



2019 Approved Hurricane Products

| Product Description | FBC (Non-HVHZ) | FBC (HVHZ) | TDI Evaluation | IBC/IRC | Miami-Dade NOA# |
|----------------------------|-----------------------|-------------------|-----------------------|----------------|------------------------|
|----------------------------|-----------------------|-------------------|-----------------------|----------------|------------------------|

• Panels - Aluminum, Steel, Polycarbonate & Fabric:

| | | | | | |
|---|---|---|--|---------------------|---|
| 2" 28 Ga Galvanized Steel BERTHA™ Panel | FL 22270 DWG#: EMS005 | FL 22270 DWG#: EMS004 | | | |
| 2" .050 Aluminum BERTHA™ Panel | FL 11964 DWG#: 17-097 | | SHU-124 DWG#: 06-171 | DWG#: 17-064 | |
| 2" 24 GA Galvanized Steel BERTHA™ Panel | FL 11964 DWG#: 17-089 | | SHU-109 DWG#: 08-006 | DWG#: 13-057 | |
| 2" Clear Panel | FL28390 DWG#: 18-6492 FL15094 DWG#: 17-088 | FL28390 DWG#: 18-6492 | SHU-116 DWG#: 03-155-1343b | DWG#: 09-123 | |
| 2-1/4" .040 Aluminum BERTHA™ Panel | FL 11968 DWG#: 17-094 | | | DWG#: 13-062 | |
| 2-1/4" .050 Aluminum BERTHA™ Panel | FL 11968 DWG#: 17-096 | FL 11969 DWG#: 17-100 | SHU-47 DWG#: 05-012 | DWG#: 13-061 | |
| 2-1/4" 24 GA Galvanized Steel BERTHA™ Panel | FL 11968 DWG#: 17-095 | | | DWG#: 13-060 | |
| 2-1/4" .030 Galvanized Steel BERTHA™ Panel | | FL 11969 DWG#: 17-099 | | | |
| 2-1/4" BERTHA™ Clear Panel | FL 11968 DWG#: 17-098 | | SHU-168 DWG#: 13-048 | DWG#: 07-230 | |
| BERTHA™ Guard Fabric Panel+ | FL 13271 DWG#: 17-4890 | HurricaneFabric.com FL 17661 DWG#: 15-2452 | HurricaneFabric.com SHU-204 DWG#: 11-0915 | | NOA 15-0316.09 DWG#: 14-2202 |

• Non-ASSA Bahama & Colonial Shutters; Supreme Impact System:

| | | | | | |
|---|---------------------------------|--|--|--------------------|--|
| BERTHA™ Board & Batten Shutter | FL 11967 DWG# 15-047 | | SHU-161 DWG# 13-052 | DWG# 07-254 | |
| Aluminum Bahama Shutter | FL 14452 DWG# 15-167 | | | | |
| Aluminum Colonial Shutter | FL 14451 DWG# 15-168 | | | | |
| Brickhouse Low Profile Colonial Shutter | | | Single: SHU-210 Bifold: SHU-212 | | |

FBC (Non-HVHZ): Meets Florida Building Code for Non-High Velocity Hurricane Zones

FBC (HVHZ): Meets Florida Building Code for High Velocity Hurricane Zones

TDI: Meets Texas Department of Insurance Standards

IBC: Meets International Building Code

IRC: Meets International Residential Code

Miami-Dade NOA: Meets Florida Building Code for High Velocity Hurricane Zones (Dade County)

For specific product approvals and code standards contact your EMS Sales Representative.

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+ See www.hurricanefabric.com for more information

Hurricane 01

04/10/19

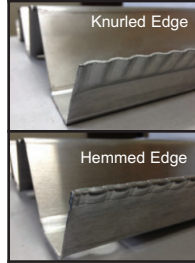
2" BERTHA™ ROLL FORM STORM PANEL SYSTEM



Before Installation

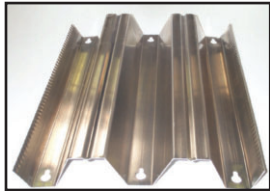
After Installation

| 2" Panels | Hemmed | Knurled |
|---------------------------|---------|---------|
| .050 Aluminum | NC Only | FL, NC |
| .050 Aluminum - 1/2 panel | N/A | FL, NC |
| 24 Gauge Galv Steel | N/A | FL, NC |
| 24 Gauge Galv Steel - 1/2 | N/A | FL |
| 24 Gauge Galv Steel - 1/2 | FL | N/A |



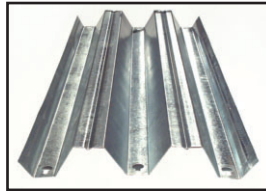
Any item manufactured in FL is available via shuttle to the other branches.
 Any item manufactured in NC is available via shuttle to TX.
 FL • NC • TX maintain inventory of 20' panels that can be offline punched and cut to size.

2" .050 BERTHA™ Aluminum Storm Panel Mill Finish
 1/2 panel available



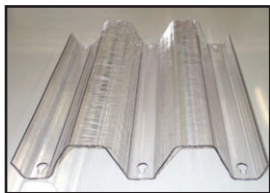
Code Approved:
 FBC (Non-HVHZ), TDI, IBC/IRC

2" 24-Gauge BERTHA™ Galvanized Steel Panel
 1/2 panel available



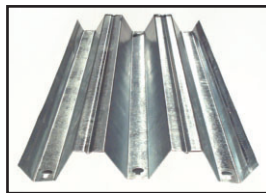
Code Approved:
 FBC (Non-HVHZ), TDI, IBC/IRC

2" BERTHA™ Clear Panel
 1/2 panel available



Code Approved:
 FBC (Non-HVHZ), FBC (HVHZ),
 TDI, IBC/IRC, Miami-Dade

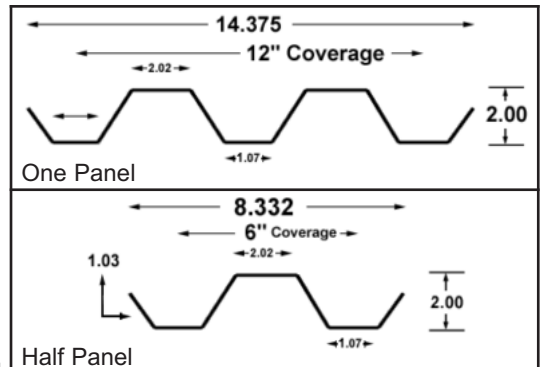
2" 28-Gauge BERTHA™ Galvanized Steel Panel



Code Approved:
 FBC (Non-HVHZ), FBC (HVHZ)

2" Coverage Chart

| # of Panels | 2" Total Panel Coverage | Cut Mounting Track At: |
|-------------|-------------------------|------------------------|
| 1 | 13.375" | 14.375" |
| 1.5 | 19.250" | 20.375" |
| 2 | 25.375" | 26.375" |
| 2.5 | 31.250" | 32.375" |
| 3 | 37.250" | 38.375" |
| 3.5 | 43.125" | 44.375" |
| 4 | 49.375" | 50.375" |
| 4.5 | 55.250" | 56.375" |
| 5 | 61.000" | 62.375" |
| 5.5 | 67.000" | 68.375" |
| 6 | 72.750" | 74.375" |
| 6.5 | 78.625" | 80.375" |
| 7 | 84.625" | 86.375" |
| 7.5 | 90.500" | 92.375" |
| 8 | 96.500" | 98.375" |
| 8.5 | 102.375" | 104.375" |
| 9 | 108.250" | 110.375" |
| 9.5 | 114.250" | 116.375" |
| 10 | 120.125" | 122.375" |
| 10.5 | 126.000" | 128.375" |
| 11 | 132.000" | 134.375" |
| 11.5 | 137.875" | 140.375" |
| 12 | 143.750" | 146.375" |
| 12.5 | 149.625" | 152.375" |
| 13 | 155.750" | 158.375" |
| 13.5 | 161.500" | 164.375" |
| 14 | 167.375" | 170.375" |
| 14.5 | 173.250" | 176.375" |
| 15 | 179.625" | 182.375" |
| 15.5 | 185.500" | 188.375" |
| 16 | 191.500" | 194.375" |
| 16.5 | 197.375" | 200.375" |
| 17 | 203.625" | 206.375" |
| 17.5 | 209.500" | 212.375" |
| 18 | 215.500" | 218.375" |



Hurricane 02



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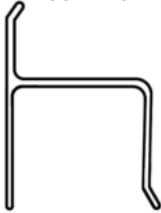
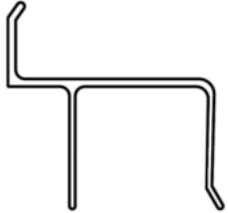
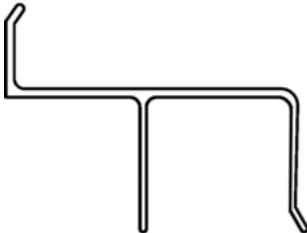


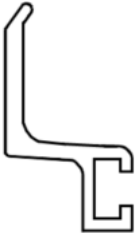
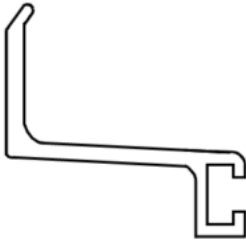
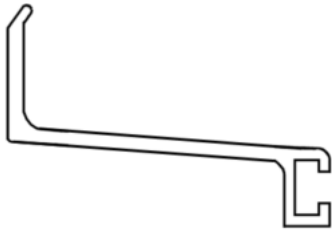
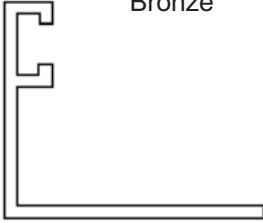
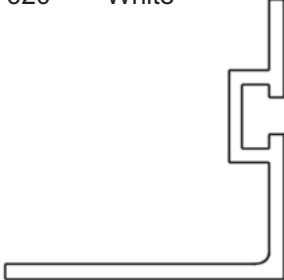
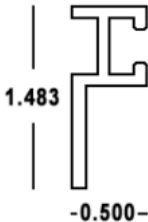
Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE; Akron, OH, Van Buren, AR; Atlanta, GA and Dallas, TX

website: www.easternmetal.com

e-mail: info@easternmetal.com

version: 09/05/19

CODE APPROVED BERTHA™ HEADERS: 2" X .094

| | | |
|---|---|--|
| <p>BERTHA™ U-Header 2" x .094" x 20' 40-WH-4500 White 40-MB-4500 Bronze <u>40-WH-450</u> .062 White Non-Approved <u>40-MB-450</u> .062 Bronze Non-Approved</p>  | <p>BERTHA™ H-Header 2" x .094" x 20' 40-WH-3500 White 40-MB-3500 Bronze <u>40-WH-350</u> .062 White Non-Approved <u>40-MB-350</u> .062 Bronze Non-Approved</p>  | <p>1" Build-Out BERTHA™ Header 2" x .094" x 20' 40-WH-3550 White 40-MB-3550 Bronze</p>  |
| <p>2" Build-Out BERTHA™ Header 2" x .094" x 20' 40-WH-3560 White 40-MB-3560 Bronze</p>  | <p>3" Build-Out BERTHA™ Header 2" x .094" x 20' 40-WH-3570 White 40-MB-3570 Bronze</p>  | <p>BERTHA™ Studless Flat Track x 20' 40-63-615 (TX) M/F 40-WH-615 White 40-MB-615 Bronze</p>  |
| <p>BERTHA™ 1" Studless Track x 20' 40-WH-630 White 40-MB-630 Bronze</p>  | <p>BERTHA™ 2" Studless Track x 20' 40-WH-632 White 40-MB-632 Bronze</p>  | <p>BERTHA™ 3" Studless Track x 20' 40-WH-635 White</p>  |
| <p>BERTHA™ Studless Angle Track x 20' 40-WH-610 White 40-MB-610 Bronze</p>  | <p>BERTHA™ Reverse "F" Track x 20' 40-WH-620 White</p>  | <p>BERTHA™ Stucco F-Track x 20' 1/2" MILL ORDER <u>52-63-5615</u></p>  |

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Hurricane 03



| | | | |
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2-1/4" BERTHA™ ROLL FORM STORM PANEL SYSTEM

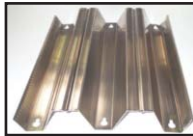
****All panels are available cut-to-length**

| 2-1/4" Panels | Hemmed | Knurled |
|----------------------------|--------|---------|
| .040 Aluminum | N/A | FL |
| .050 Aluminum | FL | FL |
| .050 Aluminum - 1/2 panel | N/A | FL |
| 24 Gauge Galv Steel | FL | FL |
| 24 Gauge Galv Steel - 1/2 | N/A | FL |
| .030 Miami Dade Galv Steel | N/A | FL |



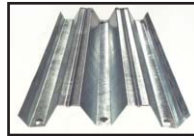
Any item manufactured in FL is available via Shuttle to the other branches.

2-1/4" .040 BERTHA™ Aluminum Storm Panel Mill Finish



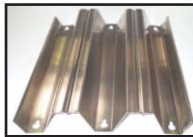
Code Approved:
FBC (Non-HVHZ), IBC/IRC

2-1/4" 24-Gauge BERTHA™ Galvanized Steel Panel 1/2 panel available



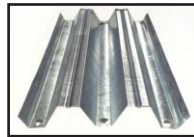
Code Approved:
FBC (Non-HVHZ), IBC/IRC

2-1/4" .050 BERTHA™ Aluminum Storm Panel Mill Finish*White *1/2 panel available



Code Approved:
FBC (Non-HVHZ), FBC (HVHZ),
TDI, IBC/IRC, Miami-Dade

2-1/4" .030 BERTHA™ Galvanized Steel Panel 1/2 panel available



Code Approved:
FBC (HVHZ)

2-1/4" BERTHA™ Clear Panel



Code Approved:
FBC (Non-HVHZ), TDI, IBC/IRC

2-1/4" ValueGuard Panel x 240" 103-06-240 (NC/TX) White Translucent **CLOSEOUT**



Code Approved:
FBC (Non-HVHZ), TDI, IBC/IRC

Pre-Cut 2-1/4" Storm Panels

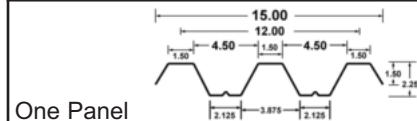
FL: In Stock; NC: Mfg lead time less than 1 week

| .040 Aluminum Mill Finish | .050 Aluminum Mill Finish | Clear Panel Polycarbonate |
|------------------------------|------------------------------|------------------------------|
| 80-40-33 x 33" | 77-52-33 x 33" | 79-06-33 x 33" |
| 80-40-47 x 47" | 77-52-47 x 47" | 79-06-47 x 47" |
| 80-40-57 x 57" | 77-52-57 x 57" | 79-06-57 x 57" |
| 80-40-70 x 70" | 77-52-70 x 70" | 79-06-70 x 70" |
| 80-40-88 x 88" | 77-52-88 x 88" | 79-06-88 x 88" |
| 80-40-102 x 102" | 77-52-102 x 102" | 79-06-102 x 102" |

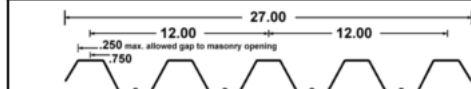
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2-1/4" Coverage Chart

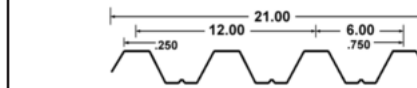
| # OF PANELS | TOTAL PANEL COVERAGE | CUT TRACK AT: |
|-------------|----------------------|---------------|
| 1 | 13.375" | 15" |
| 1-1/2 | 19.250" | 21" |
| 2 | 25.375" | 27" |
| 2-1/2 | 31.250" | 33" |
| 3 | 37.250" | 39" |
| 3-1/2 | 43.125" | 45" |
| 4 | 49.375" | 51" |
| 4-1/2 | 55.250" | 57" |
| 5 | 61.000" | 63" |
| 5-1/2 | 67.000" | 69" |
| 6 | 72.750" | 75" |
| 6-1/2 | 78.625" | 81" |
| 7 | 84.625" | 87" |
| 7-1/2 | 90.500" | 93" |
| 8 | 96.500" | 99" |
| 8-1/2 | 102.375" | 105" |
| 9 | 108.250" | 111" |
| 9-1/2 | 114.250" | 117" |
| 10 | 120.125" | 123" |
| 10-1/2 | 126.000" | 129" |
| 11 | 132.000" | 135" |
| 11-1/2 | 137.875" | 141" |
| 12 | 143.750" | 147" |
| 12-1/2 | 149.625" | 153" |
| 13 | 155.750" | 159" |
| 13-1/2 | 161.500" | 165" |
| 14 | 167.375" | 171" |
| 14-1/2 | 173.250" | 177" |
| 15 | 179.625" | 183" |
| 15-1/2 | 185.500" | 189" |
| 16 | 191.500" | 195" |
| 16-1/2 | 197.375" | 201" |
| 17 | 203.625" | 207" |
| 17-1/2 | 209.500" | 213" |
| 18 | 215.500" | 219" |



One Panel



Two Panels



One & a Half Panels

Hurricane 04



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(314) 344-3349 - fax


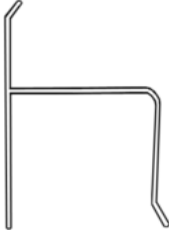
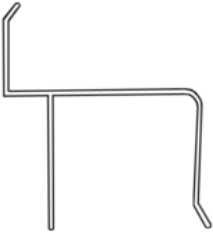
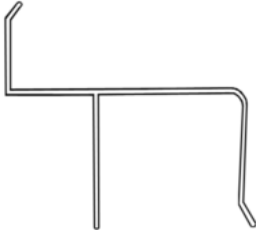
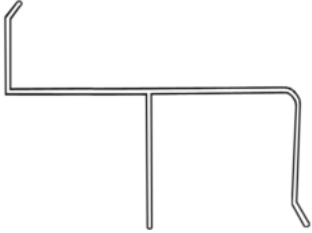


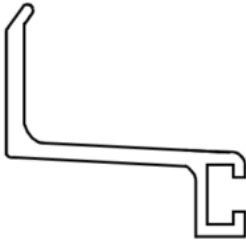
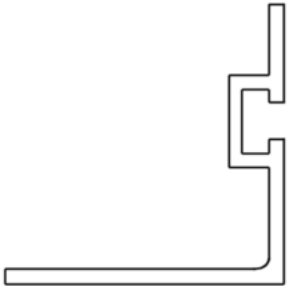
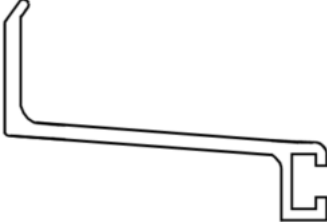
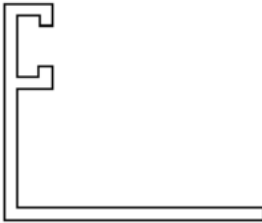
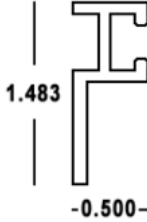
Additional Locations: West Palm Beach & Lakeland, FL; Newark, DE; Birmingham, AL and Akron, OH

website: www.easternmetal.com

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version: 10/11/17

2-1/4" X .075 BERTHA™ CODE APPROVED HEADERS & STUDLESS TRACKS

| | | |
|--|--|---|
| <p>BERTHA™ U-Header 2-1/4" x .075" x 19' <u>41-WH-510</u> White <u>41-MB-510</u> Bronze</p>  | <p>BERTHA™ H-Header 2-1/4" x .075" x 19' <u>41-WH-500</u> White <u>41-MB-500</u> Bronze</p> <p>Custom Lengths White (FL) <u>41-WH-39</u> x 39" <u>41-WH-51</u> x 51" <u>41-WH-63</u> x 63" <u>41-WH-75</u> x 75" <u>41-WH-87</u> x 87" <u>41-WH-99</u> x 99"</p>  | <p>1" Build-Out BERTHA™ Header 2-1/4" x .075" x 19' <u>41-WH-520</u> White <u>41-MB-520</u> Bronze</p>  |
| <p>2" Build-Out BERTHA™ Header 2-1/4" x .075" x 19' <u>41-WH-522</u> White</p>  | <p>3" Build-Out BERTHA™ Header 2-1/4" x .075" x 19' <u>41-WH-525</u> White</p>  | <p>BERTHA™ 1" Studless Track x 20' <u>40-WH-630</u> White <u>40-MB-630</u> Bronze</p>  |
| <p>BERTHA™ Studless Flat Track x 20' <u>40-63-615 (TX)</u> M/F <u>40-WH-615</u> White <u>40-MB-615</u> Bronze</p>  | <p>BERTHA™ 2" Studless Track x 20' <u>40-WH-632</u> White <u>40-MB-632</u> Bronze</p>  | <p>BERTHA™ Reverse "F" Track x 20' <u>40-WH-620</u> White</p>  |
| <p>BERTHA™ 3" Studless Track x 20' <u>40-WH-635</u> White</p>  | <p>BERTHA™ Studless Angle Track x 20' <u>40-WH-610</u> White <u>40-MB-610</u> Bronze</p>  | <p>BERTHA™ Stucco F-Track x 20' 1/2" MILL ORDER <u>52-63-5615</u></p>  |

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Hurricane 05



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version: 12/01/16

BERTHA™ STUDDED TRACKS

BERTHA™ Studded Angle

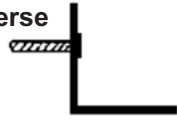
2 x 2 x .093 x 24' 3" 6" on center

| | | |
|------------------|----------------|-----------------|
| Standard: | Finish: | Reverse: |
| 11-MF-500 | M/F | N/A |
| 11-WH-500 | White | 11-WH-500RS |
| 11-MB-500 | Bronze | 11-MB-500RS |

Standard



Reverse



BERTHA™ Studded Angle

2 x 2 x .093 x 24' 3" 12" on center

| | |
|-----------------|-------|
| White; Standard | |
| 11-WH-39 | x 39" |
| 11-WH-51 | x 51" |
| 11-WH-63 | x 63" |
| 11-WH-75 | x 75" |
| 11-WH-87 | x 87" |
| 11-WH-99 | x 99" |

Standard



BERTHA™ Studded Angle

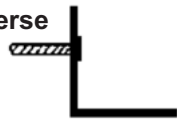
2 x 2 x .093 x 24' 3" 12" on center

| | | |
|------------------|----------------|---------------------------|
| Standard: | Finish: | Reverse: |
| N/A | M/F | SPECIAL ORDER 11-MF-510RS |
| 11-WH-510 | White | SPECIAL ORDER 11-WH-510RS |
| 11-MB-510 | Bronze | N/A |

Standard



Reverse



BERTHA™ Low Profile Studded Angle

1.75 x 5/8 x 24' 3"

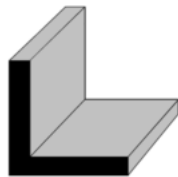
| | |
|---------------|-------|
| 6" on center | |
| 11-WH-455 | White |
| 12" on center | |
| 11-WH-460 | White |



BERTHA™ Standard Angle x 20'

2 x 2 x .093"

| | |
|----------------|--------|
| 51-63-544 (TX) | White |
| 51-63-543 | Bronze |
| 52-63-013 | Ivory |



BERTHA™ Snap Cap x 20' 3"

52-63-8292

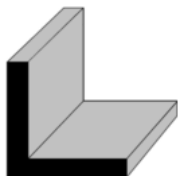


Mates with Studded Plate (below)

BERTHA™ Standard Angle x 20'

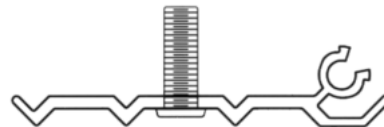
2 x 2 x 1/8"

| | |
|-----------|--------|
| 11-63-315 | M/F |
| 11-WH-376 | White |
| 11-MB-376 | Bronze |
| 11-IV-376 | Ivory |
| 11-BG-376 | Beige |



BERTHA™ Studded Plate x 20' 3"

| | |
|----------------------------|---------------|
| 52-63-8291 | non studded |
| 52-WH-8291 | 6" on center |
| MILL ORDER 52-WH-8295 (FL) | 12" on center |



Mates with Snap Cap (above)

Hurricane 06

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