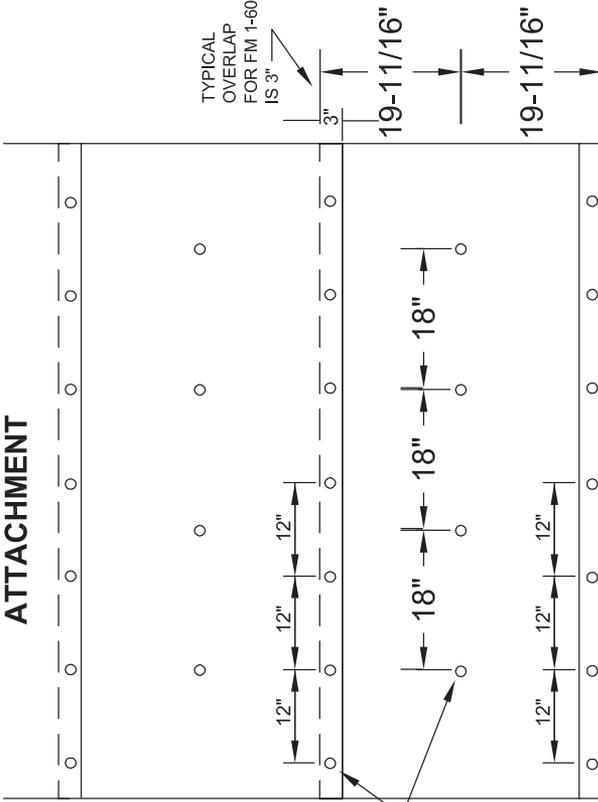
TYPICAL FM 1-60 ATTACHMENT

FIELD FASTENING PATTERN FOR NAIL BASE

NOTE: TYPICALLY, CORNERS REQUIRE 100% INCREASE OF FASTENERS AND PERIMETERS REQUIRE 50% INCREASE.

FASTENER PLACEMENT:
12" O.C. @ SEAMS
18" O.C. @ CENTER OF ROLLS

FACTORY MUTUAL APPROVED FASTENERS AND PLATES



39-3/8" WIDE NAIL BASE ROLLS

DETAIL NO.:
MH-MB-NB
FM 1-60

NAIL BASE FASTENING PATTERN

SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO., INC.
2003

MH-NB-FM1-90

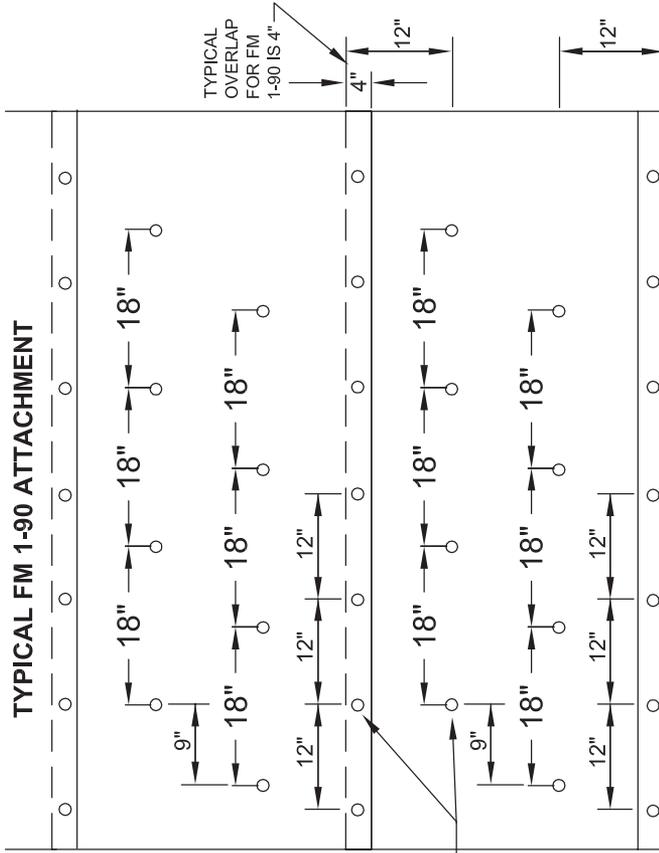
FIELD FASTENING PATTERN FOR NAIL BASE SHEET

NOTE: TYPICALLY, CORNERS REQUIRE 100% INCREASE OF FASTENERS AND PERIMETERS REQUIRE 50% INCREASE.

FASTENER PLACEMENT:
12" O.C. @ SEAMS
18" O.C. @ FIELD, 2 ROWS SPACED 12" APART AND FROM SHEET EDGE AND STAGGERED 9"

**FACTORY MUTUAL APPROVED
FASTENERS AND PLATES**

TYPICAL FM 1-90 ATTACHMENT



39-3/8" WIDE NAIL BASE ROLLS

**MULE-HIDE
PRODUCTS CO.,INC.
2003**

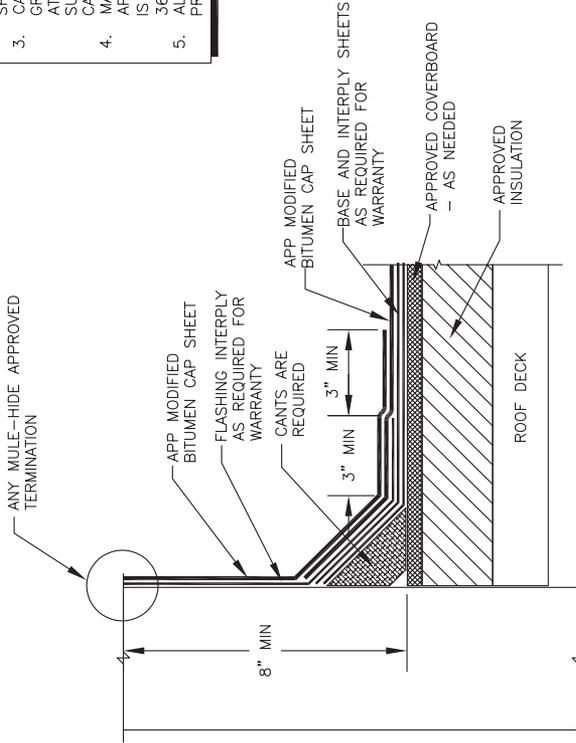
NAIL BASE FASTENING PATTERN

SELF-ADHERING MOD BIT SYSTEMS

**DETAIL NO.:
MH-MB-NB
FM 1-90**

NOTES:

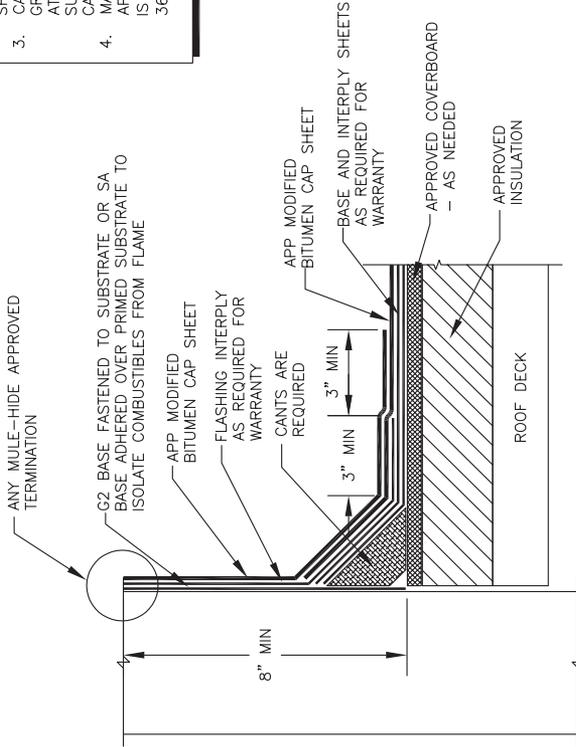
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW07T. ALL VERTICAL SURFACES MUST BE PRIMED.
- 5.



MULE-HIDE PRODUCTS CO., INC.	BASE FLASHING NONCOMBUSTIBLE SUBSTRATE SYSTEMS:	DETAIL NO.: MHMB-UN-CW01T
	APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTES:

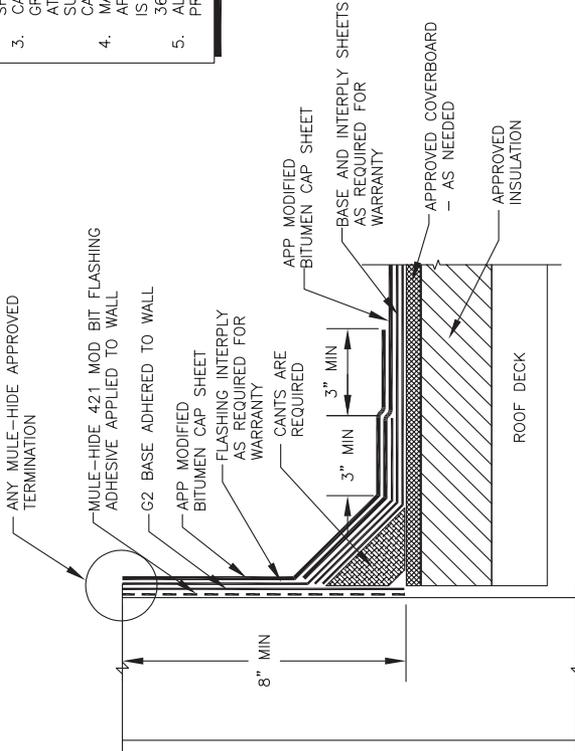
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW07T



MULE-HIDE PRODUCTS CO., INC.	BASE FLASHING COMBUSTIBLE SUBSTRATE SYSTEMS:	DETAIL NO.: MHMB-UN-CW11T
	APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

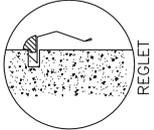
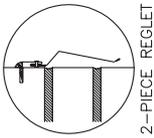
NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW07T.
5. ALL VERTICAL SURFACES MUST BE PRIMED.

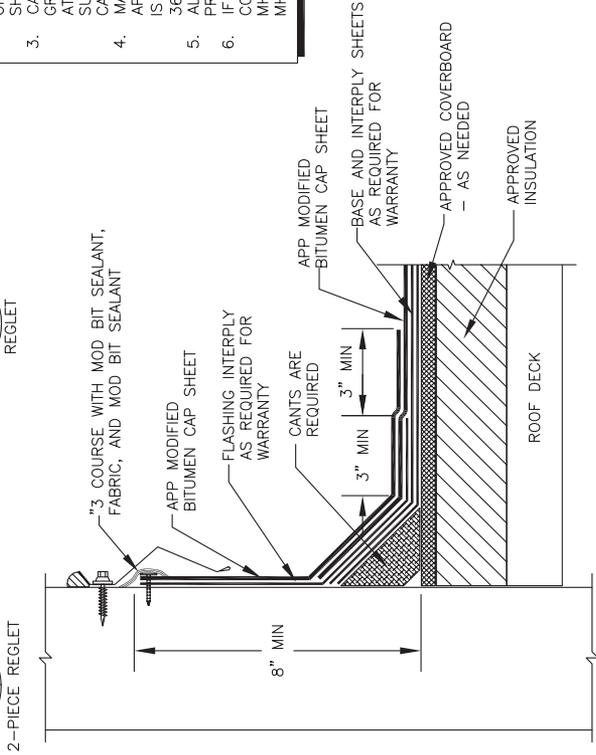


MULE-HIDE PRODUCTS CO., INC.	BASE FLASHING WITH MASTIC SYSTEMS:	DETAIL NO.: MHMB-UN-CW02T
	APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

MH-MB-UN-CW03T

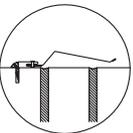


- NOTES:
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
 2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
 3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
 4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW06T.
 5. ALL VERTICAL SURFACES TO BE PRIMED.
 6. IF FLASHING SUBSTRATE IS COMBUSTIBLE, REFER TO DETAIL MHMB-UN-CW11T OR MHMB-UN-CW02T.

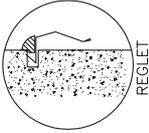


MULE-HIDE PRODUCTS CO., INC.	BASE FLASHING WITH METAL COUNTERFLASHING SYSTEMS:	DETAIL NO.: MHMB-UN-CW03T <small>REVISION DATE: MARCH 2015</small>
	APP MODIFIED BITUMEN	

MH-MB-UN-CW04T

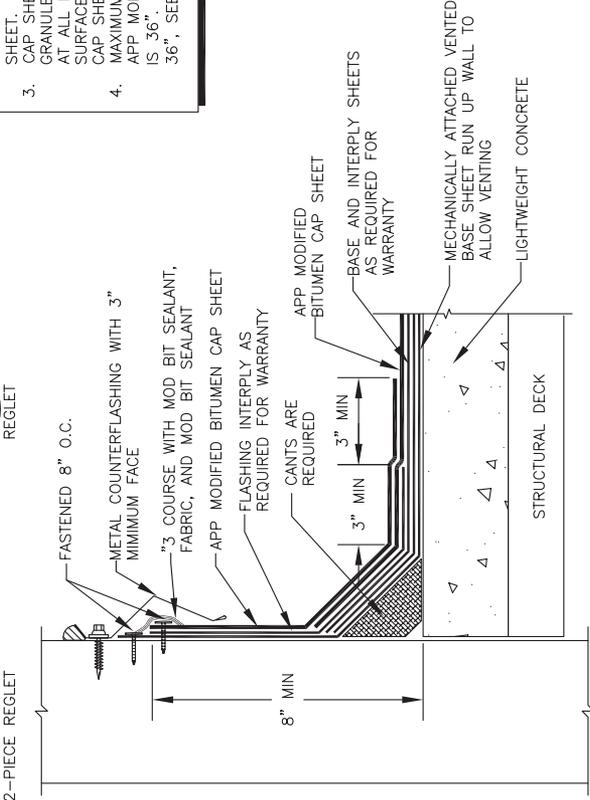


NOTE:
SCREWS THROUGH
COUNTERFLASHING TO
ACT AS TERMINATION
ARE NOT APPROVED



REGLET

2-PIECE REGLET



NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW06T

**BASE FLASHING
FOR VENTED PERIMETER
SYSTEMS:
APP MODIFIED BITUMEN**

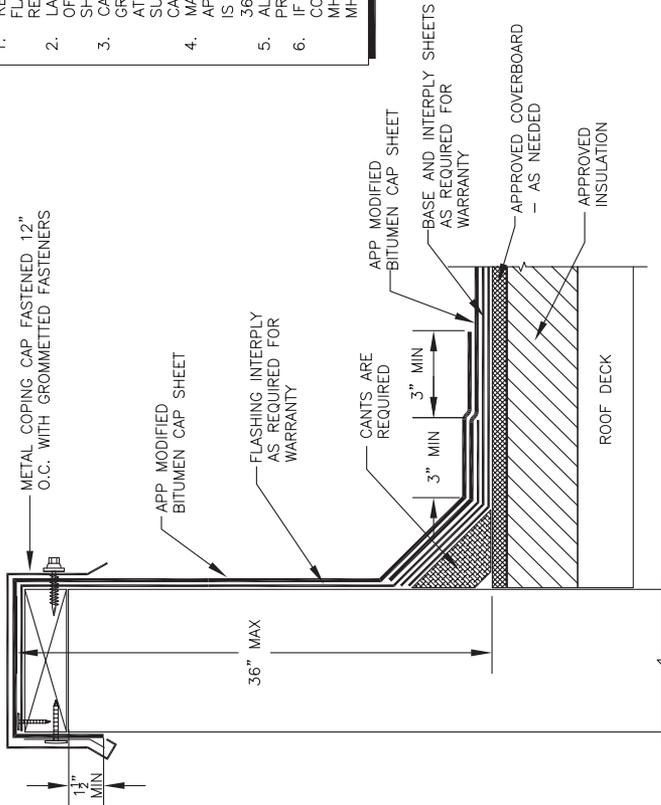
**MULE-HIDE
PRODUCTS CO., INC.**

DETAIL NO.:
MHMB-UN-CW04T

REVISION DATE: MARCH 2015

NOTES:

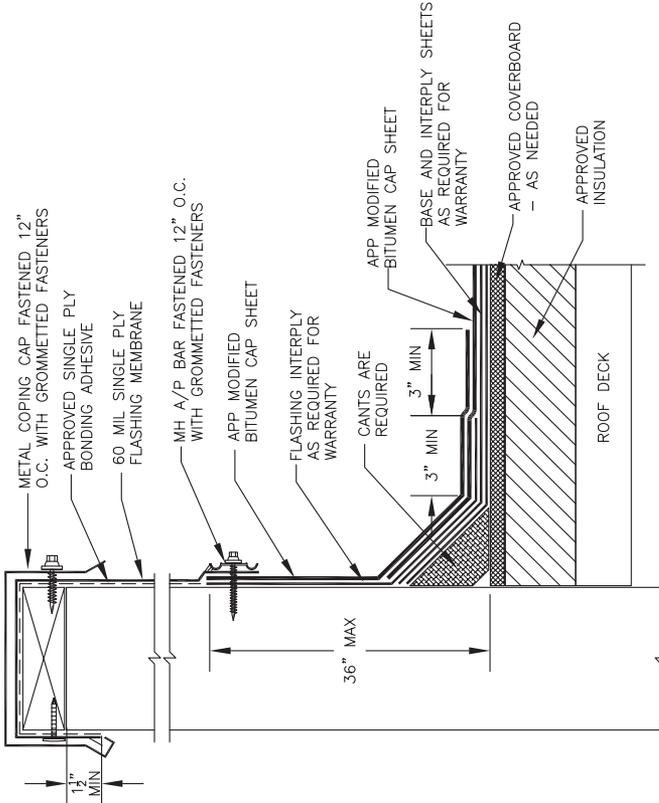
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW06T.
5. ALL VERTICAL SURFACES TO BE PRIMED.
6. IF FLASHING SUBSTRATE IS COMBUSTIBLE, REFER TO DETAIL MHMB-UN-CW11T OR MHMB-UN-CW02T.



MULE-HIDE PRODUCTS CO., INC.	PARAPET WALL WITH METAL COPING SYSTEMS: APP MODIFIED BITUMEN
DETAIL NO.: MHMB-UN-CW05T REVISION DATE: MARCH 2015	

NOTES:

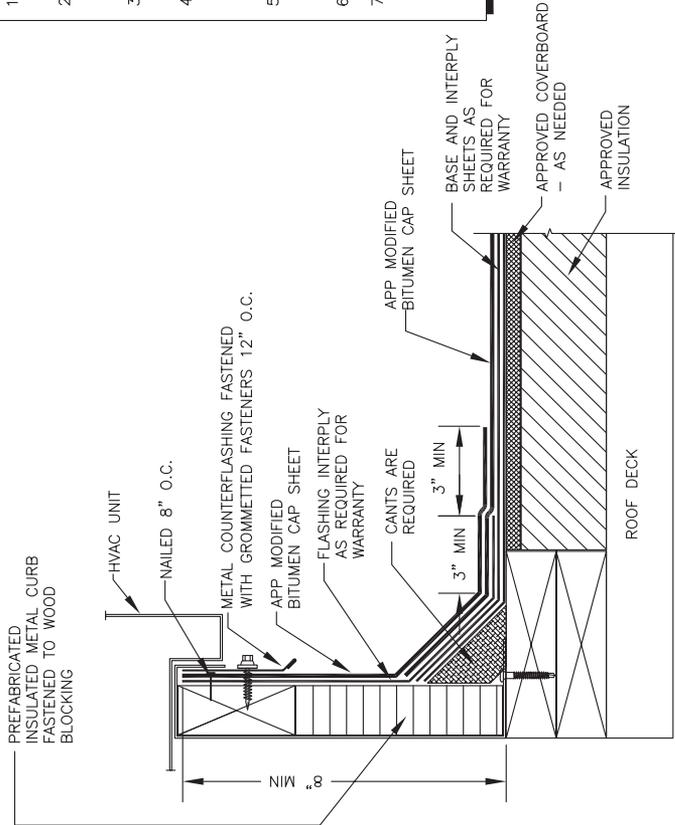
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS 36". IF WALL IS TALLER THAN 36" SEE DETAIL MHMB-UN-CW06T SINGLE PLY MEMBRANE MUST OVERLAP TOP OF MODIFIED BITUMEN FLASHING PRIOR TO INSTALLING A/P BAR.
5. ALL VERTICAL SURFACES AT APP FLASHINGS TO BE PRIMED.
6. IF FLASHING SUBSTRATE IS COMBUSTIBLE REFER TO DETAIL MHMB-UN-CW11T OR MHMB-UN-CW02T.



MULE-HIDE PRODUCTS CO., INC.	HIGH WALL PARAPET FLASHING SYSTEMS:	DETAIL NO.: MHMB-UN-CW06T
	APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES.
3. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
4. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
5. INSTALL HVAC UNITS AFTER THE ROOF MEMBRANE AND FLASHINGS HAVE BEEN INSTALLED, IF POSSIBLE.
6. VERTICAL SURFACES MUST BE PRIMED.
7. ANY COMBUSTIBLE MATERIALS ON PREFABRICATED CURB MUST BE PROTECTED WITH A G2 BASE NAILED IN PLACE OR A SA BASE ADHERED TO A PRIMED SURFACE.

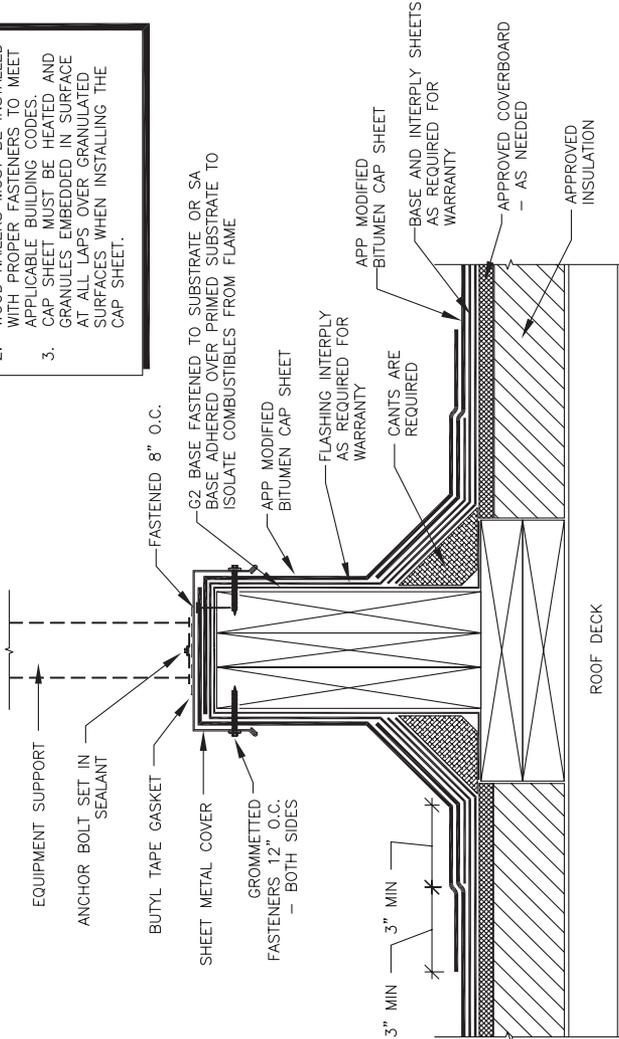


<p>MULE-HIDE PRODUCTS CO., INC.</p>	<p>PREFABRICATED METAL CURB</p>	<p>DETAIL NO.: MHMB-UN-CW08T</p>
	<p>SYSTEMS: APP MODIFIED BITUMEN</p>	<p>REVISION DATE: MARCH 2015</p>

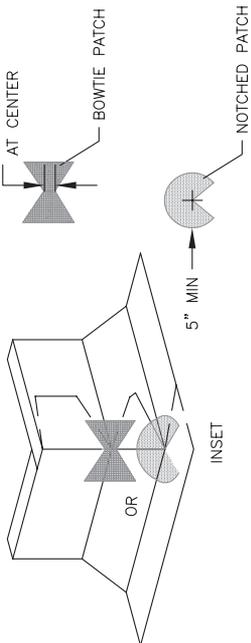
MH-MB-UN-CW10T

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS, OVER GRANULATED SURFACES, WHEN INSTALLING THE CAP SHEET.

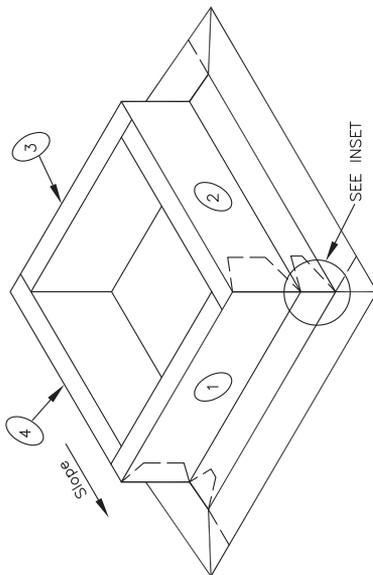


<p>MULE-HIDE PRODUCTS CO., INC.</p>	<p>DETAIL NO.: MHMB-UN-CW10T</p> <p>REVISION DATE: MARCH 2015</p>
<p>AREA DIVIDER / EQUIPMENT SUPPORT WOOD CURB SYSTEMS:</p> <p>APP MODIFIED BITUMEN</p>	



NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING-MEMBRANE REQUIREMENTS.
2. CUT MEMBRANE AND WRAP CORNERS AS SHOWN.
3. INSTALL BOWTIE OR NOTCHED PATCHES AS SHOWN IN INSET TO MAKE CORNERS WATER TIGHT.
4. FLASHING MAY BE CUT FLUSH WITH EDGE OF CURB (AS SHOWN) OR DOUBLE-WRAPPED AROUND CORNERS.



OUTSIDE CORNER
ISOMETRIC
SYSTEMS:

APP MODIFIED BITUMEN

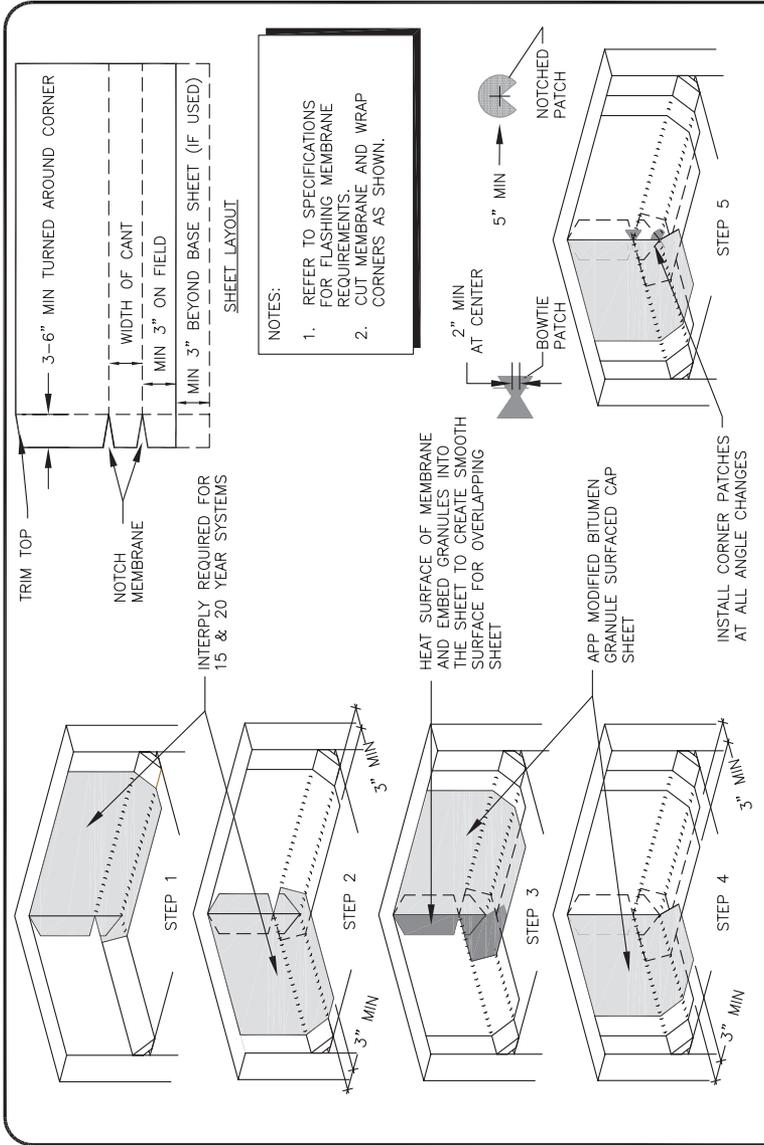
DETAIL NO.:

MHMB-UN-CR01T

REVISION DATE: MARCH 2015

**MULE-HIDE
PRODUCTS CO., INC.**

MH-MB-UN-CR02T

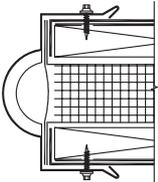


MULE-HIDE PRODUCTS CO., INC.	INSIDE CORNER ISOMETRIC SYSTEMS: APP MODIFIED BITUMEN	DETAIL NO.: MHMB-UN-CR02T REVISION DATE: MARCH 2015

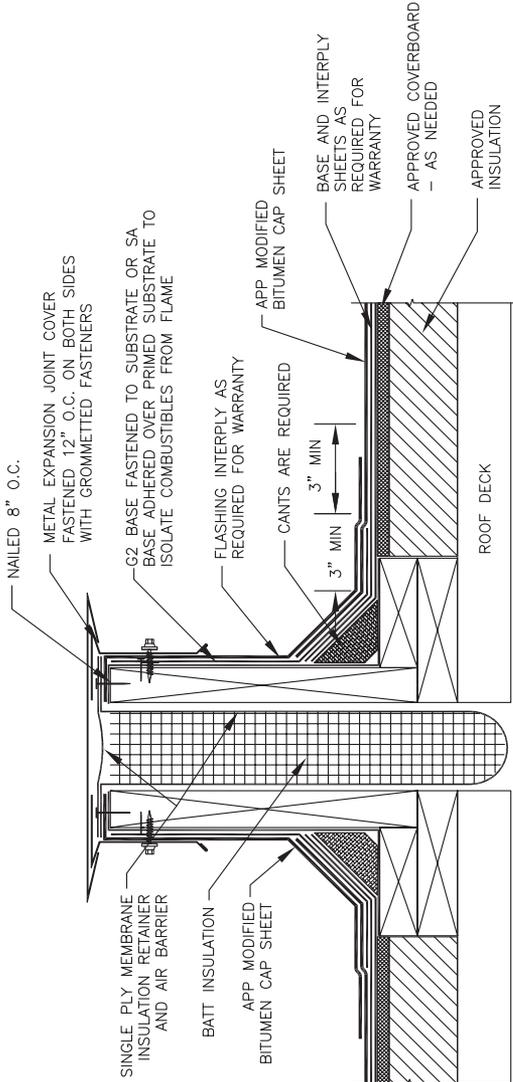
MH-MB-UN-XJ01T

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES.
3. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
4. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



PREFABRICATED EXPANSION JOINT COVER



EXPANSION JOINT CURB SYSTEMS:

APP MODIFIED BITUMEN

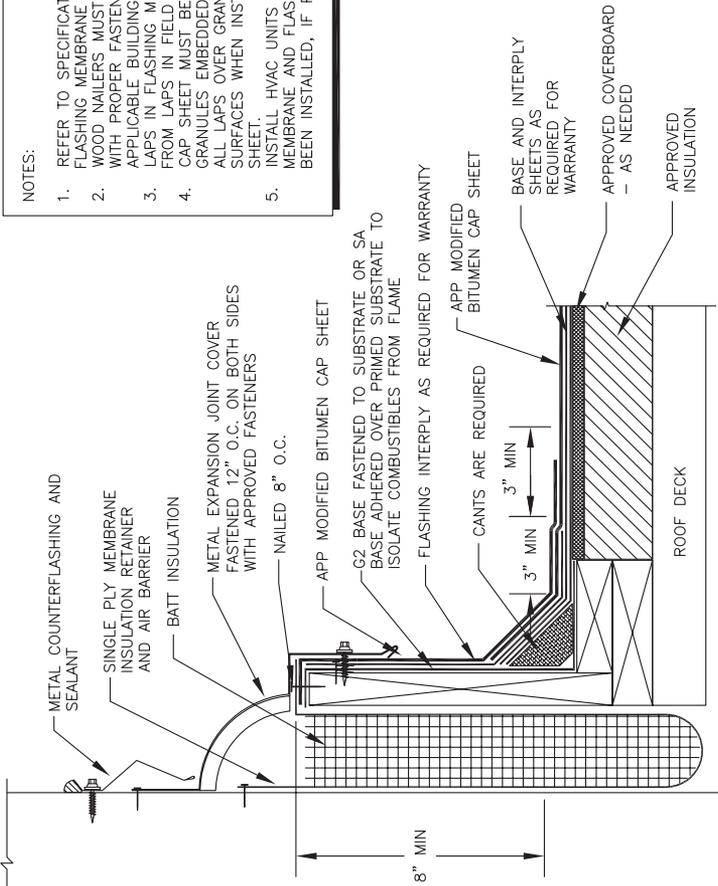
DETAIL NO.:

MHMB-UN-XJ01T

REVISION DATE: MARCH 2015

MULE-HIDE PRODUCTS CO., INC.

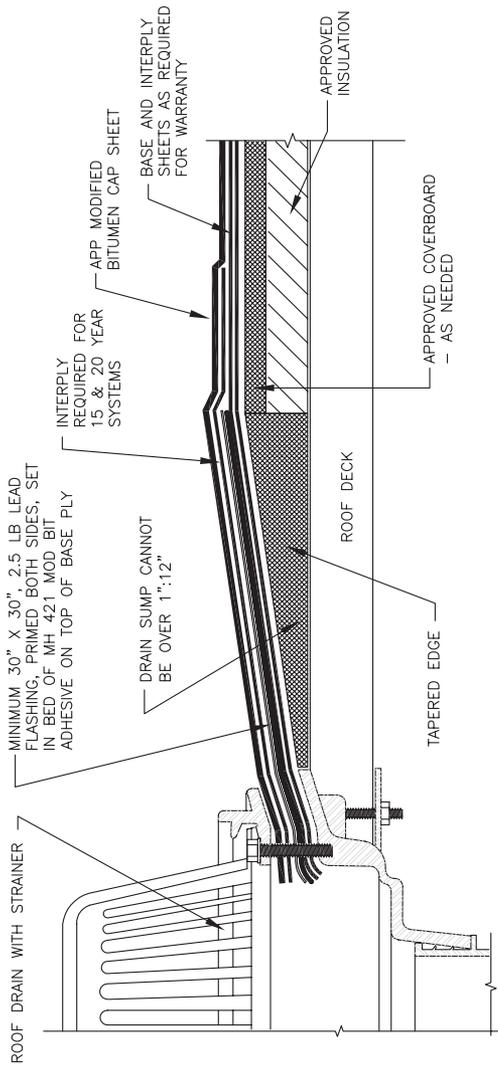
- NOTES:
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
 2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES.
 3. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
 4. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
 5. INSTALL HVAC UNITS AFTER THE ROOF MEMBRANE AND FLASHINGS HAVE BEEN INSTALLED, IF POSSIBLE.



MULE-HIDE PRODUCTS CO., INC.	EXPANSION JOINT WALL SYSTEMS: APP MODIFIED BITUMEN	DETAIL NO.: MHMB-UN-XJ02T REVISION DATE: MARCH 2015
	EXPANSION JOINT WALL SYSTEMS: APP MODIFIED BITUMEN	

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS
2. IF DRAIN SUMP IS GREATER THAN 1":12", A RETROFIT DRAIN INSERT MUST BE USED
3. A TARGET PATCH OF SMOOTH SURFACED MODIFIED BITUMEN IS REQUIRED IF A FIELD SEAM IS WITHIN 6" - 9" OF CLAMPING RING
4. NO SEAM CAN BE LESS THAN 6" FROM THE DRAIN CLAMPING RING

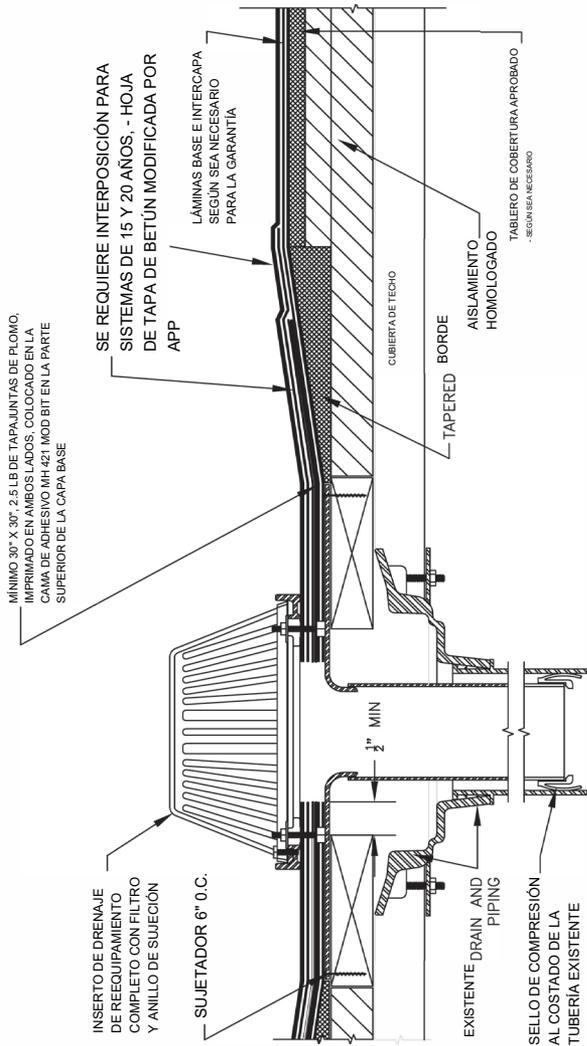


MULE-HIDE PRODUCTS CO., INC.	ROOF DRAIN SYSTEMS:	DETAIL NO.: MHMB-UN-DR01T
	APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTAS:

1. CONSULTE LAS ESPECIFICACIONES PARA CONOCER LOS REQUISITOS DE LA MEMBRANA DE TAPAJUNTAS
2. LAS CLAVADORAS DE MADERA DEBEN INSTALARSE ALREDEDOR DEL DESAGÜE
3. SE REQUIERE UN PARCHO OBJETIVO DE BETÚN MODIFICADO DE SUPERFICIE LISA SI UNA OBTURACIÓN DE CEMENTO ESTÁ PRESENTE EN EL BORDO DE LA UNIÓN DE LA MEMBRANA

MINIMUM 30" X 30" X 2.5 LB OF TAPAJUNTAS DE FLOMO, IMPRIMADO EN AMBOS LADOS, COLOCADO EN LA CAMA DE ADHESIVO MH-421 MOD BIT EN LA PARTE SUPERIOR DE LA CAPA BASE



INSERTO DE DRENAJE DE REEQUIPAMIENTO COMPLETO CON FILTRO Y ANILLO DE SUJECCIÓN

SE REQUIERE INTERPOSICIÓN PARA SISTEMAS DE 15 Y 20 AÑOS, - HOJA DE TAPA DE BETÚN MODIFICADA POR APP

LÁMINAS BASE E INTERCAPA SEGUN SEA NECESARIO PARA LA GARANTÍA

SELLO DE COMPRESIÓN AL COSTADO DE LA TUBERÍA EXISTENTE

TABLERO DE COBERTURA APROBADO - SEGUN SEA NECESARIO

PRODUCTOS DE PIEL DE MULA CO., INC.

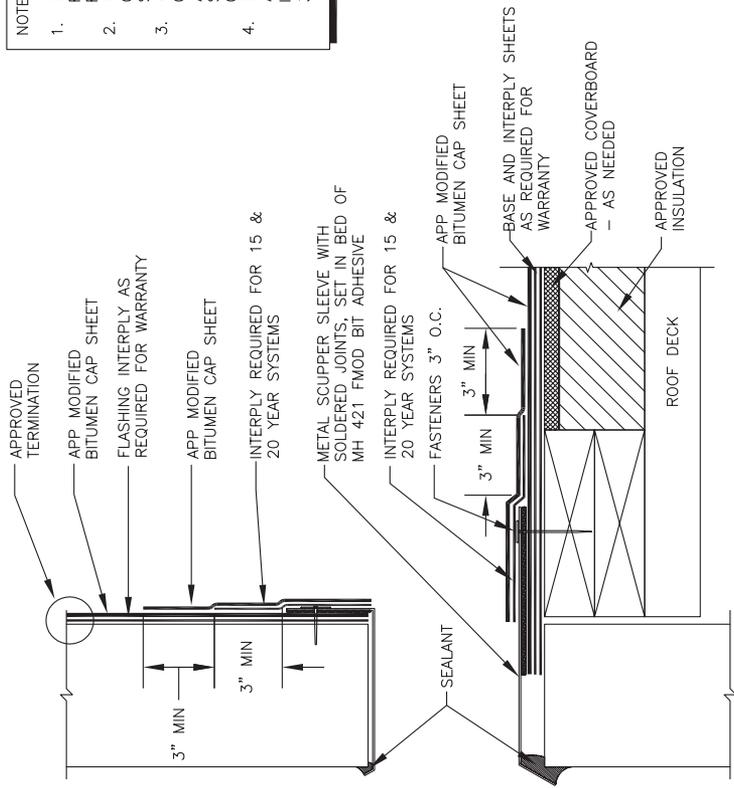
SISTEMAS DE DRENAJE DE INSERCIÓN DE ACTUALIZACIÓN: APLICACIÓN BETÚN MODIFICADO

Nº DETALLE: MHMB-UN-DR02T

FECHA DE REVISIÓN: MARZO DE 2015

NOTES:

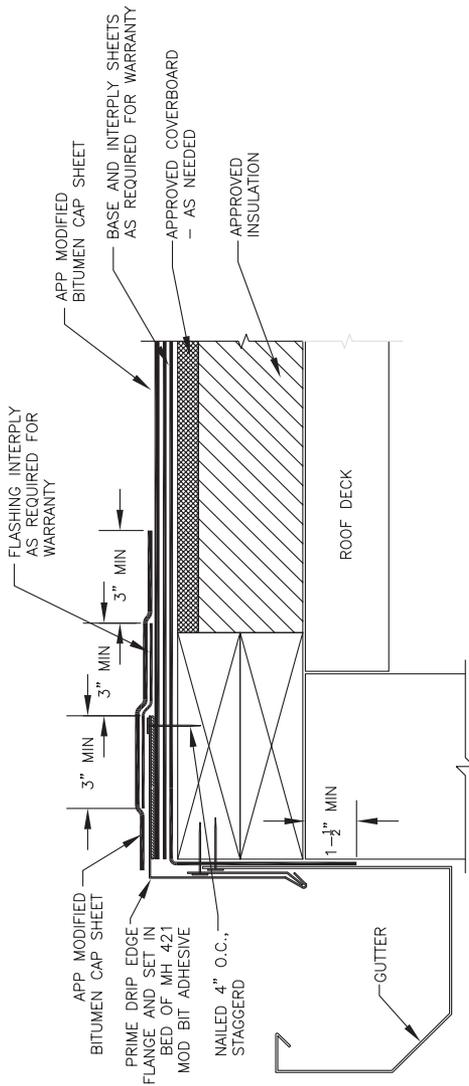
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS .36". IF WALL IS TALLER THAN .36", SEE DETAIL MHMB-UN-CW06T



MULE-HIDE PRODUCTS CO., INC.	THROUGH WALL SCUPPER SYSTEMS: APP MODIFIED BITUMEN
DETAIL NO.: MHMB-UN-DR03T	
REVISION DATE: MARCH 2015	

NOTES:

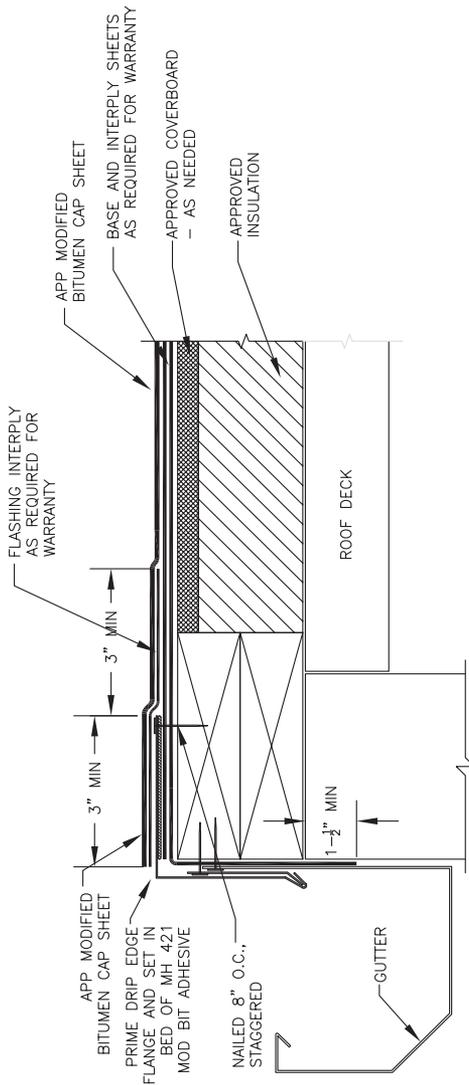
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES AND EXTEND BEYOND THE METAL FLANGE.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



MULE-HIDE PRODUCTS CO., INC.	GUTTER WITH DRIP EDGE SYSTEMS:	DETAIL NO.: MHMB-UN-DR04T REVISION DATE: MARCH 2015
	APP MODIFIED BITUMEN	

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES AND EXTEND BEYOND THE METAL FLANGE.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



GUTTER WITH DRIP EDGE
OPTION 2

SYSTEMS:

APP MODIFIED BITUMEN

DETAIL NO.:

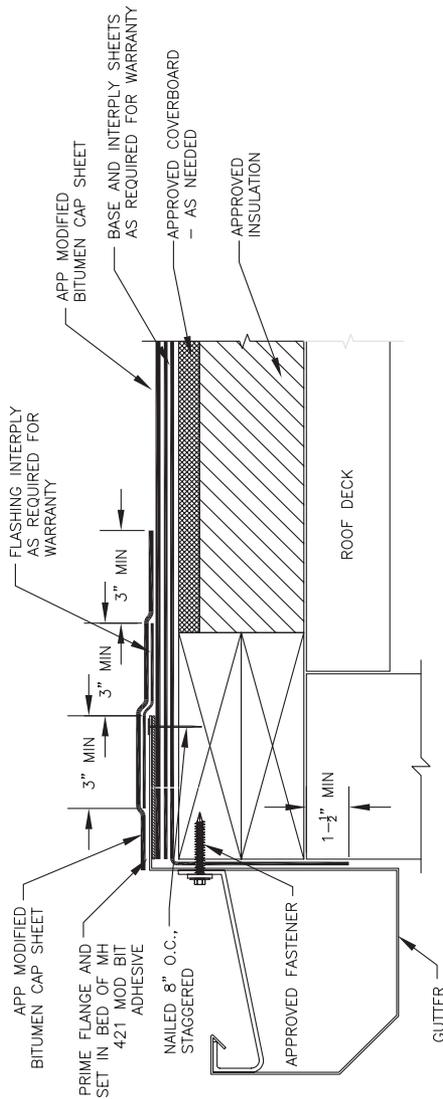
MHMB-UN-DR05T

REVISION DATE: MARCH 2015

**MULE-HIDE
PRODUCTS CO., INC.**

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES AND EXTEND BEYOND THE METAL FLANGE.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



FLANGED GUTTER
WITHOUT DRIP EDGE
SYSTEMS:

APP MODIFIED BITUMEN

DETAIL NO.:

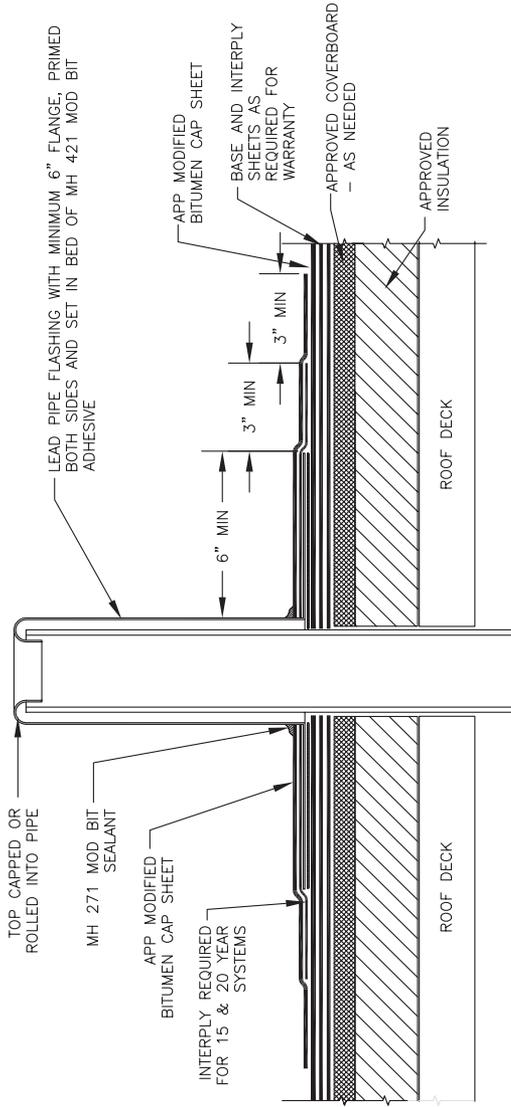
MHMB-UN-DR06T

REVISION DATE: MARCH 2015

**MULE-HIDE
PRODUCTS CO., INC.**

NOTES:

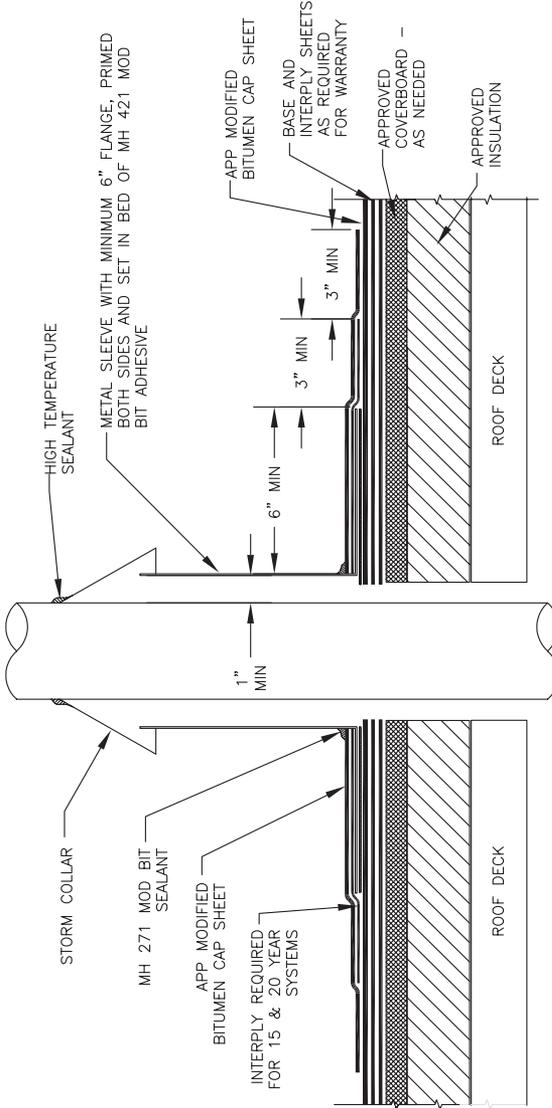
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



<p>MULE-HIDE PRODUCTS CO., INC.</p>	<p>VENT PIPE</p> <p>SYSTEMS:</p> <p>APP MODIFIED BITUMEN</p>
<p>DETAIL NO.:</p> <p>MHMB-UN-PP01T</p> <p>REVISION DATE: MARCH 2015</p>	

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. TEMPERATURE OF METAL SLEEVE MUST NOT EXCEED 160° F.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



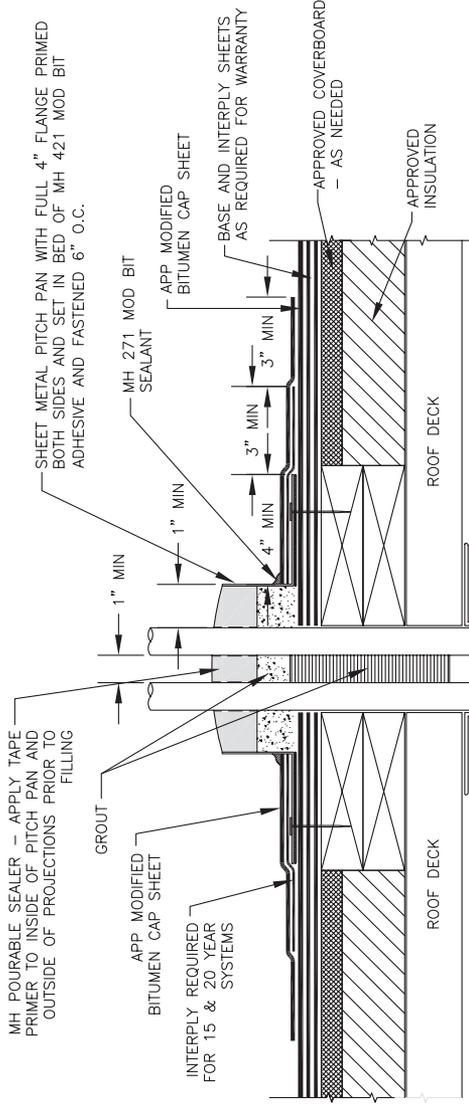
**MULE-HIDE
PRODUCTS CO., INC.**

**HOT STACK
SYSTEMS:
APP MODIFIED BITUMEN**

DETAIL NO.:
MHMB-UN-PP02T
REVISION DATE: MARCH 2015

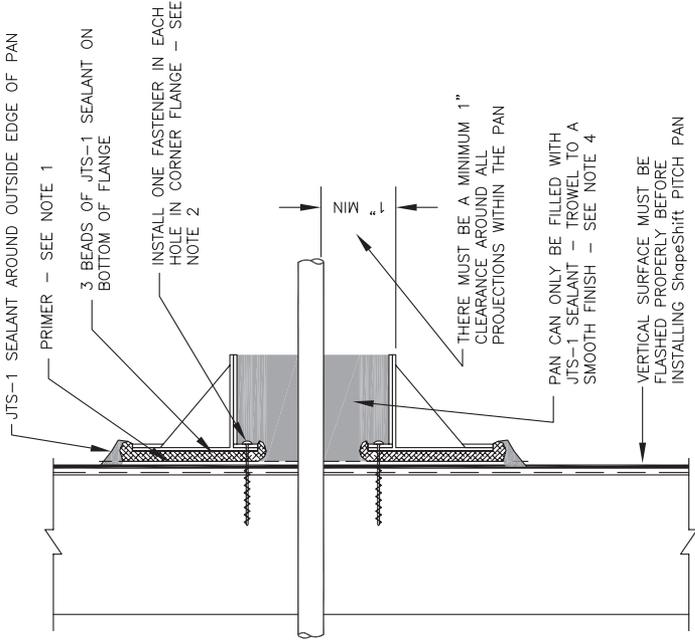
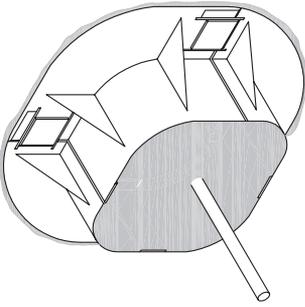
NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MATCHING THE INSULATION THICKNESS AND EXTENDING BEYOND THE FLANGE ARE REQUIRED.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



<p>MULE-HIDE PRODUCTS CO., INC.</p>	<p>DETAIL NO.: MHMB-UN-PP03T</p> <p>REVISION DATE: MARCH 2015</p>
<p>PENETRATION POCKET</p>	
<p>SYSTEMS:</p> <p>APP MODIFIED BITUMEN</p>	

MH-MB-142



NOTES:

1. MOD BIT MEMBRANE MUST BE PRIMED WITH 2-PART EPOXY PRIMER BEFORE SETTING FLANGE ON WALL.
2. PITCH PAN MUST BE FASTENED TO SUBSTRATE WITH 1 FASTENER IN EACH CORNER PIECE. PLACE FASTENER IN HOLE FOUND ON INSIDE FLANGE.
3. ShapeShift PITCH PANS CAN BE CONFIGURED INTO THE SHAPE NEEDED BY USING ANY COMBINATION OF CORNER AND STRAIGHT PIECES.
4. VERTICAL PITCH PANS CAN ONLY BE FILLED WITH JTS-1 SEALANT BECAUSE IT DOES NOT SHRINK OR SAG. NO OTHER SEALANTS ARE APPROVED.

**ShapeShift
VERTICAL SEALANT POCKET
SYSTEMS:**

ALL MOD BIT SYSTEMS

DETAIL NO.:

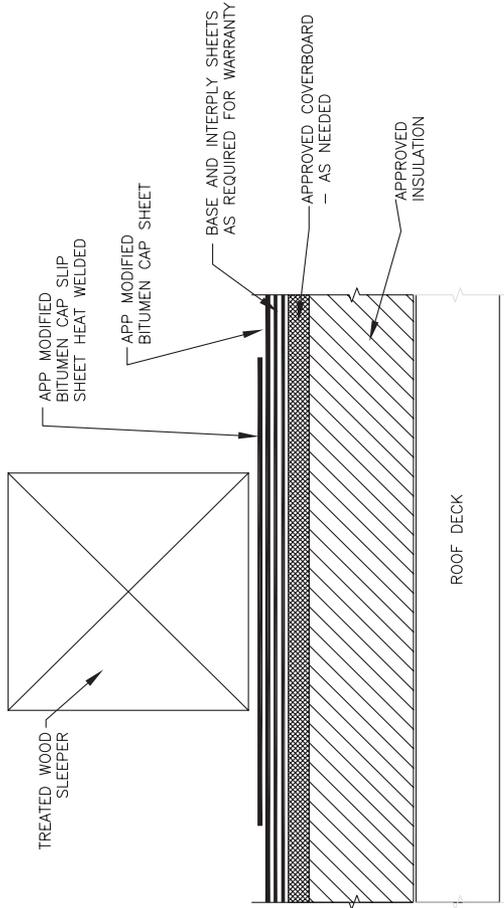
MHMB-142

REVISION DATE: 05/2018

**MULE-HIDE
PRODUCTS CO., INC.**

NOTES:

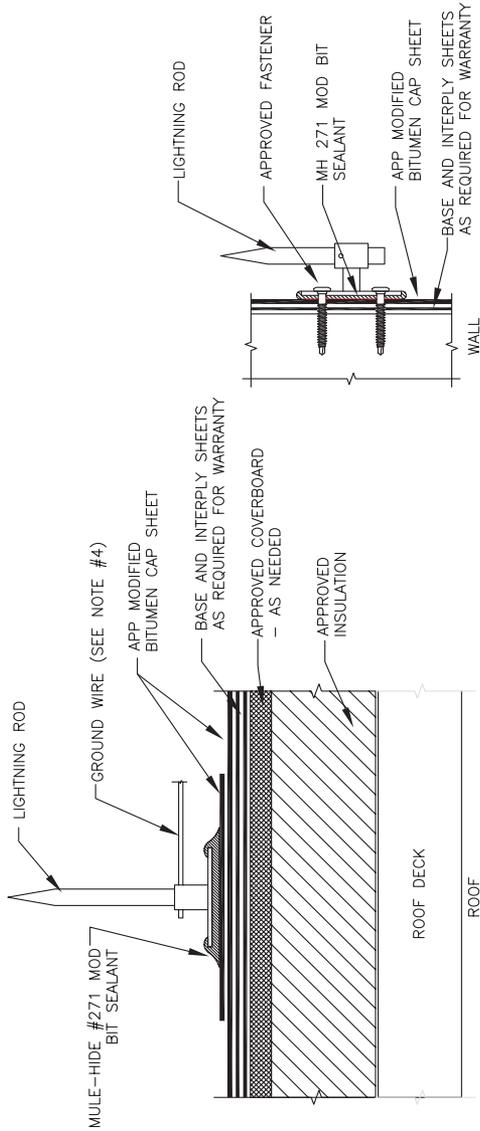
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. DO NOT INSTALL SLEEPERS OVER FASTENER PLATES OR SEAMS.
3. WOOD NAILERS MATCHING THE INSULATION THICKNESS IS REQUIRED WHEN THE WEIGHT SUPPORTED BY THE SLEEPER WILL CRUSH THE INSULATION.
4. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



MULE-HIDE PRODUCTS CO., INC.	SLEEPER SYSTEMS:	DETAIL NO.: MHMB-UN-PP05T
	APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. GROUND WIRE SUPPORTS ARE TO BE FLASHED IN A SIMILAR MANNER.
3. GROUND WIRE MUST BE ANCHORED SUFFICIENTLY TO PREVENT CONTACT WITH FIELD OR FLASHING MEMBRANE.
4. INSTALL ANOTHER LAYER OF CAP SHEET IF GROUND WIRE MUST COME IN CONTACT WITH FIELD OR FLASHING MEMBRANE.
5. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.

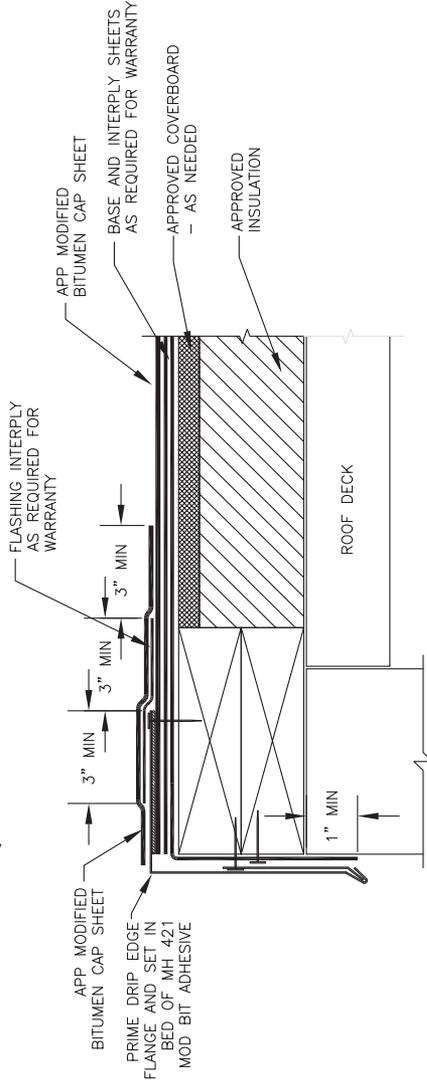
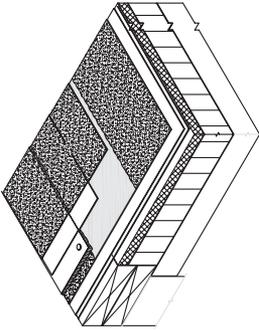


<p>MULE-HIDE PRODUCTS CO., INC.</p>	<p>LIGHTNING ROD SYSTEMS:</p> <p>APP MODIFIED BITUMEN</p>	<p>DETAIL NO.:</p> <p>MHMB-UN-PP06T</p> <p>REVISION DATE: MARCH 2015</p>
	<p>©</p>	

MH-MB-UN-RE01T

NOTES:

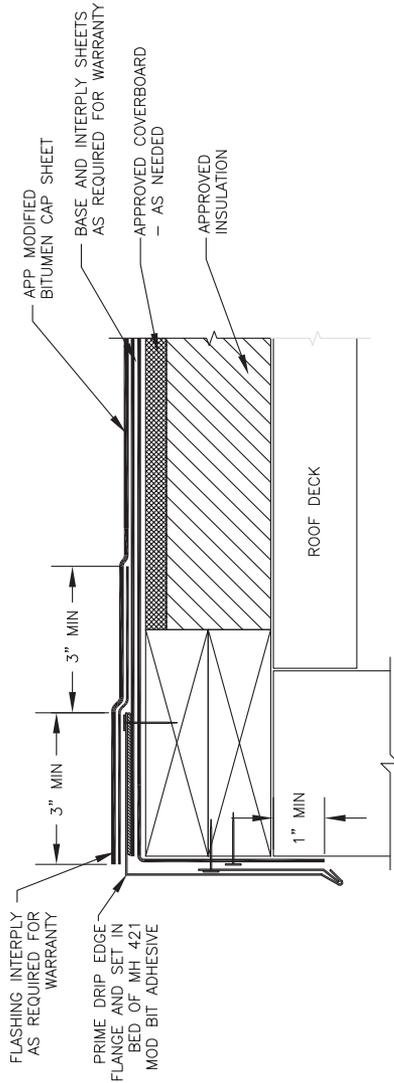
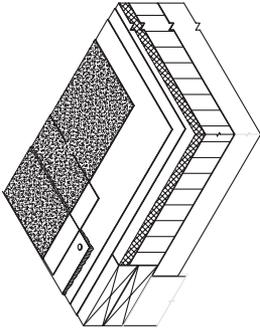
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES AND EXTEND BEYOND THE METAL FLANGE.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



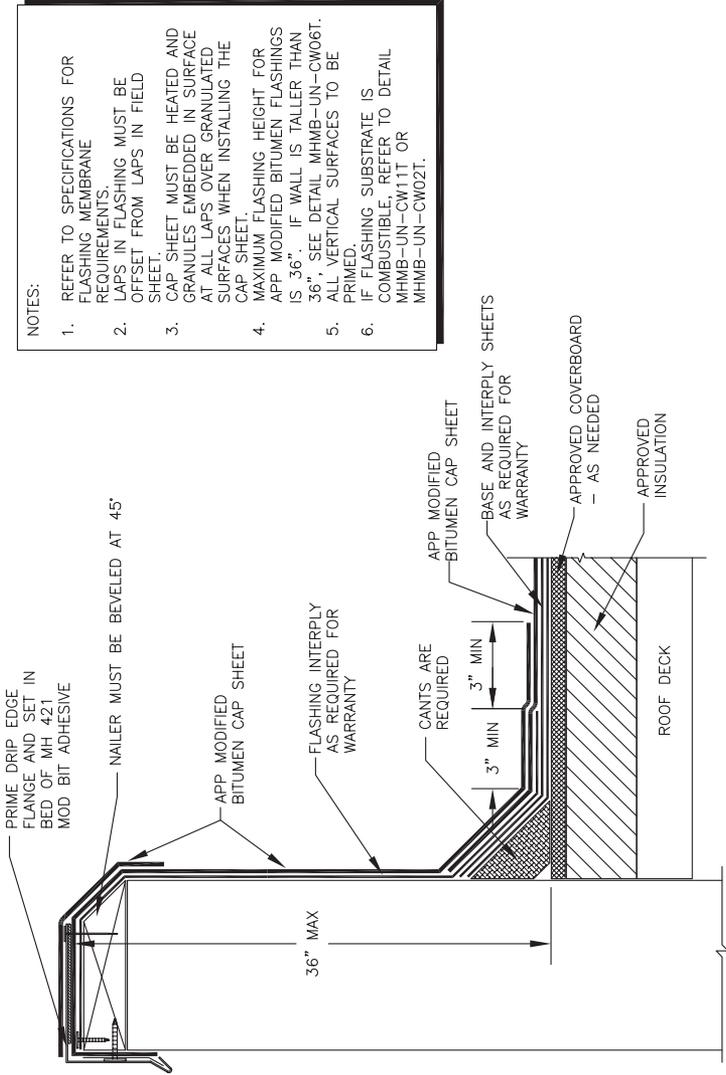
MULE-HIDE PRODUCTS CO., INC.	DRIP EDGE	DETAIL NO.: MHMB-UN-RE01T
	SYSTEMS: APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. WOOD NAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES AND EXTEND BEYOND THE METAL FLANGE.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



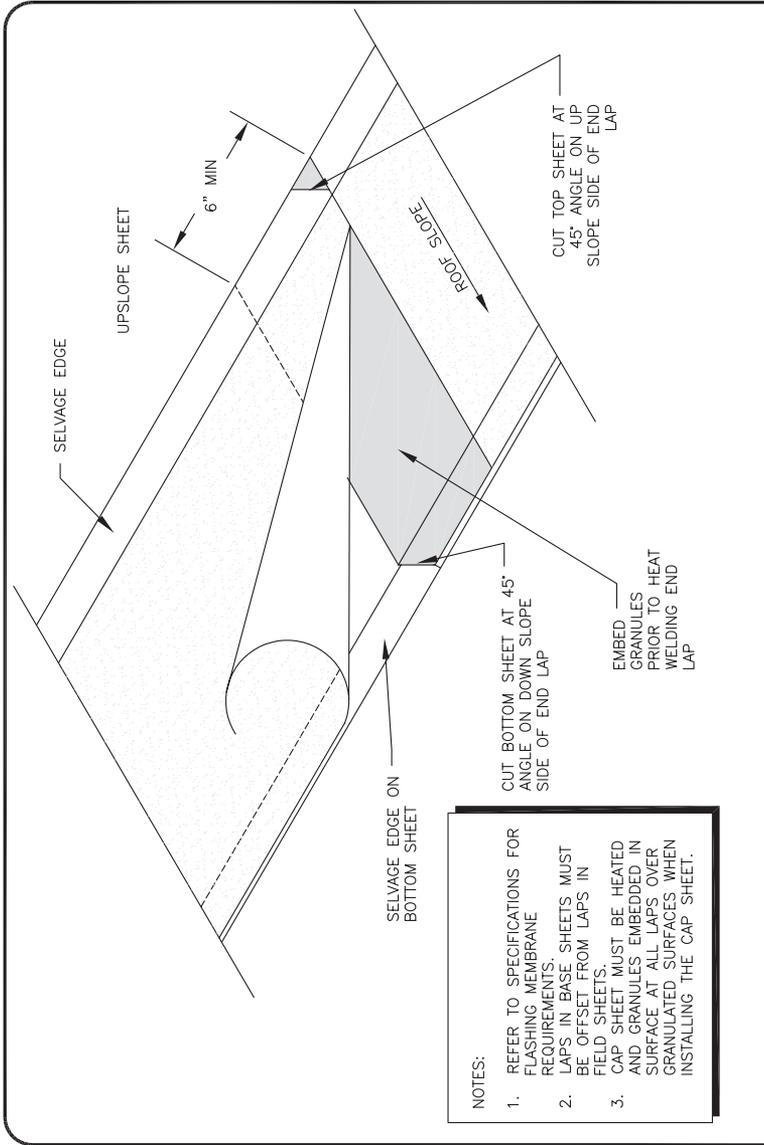
MULE-HIDE PRODUCTS CO., INC.	DRIP EDGE OPTION 2 SYSTEMS: APP MODIFIED BITUMEN	DETAIL NO.: MHMB-UN-RE02T REVISION DATE: MARCH 2015



NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN FLASHING MUST BE OFFSET FROM LAPS IN FIELD SHEET.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.
4. MAXIMUM FLASHING HEIGHT FOR APP MODIFIED BITUMEN FLASHINGS IS .36". IF WALL IS TALLER THAN 36", SEE DETAIL MHMB-UN-CW06T.
5. ALL VERTICAL SURFACES TO BE PRIMED.
6. IF FLASHING SUBSTRATE IS COMBUSTIBLE, REFER TO DETAIL MHMB-UN-CW11T OR MHMB-UN-CW02T.

MULE-HIDE PRODUCTS CO., INC.	ROOF EDGE ON PARAPET SYSTEMS: APP MODIFIED BITUMEN	DETAIL NO.: MHMB-UN-RE03T REVISION DATE: MARCH 2015
	©	

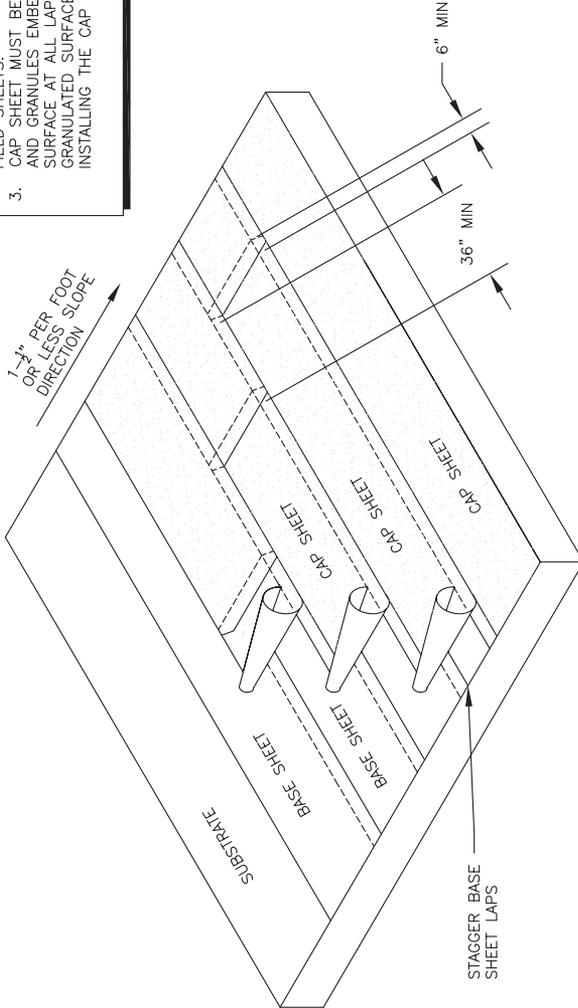


- NOTES:
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
 2. LAPS IN BASE SHEETS MUST BE OFFSET FROM LAPS IN FIELD SHEETS.
 3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.

MULE-HIDE PRODUCTS CO., INC.	END LAP	DETAIL NO.: MHMB-UN-SE01T
	SYSTEMS: APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTES:

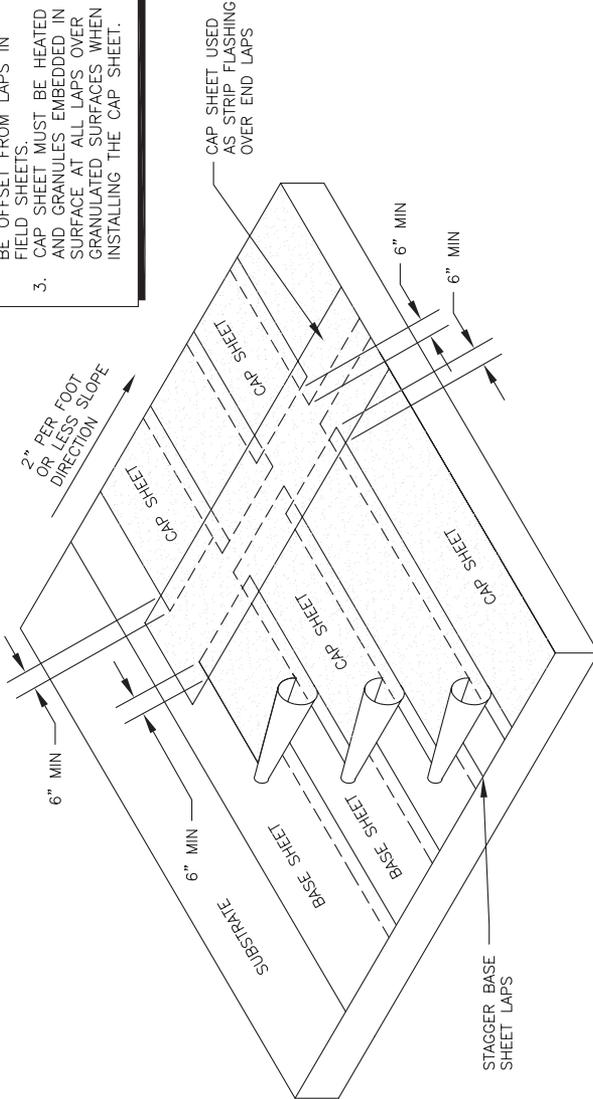
1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. LAPS IN BASE SHEETS MUST BE OFFSET FROM LAPS IN FIELD SHEETS.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



MULE-HIDE PRODUCTS CO., INC.	END LAPS OPTION 1	DETAIL NO.: MHMB-UN-SE02T
	SYSTEMS: APP MODIFIED BITUMEN	REVISION DATE: MARCH 2015

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS. SHEETS MUST BE OFFSET FROM LAPS IN FIELD SHEETS.
2. LAPS IN BASE SHEETS MUST BE OFFSET FROM LAPS IN FIELD SHEETS.
3. CAP SHEET MUST BE HEATED AND GRANULES EMBEDDED IN SURFACE AT ALL LAPS OVER GRANULATED SURFACES WHEN INSTALLING THE CAP SHEET.



END LAPS
OPTION 2

SYSTEMS:

APP MODIFIED BITUMEN

DETAIL NO.:

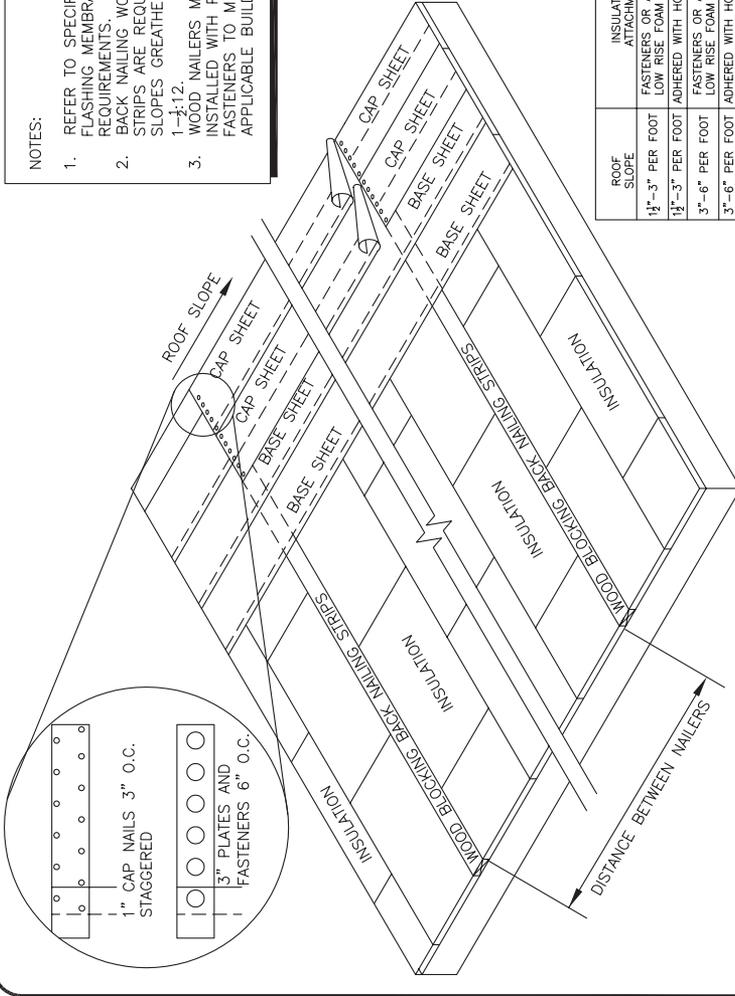
MHMB-UN-SE03T

REVISION DATE: MARCH 2015

**MULE-HIDE
PRODUCTS CO., INC.**

NOTES:

1. REFER TO SPECIFICATIONS FOR FLASHING MEMBRANE REQUIREMENTS.
2. BACK NAILING WOOD BLOCKING STRIPS ARE REQUIRED ON ALL SLOPES GREATER THAN 1- $\frac{1}{2}$:12.
3. WOOD MAILERS MUST BE INSTALLED WITH PROPER FASTENERS TO MEET APPLICABLE BUILDING CODES.



ROOF SLOPE	INSULATION ATTACHMENT	DISTANCE BETWEEN MAILERS
1 $\frac{1}{2}$ "-3" PER FOOT	FASTENERS OR APPROVED LOW RISE FOAM ADHESIVE	32"-0"
1 $\frac{1}{2}$ "-3" PER FOOT	ADHERED WITH HOT ASPHALT	16"-0"
3"-6" PER FOOT	FASTENERS OR APPROVED LOW RISE FOAM ADHESIVE	16"-0"
3"-6" PER FOOT	ADHERED WITH HOT ASPHALT	8"-0"

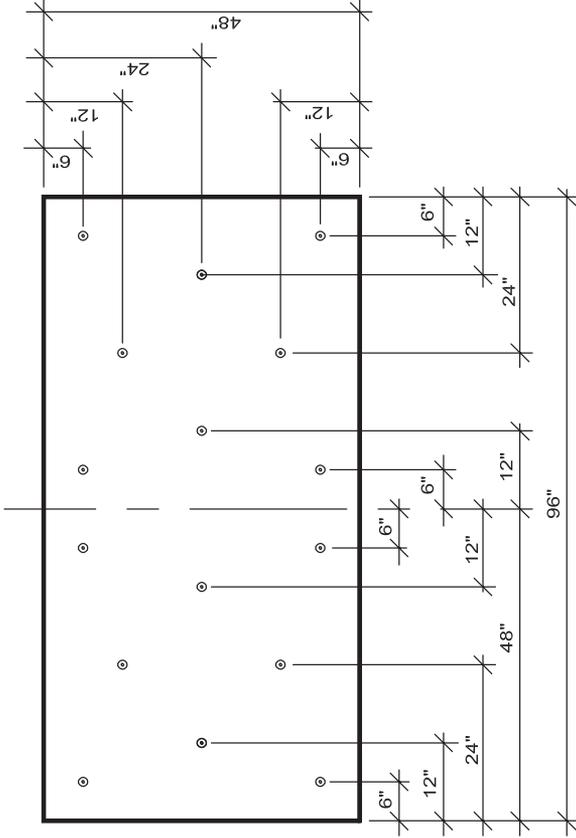
**BACK NAILING
PARALLEL WITH SLOPE
SYSTEMS:
APP MODIFIED BITUMEN**

DETAIL NO.:
MHMB-UN-SE04T
REVISION DATE: MARCH 2015

**MULE-HIDE
PRODUCTS CO., INC.**

MH-MB-INS1

THE ATTACHMENT PATTERN SHOWN IS THE STANDARD PATTERN FOR FIELD ATTACHMENT REQUIRED BY MULE-HIDE. THE ATTACHMENT IN THE PERIMETER AREA IS INCREASED 50% AND 75% IN THE CORNERS.



4' X 8' INSULATION ATTACHMENT (1 PER 2 SF.)
STANDARD ATTACHMENT

MULE-HIDE
PRODUCTS CO.,INC.
2003

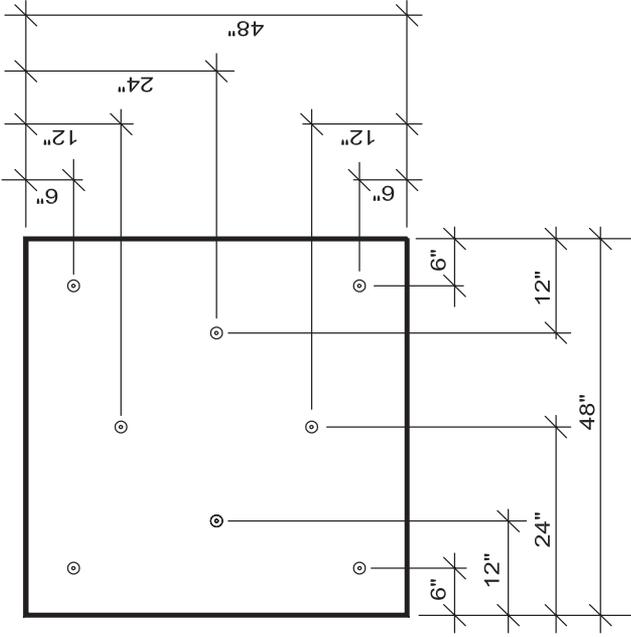
INSULATION ATTACHMENT - OPTION 1

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-INS-1

THE ATTACHMENT PATTERN SHOWN IS THE STANDARD PATTERN FOR FIELD ATTACHMENT REQUIRED BY MULE-HIDE. THE ATTACHMENT IN THE PERIMETER AREA IS INCREASED 50% AND 75% IN THE CORNERS.



4' X 4' INSULATION ATTACHMENT (1 PER 2 SF.)
STANDARD ATTACHMENT

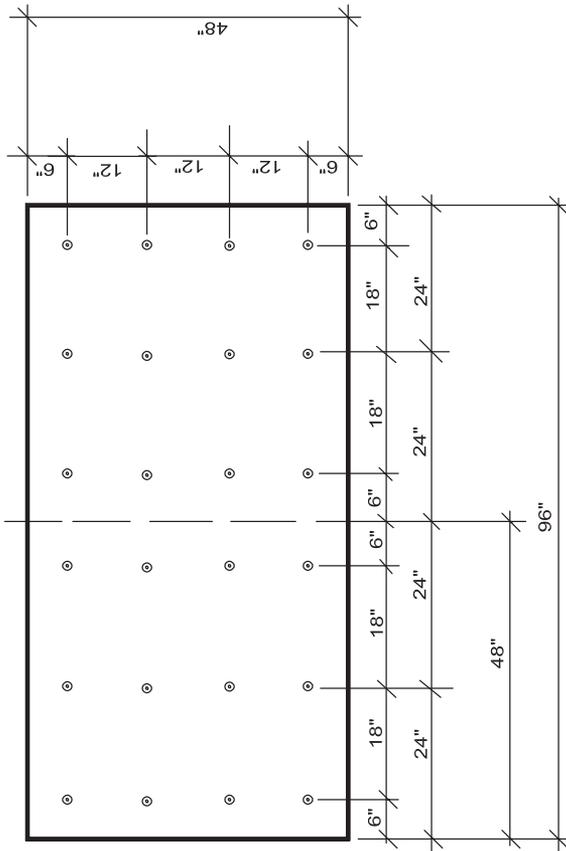
MULE-HIDE
PRODUCTS CO.,INC.
2003

INSULATION ATTACHMENT - OPTION 2

SELF-ADHERING MOD BIT SYSTEMS

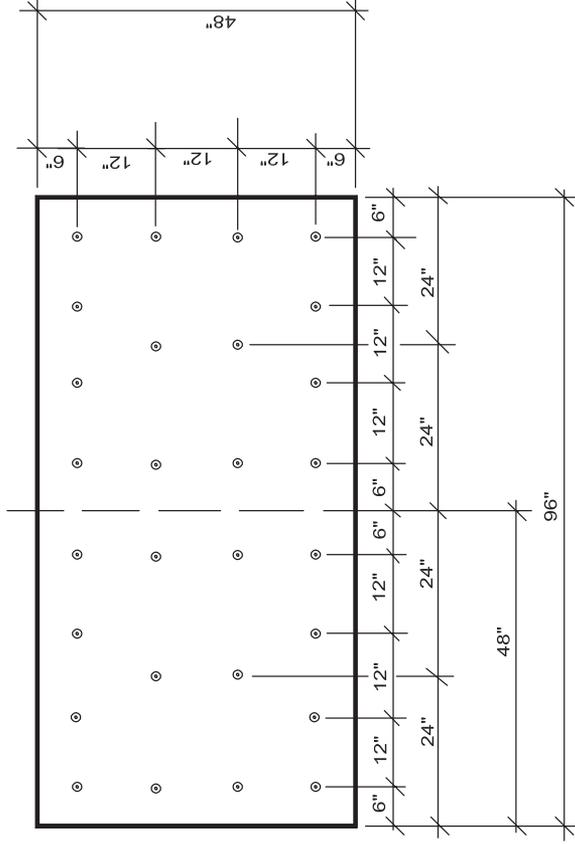
DETAIL NO.:

MH-MB-INS-2



4' X 8' INSULATION ATTACHMENT (1 PER 1.33 SF)
STANDARD ATTACHMENT (24 PER BOARD)

MULE-HIDE PRODUCTS CO.,INC. 2003	INSULATION ATTACHMENT - OPTION 3		DETAIL NO.:
	SELF-ADHERING MOD BIT SYSTEMS		MH-MB-INS-3

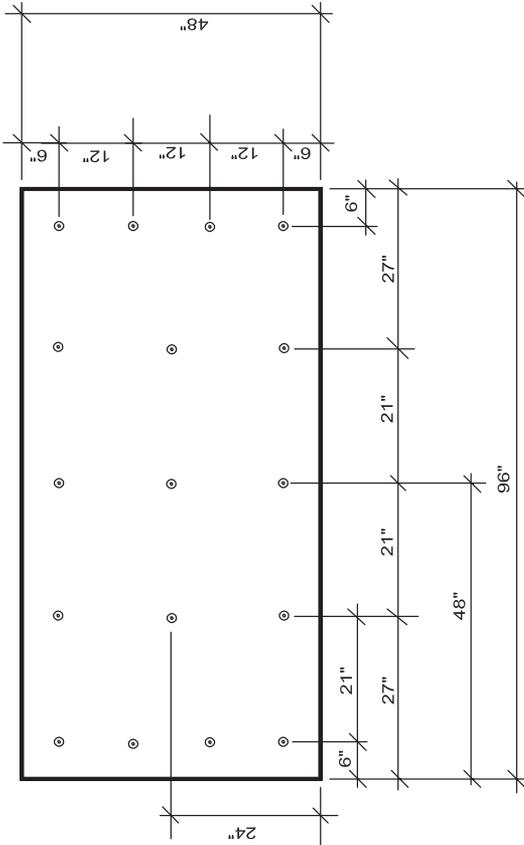


4' X 8' INSULATION ATTACHMENT (1 PER 1.14 SF)
 STANDARD ATTACHMENT (28 PER BOARD)

MULE-HIDE
 PRODUCTS CO.,INC.
 2003

INSULATION ATTACHMENT - OPTION 4
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-INS-4



4' X 8' ORIENTED STRAND BOARD ATTACHMENT (1 PER 1.88 SF)
STANDARD ATTACHMENT (MINIMUM 7/16" THICK)

MULE-HIDE
PRODUCTS CO.,INC.
2003

INSULATION ATTACHMENT - OPTION 5

SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:

MH-MB-INS-5

MH-NB-FM1-60

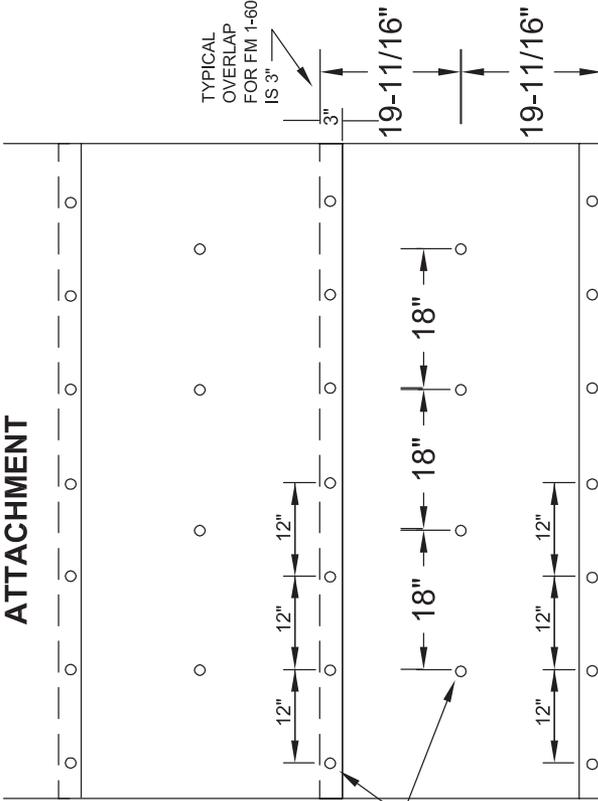
TYPICAL FM 1-60 ATTACHMENT

FIELD FASTENING PATTERN FOR NAIL BASE

NOTE: TYPICALLY, CORNERS REQUIRE 100% INCREASE OF FASTENERS AND PERIMETERS REQUIRE 50% INCREASE.

FASTENER PLACEMENT:
12" O.C. @ SEAMS
18" O.C. @ CENTER OF ROLLS

FACTORY MUTUAL APPROVED FASTENERS AND PLATES



39-3/8" WIDE NAIL BASE ROLLS

DETAIL NO.:
MH-MB-NB
FM 1-60

NAIL BASE FASTENING PATTERN

SELF-ADHERING MOD BIT SYSTEMS

MULE-HIDE
PRODUCTS CO., INC.
2003

MH-NB-FM1-90

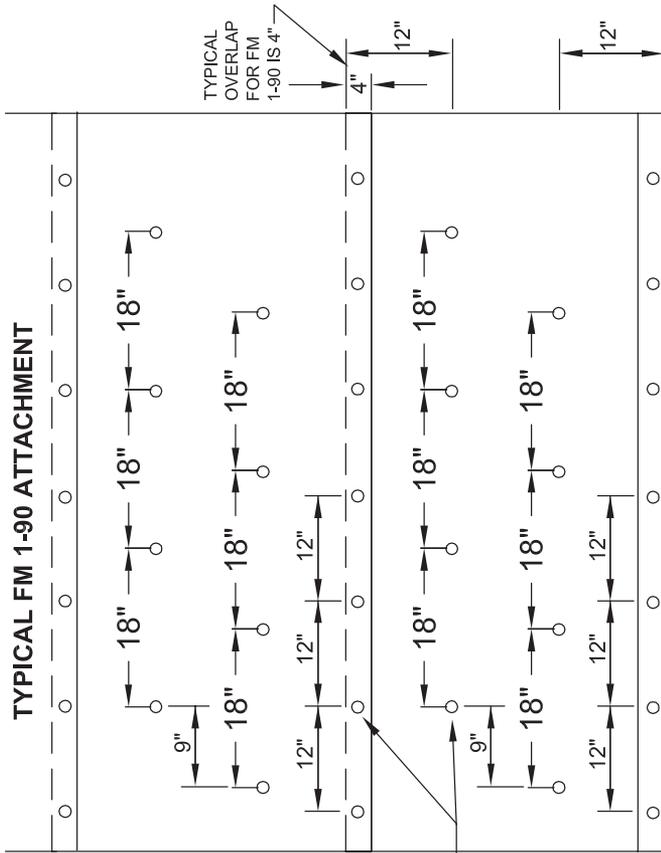
FIELD FASTENING PATTERN FOR NAIL BASE SHEET

NOTE: TYPICALLY, CORNERS REQUIRE 100% INCREASE OF FASTENERS AND PERIMETERS REQUIRE 50% INCREASE.

FASTENER PLACEMENT:
 12" O.C. @ SEAMS
 18" O.C. @ FIELD, 2 ROWS SPACED 12" APART AND FROM SHEET EDGE AND STAGGERED 9"

FACTORY MUTUAL APPROVED FASTENERS AND PLATES

TYPICAL FM 1-90 ATTACHMENT



39-3/8" WIDE NAIL BASE ROLLS

MULE-HIDE PRODUCTS CO., INC.
 2003

NAIL BASE FASTENING PATTERN
SELF-ADHERING MOD BIT SYSTEMS

DETAIL NO.:
MH-MB-NB FM 1-90



Centro Nacional de Apoyo • 1195 Prince Hall Drive • Beloit, WI 53511

©2018 • Impreso en EE. UU. • MH LIT# SP. PGMB • Rev. 0 8/18