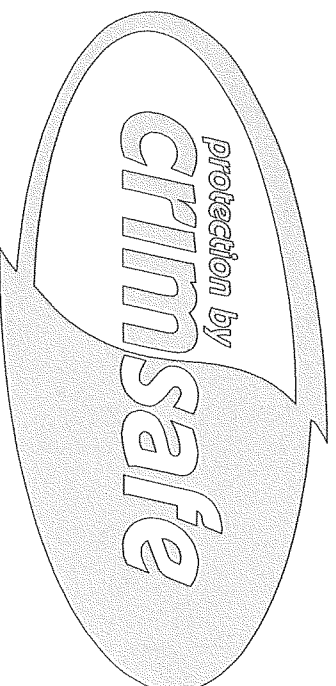


HINGED DOOR HURRICANE SCREEN

FLORIDA BUILDING CODE TESTING

BY



Crimsafe North America LLC
PO Box 2440 Eaton Park
FL 33840-2440
Phone: +1 863 510 0188
Fax: +1 863 665 0485

Handwritten signature and initials
#39712

HINGED DOOR HURRICANE SCREEN



Manufacturer:

Chimsale North America
 PO Box 2440 Eaton Park
 FL 33840-2440
 Phone: +1 883 510 0188
 Fax: +1 883 685 0485

Product:
**HINGED DOOR
 HURRICANE SCREEN**

Engineering:

[Handwritten signatures and initials]
 #29912

| Rev. | Date | Description |
|---------|------|--|
| 06/9/10 | | Making face mount drawing into one drawing together with the revised fit |
| 29/2/12 | | Changed wording on General notes 1. |
| 10/4/12 | | Added HNZ 3.25" and HNZ 2.25" |

Date: 24 Sep 2010
 Scale: NA
 Design by: CRIMS SAFE
 PRODUCT CONTROL DIVISION

Drawing Number
 MD-301-STD

Sheet

01 of 08

GENERAL NOTES :

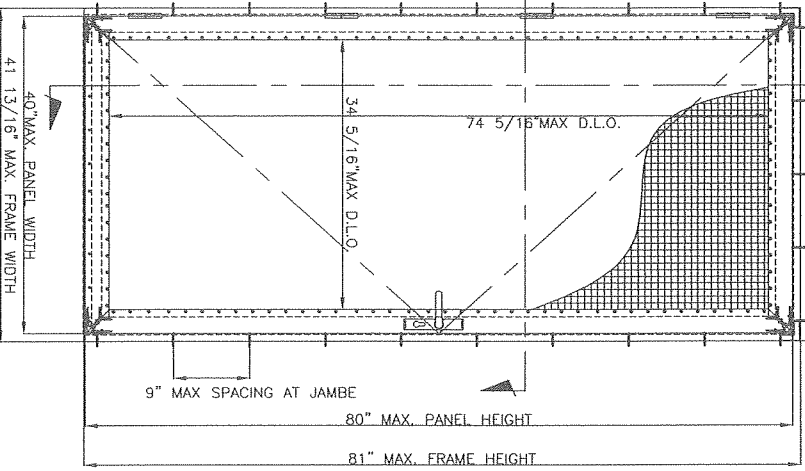
1. THE DOOR SCREEN SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE AND TEST PROTOCOLS TAS 201, 202 & 203. THIS SYSTEM MAY BE USED WITHIN THE HIGH VELOCITY HURRICANE ZONE (HNHZ) AS WELL AS THROUGHOUT THE STATE OF FLORIDA.
2. POSITIVE AND NEGATIVE DESIGN PRESSURES SHALL BE CALCULATED IN ACCORDANCE WITH THE GOVERNING CODE.
3. INSTALLATION OF ALL UNITS SHALL ALLOW FOR RESPECTIVE MINIMUM SEPARATION FROM GLAZING AS NOTED ON THIS PAGE. REF SECTION DETAILS FOR DESCRIPTION OF THIS DISTANCE.
4. MULTIPLE UNITS SHALL BE INSTALLED USING APPROVED ALUMINUM STRUCTURAL FRAME OF ALLOY 6063-T5(MIN). FRAME SHALL MEET ALL APPLICABLE IMPACT & WINDLOAD CRITERIA, AND SHALL BE INSTALLED PER RESPECTIVE PRODUCT APPROVAL DOCUMENTATION.
5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
7. PERIMETER SQUARE TUBE MAY BE ANCHORED TO VERTICAL FACET("FACE MOUNT") OF HOST STRUCTURE.
8. SYSTEM MAY BE INSTALLED VERTICALLY OR HORIZONTALLY (AS SHOWN IN THIS PAGE).

SYSTEM NOTES :

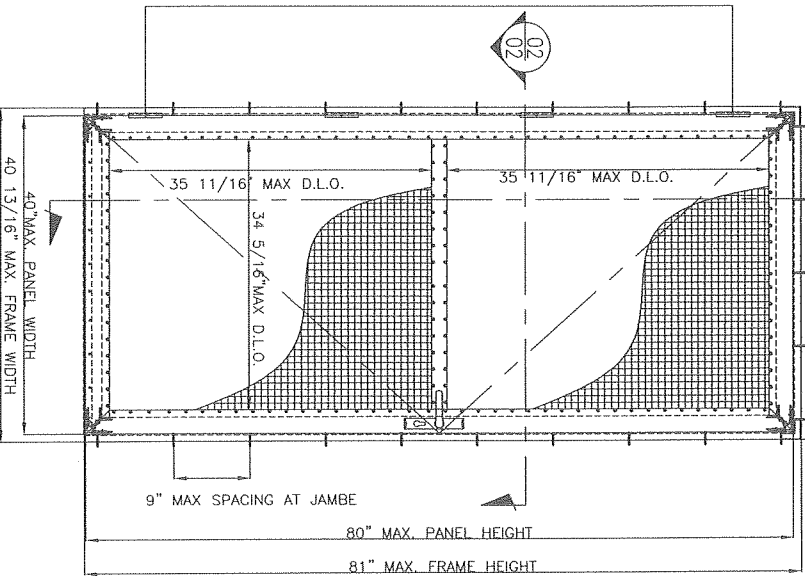
1. FRAME & PANEL CONSTRUCTION: EXTRUDED ALUMINUM FRAME CORNERS ARE MITERED, AND SCREWED.
2. FRAME DOES CONTAIN MULTI POINT LOCK HARDWARE.
3. MESH CONSTRUCTION: STAINLESS STEEL. GRADE MESH IS MADE UP OF 304 "HIGH TENSILE" STAINLESS STEEL, WITH ϕ 0.035" STRANDS ARRANGED 10 STRANDS BY 10 STRANDS PER SQUARE INCH. THE MESH INFORMATION IS DESCRIBED IN SHEET 5.
4. THE MESH IS ATTACHED ONTO THE MAIN FRAME BY A REMOVABLE ALUMINUM CLAMP WITH TAMPER RESISTANT SECURITY HEAD SCREW.

ALL DIMENSION IN INCHES

**MAXIMUM ALLOWABLE
 DESIGN PRESSURES:**
 +50.0 PSF
 -50.0 PSF
 MIN SEPARATION FROM GLAZING:
 HNZ 3.25"
 non HNZ 2.25"

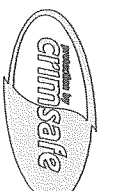


01 SCALE
 TYPICAL ELEVATION
 EXTER ELEV



01 SCALE
 TYPICAL ELEVATION WITH MIDRAIL
 EXTER ELEV

HINGED DOOR HURRICANE SCREEN



Manufacturer:

Crimsafe North America
 PO Box 2440 Eaton Park
 FL 33840-2440
 Phone: +1 863 510 0188
 Fax: +1 863 665 0485

Product:
**HINGED DOOR
 HURRICANE SCREEN**

Engineering:

Handwritten signatures and dates:
 29/8/10
 29/12/12
 10/4/12
 #29712

| Rev | Description |
|----------|--|
| 29/8/10 | Making face mount drawing into one drawn together with the mesh fit. |
| 29/12/12 | Changed wording on General notes 1. |
| 10/4/12 | Added HNZ 3.25, non HNZ 2.25 |

Date: 24 Sep 2010
 Scale: NA
 Design by: CRIMSAFETM
 PRODUCT CONTROL DIVISION

Drawing Number
 MD-301-STD

Sheet
 02 of 08

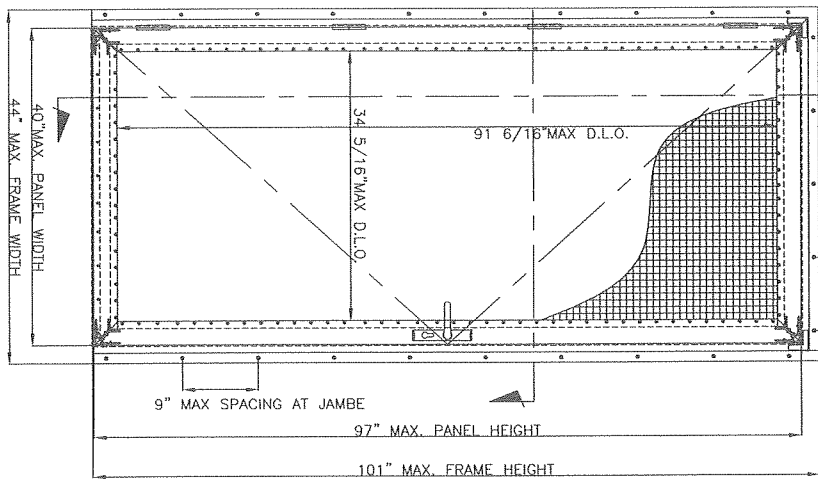
GENERAL NOTES :

1. THE DOOR SCREEN SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN COMPLIANCE WITH THE 2010 FLORIDA BUILDING CODE AND TEST PROTOCOLS TMS 2011, 202 & 203. THIS SYSTEM MAY BE USED WITHIN THE HIGH VELOCITY HURRICANE ZONE (HNHZ) AS WELL AS THROUGHOUT THE STATE OF FLORIDA
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5. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A PROFESSIONAL ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS.
6. PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
7. PERIMETER SQUARE TUBE MAY BE ANCHORED TO VERTICAL FACE("FACE MOUNT") OF HOIST STRUCTURE.
8. SYSTEM MAY BE INSTALLED VERTICALLY OR HORIZONTALLY (AS SHOWN IN THIS PAGE).

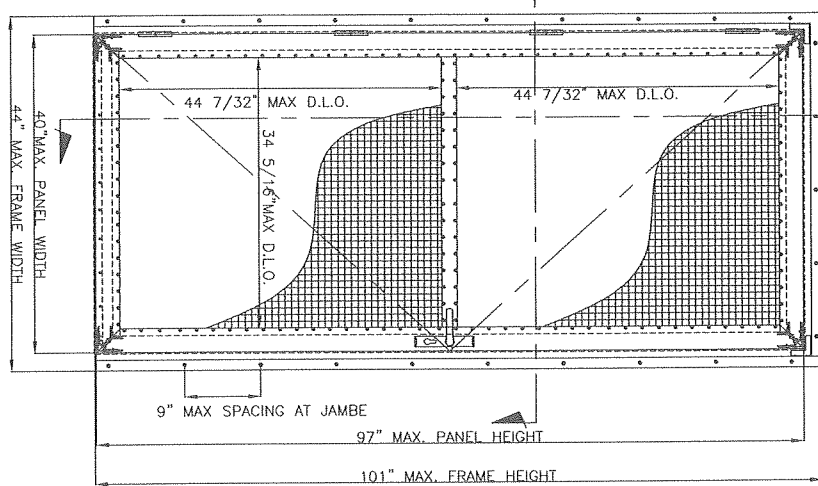
SYSTEM NOTES :

1. FRAME & PANEL CONSTRUCTION: EXTRUDED ALUMINUM FRAME CORNERS ARE MITERED, AND SCREENED.
2. FRAME DOGS CONTAIN MULTI POINT LOCK HARDWARE.
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MAXIMUM ALLOWABLE DESIGN PRESSURES:
 +50.0 PSF
 -50.0 PSF
 MIN SEPARATION FROM GLAZING:
 HNHZ 3.25"
 non HNHZ 2.25"

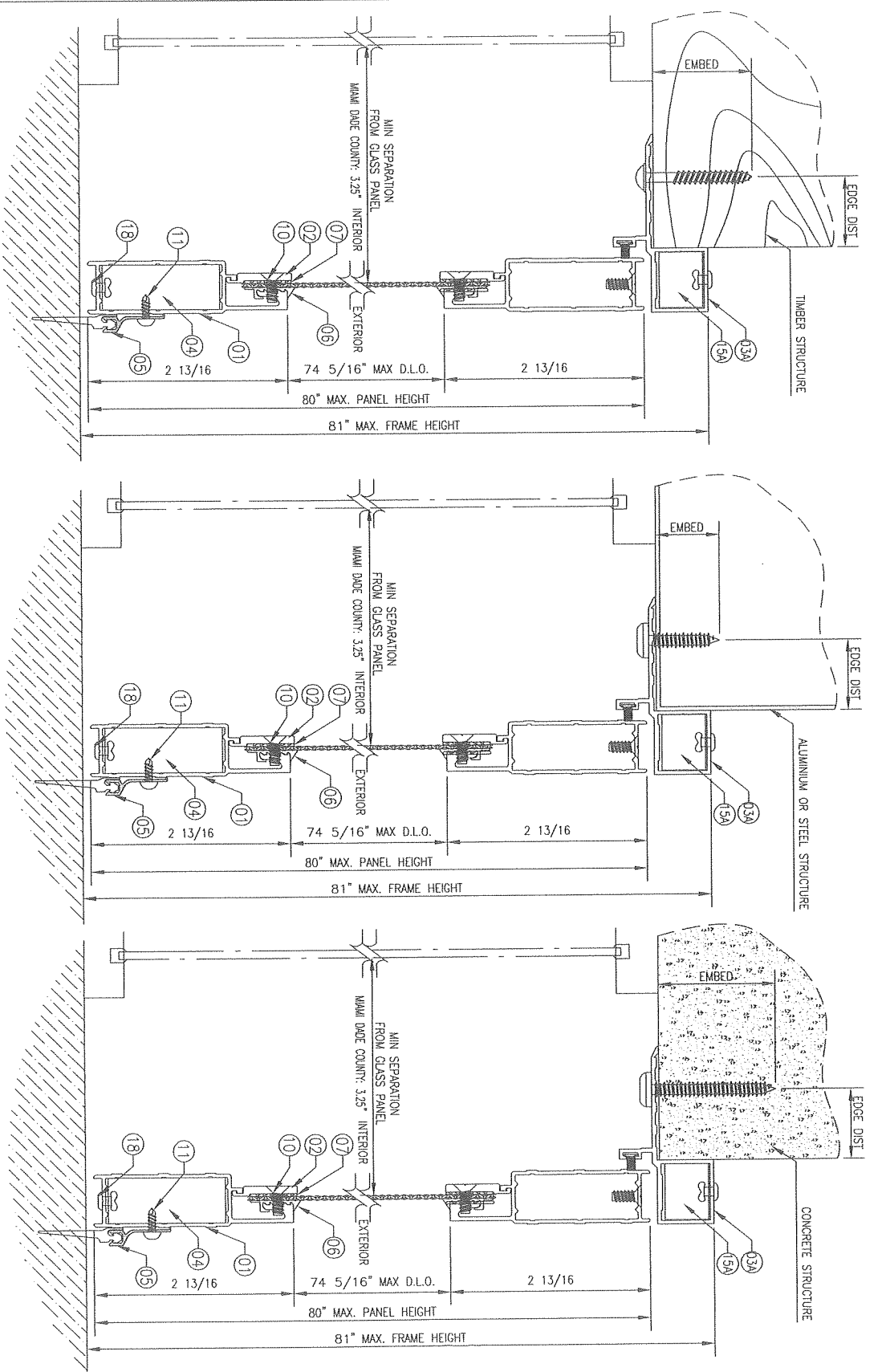


01 SCALE
 TYPICAL ELEVATION
 EXTER ELEV



01 SCALE
 TYPICAL ELEVATION WITH MIDRAIL
 EXTER ELEV

ALL DIMENSION IN INCHES



ATTACHMENT TO WOOD

ATTACHMENT TO ALUMINIUM OR STEEL

ATTACHMENT TO HOLLOW BLOCK OR CONCRETE

ANCHOR TABLE:

| TYPE | STRUCTURE | MIN EMBD. |
|------------------------------------|---|-----------|
| 3/16" | CONCRETE OR HOLLOW BLOCK WITH MIN EDGE DISTANCE 2" WITH SCREW SPACING TO 9" | 1 3/8" |
| #10 SELF TAPPING SHEET METAL SCREW | ALUMINIUM OR STEEL BLOCK WITH MIN EDGE DISTANCE 1/2" WITH SCREW SPACING TO 9" | 1/8" |
| #10 | WOOD /TIMBER WITH MIN EDGE DISTANCE 1/2" WITH SCREW SPACING TO 9" | 1 3/8" |

NOTE: INSULATION SHOWN IS FOR WOOD FRAME CONCRETE, CHU AND ALUMINUM, STEEL TUBE AS SIMILAR

ALL DIMENSION IN INCHES

Manufacturer:



Crimsafe North America
 PO Box 2440 Eaton Park
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 Phone: +1 863 510 0188
 Fax: +1 863 665 0485

Product:
HINGED DOOR HURRICANE SCREEN

Engineering:

Handwritten signatures and initials

| Rev. | Rev. Description |
|---------|--|
| 26/9/10 | Adding face mount drawing into one drawing together with the revised fit |
| 10/4/12 | Changed some notes on anchor table |

Date: 24 Sep 2010
 Scale: NA
 Design by: CRIMSsafe

PRODUCT CONTROL DIVISION

Drawing Number
 MD-301-STD

Sheet
 03 of 08

01 VERTICAL CROSS SECTION
 02 SIDE HURRICANE STANDARD DOOR

Manufacturer:



Crimsafe North America
 PO Box 2440 Eaton Park
 FL 33840-2440
 Phone: +1 863 510 0188
 Fax: +1 863 685 0485

Product:
**HINGED DOOR
 HURRICANE SCREEN**

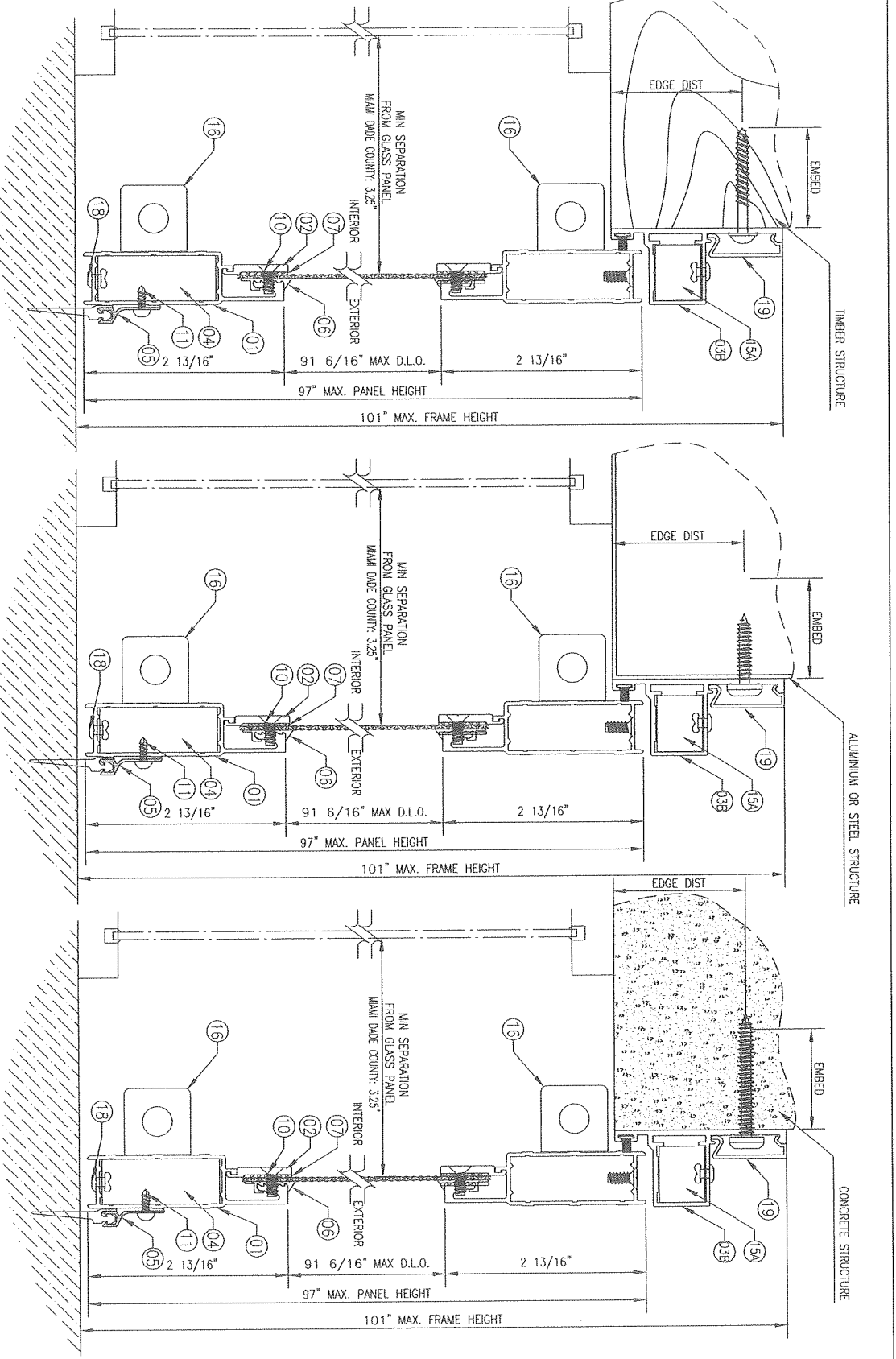
Engineering:

Ed [Signature]
Stef [Signature]
 #39712

| Rev | Rev. Description |
|---------|--|
| 26/6/10 | Adding face mount, drawing into one drawing together with the reveal fit |
| 10/4/12 | Changed some notes on Anchor table |

Date: 30 June 2010
 Scale: NA
 Design by: CRIMSAFE

PRODUCT CONTROL DIVISION



ATTACHMENT TO WOOD

ATTACHMENT TO ALUMINIUM OR STEEL

ATTACHMENT TO HOLLOW BLOCK OR CONCRETE

ANCHOR TABLE:

| TYPE | STRUCTURE | MIN EMBD. |
|------------------------------------|---|-----------|
| 3/16" | CONCRETE OR HOLLOW BLOCK WITH MIN EDGE DISTANCE 2" WITH SCREW SPACING TO 9" | 1 3/8" |
| #10 SELF TAPPING SHEET METAL SCREW | ALUMINIUM OR STEEL BLOCK WITH MIN EDGE DISTANCE 1/2" WITH SCREW SPACING TO 9" | 1/8" |
| #10 | WOOD /TIMBER WITH MIN EDGE DISTANCE 1/2" WITH SCREW SPACING TO 9" | 1 3/8" |

01 VERTICAL CROSS SECTION
 02 SIDE HURRICANE STANDARD DOOR

NOTE: INSTALLATION SHOWN IS FOR WOOD FRAME CONCRETE CMU AND ALUMINIUM STEEL TUBE AS SHOWN

ALL DIMENSION IN INCHES

Drawing Number
 MD-301-STD

Sheet
 04 of 08

Manufacturer:



Crimsafe North America
 PO Box 2440 Eaton Park
 FL 33840-2440
 Phone: +1 883 510 0188
 Fax: +1 883 665 0485

Product:
**HINGED DOOR
 HURRICANE SCREEN**

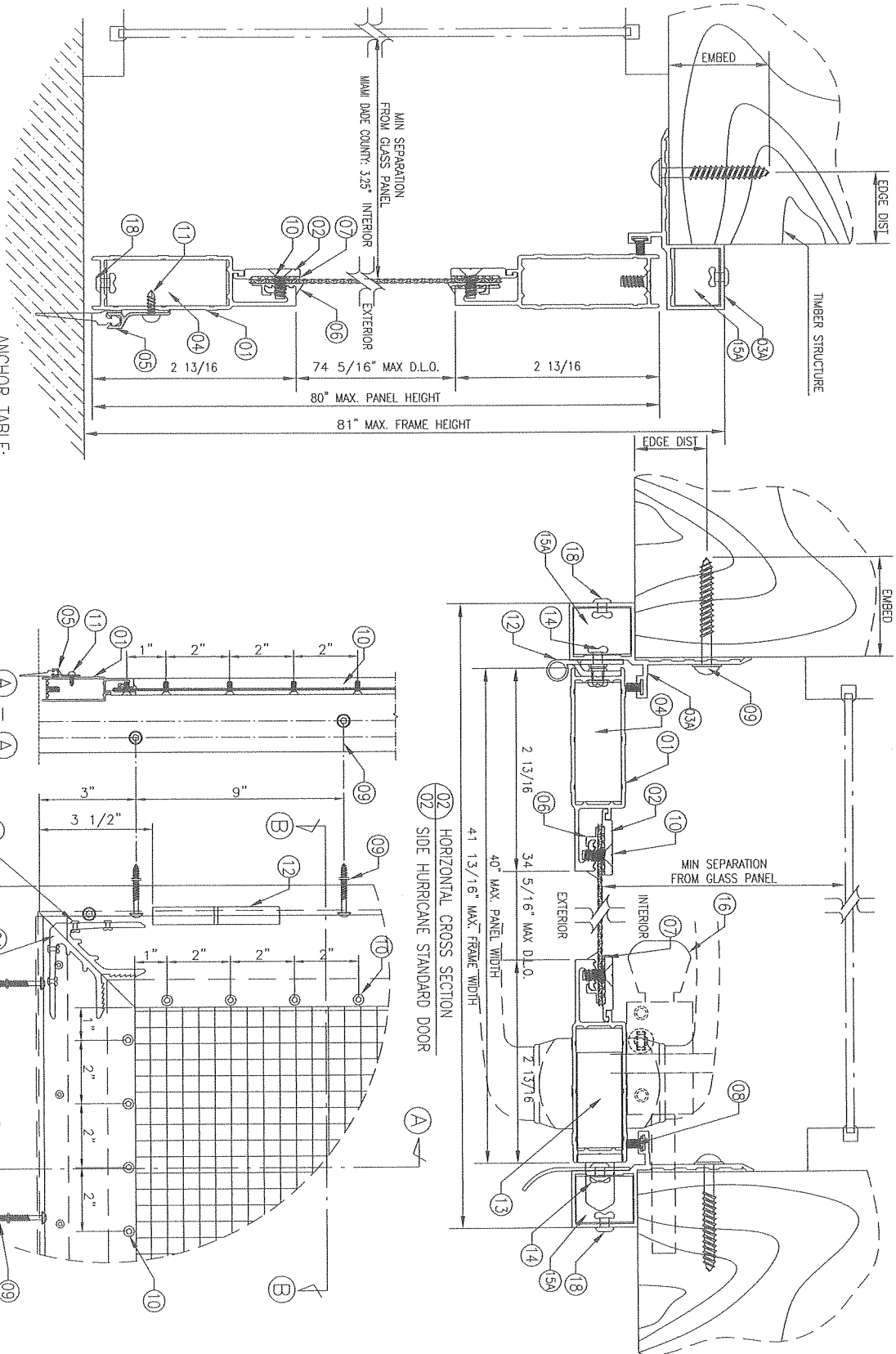
Engineering:

Rev. Description
 25/6/01 Adding top mount drawing into one drawing together with the revised fit
 10/4/02 Changed some notes on anchor table

Date: 24 Sep 2010
 Scale: NA
 Design by: CRIMSsafe
 PRODUCT CONTROL DIVISION

Drawing Number
 MD-301-STD

Sheet
 05 of 08



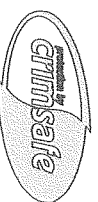
ANCHOR TABLE:

| TYPE | STRUCTURE | MIN. EMBD. |
|------------------------------------|---|------------|
| 3/16" | CONCRETE OR ROLLOW BLOCK WITH MIN. EDGE DISTANCE 2" WITH SCREW SPACING TO 9" | 1 3/8" |
| #10 SELF TAPPING SHEET METAL SCREW | ALUMINUM OR STEEL BLOCK WITH MIN. EDGE DISTANCE 1/2" WITH SCREW SPACING TO 9" | 1/8" |
| #10 | WOOD /TIMBER WITH MIN. EDGE DISTANCE 1/2" WITH SCREW SPACING TO 9" | 1 3/8" |

NOTE: INSULATION SHOWN IS FOR WOOD FRAME CONCRETE, CMU AND ALUMINUM, STEEL TUBE AS SIMILAR

ALL DIMENSION IN INCHES

Manufacturer:



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Product:
**HINGED DOOR
 HURRICANE SCREEN**

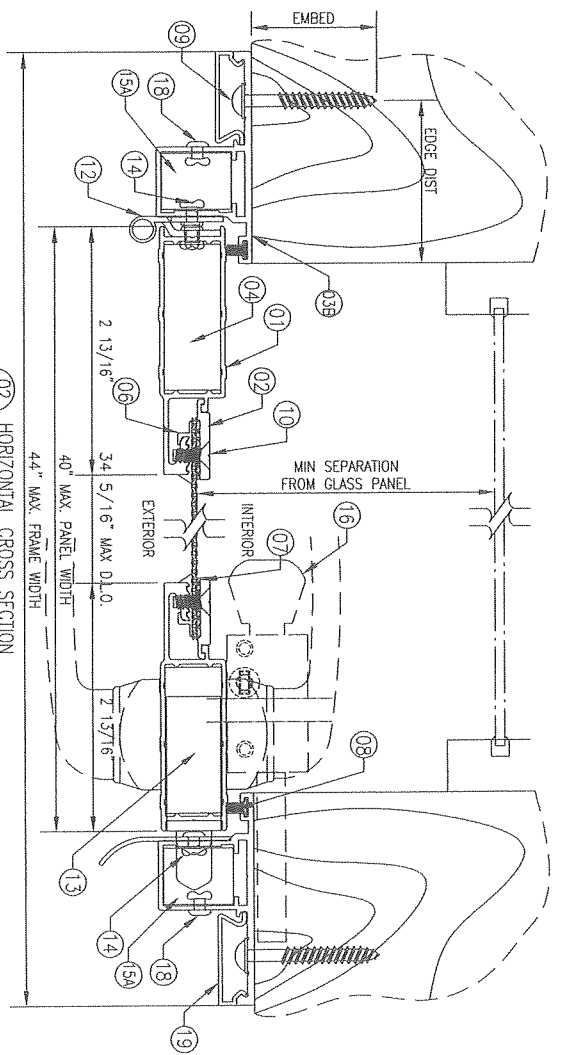
Engineering:

Rev. Description
 25/01/10 Adding face mount, drawing into one drawing, together with the revised fit
 10/04/12 Changed some valve on anchor table
039712
SLC/12
PLD/12

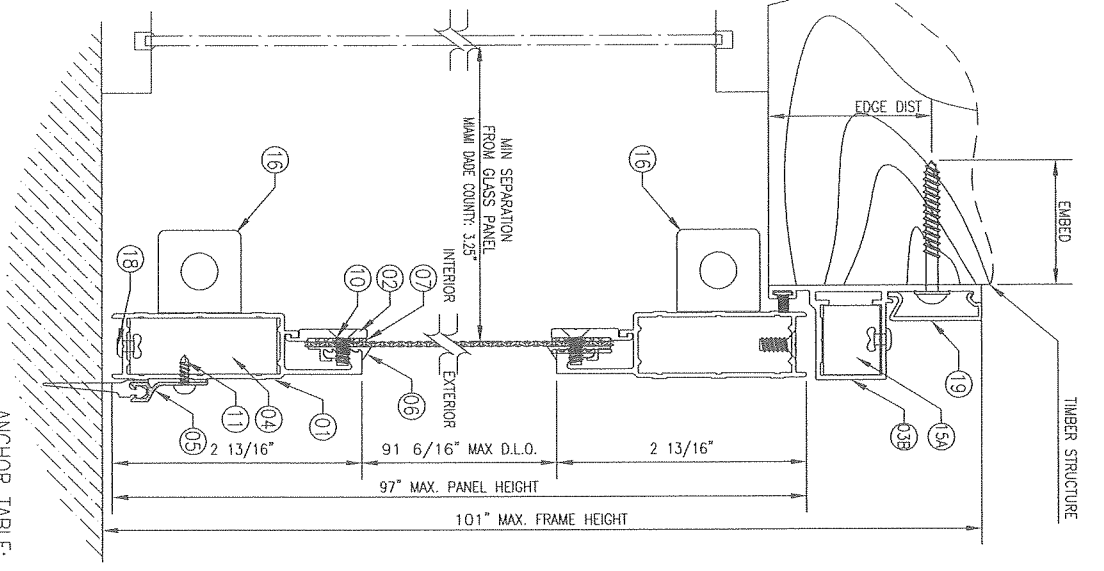
Date: 24 Sep 2010
 Scale: NA
 Design by: CRIMSsafe
 PRODUCT CONTROL DIVISION

Drawing Number
 MD-301-STD

Sheet
 06 of 08



02 HORIZONTAL CROSS SECTION
 SIDE HURRICANE STANDARD DOOR

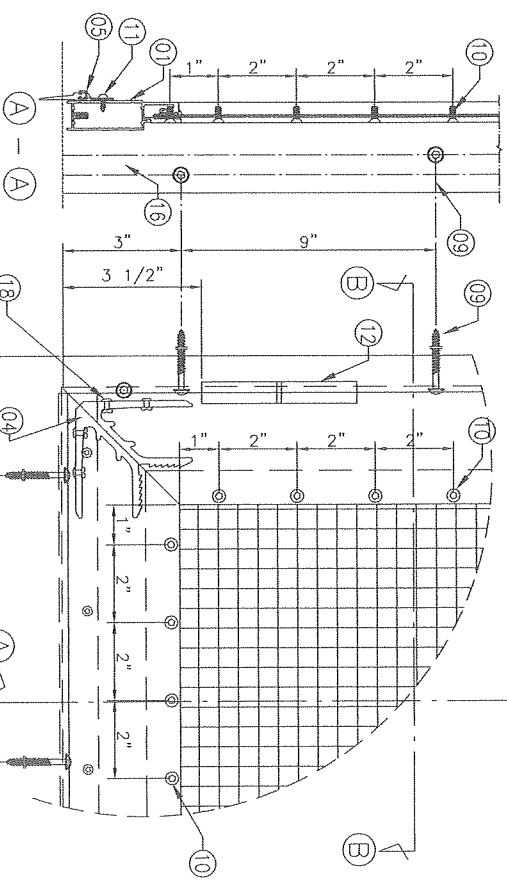


01 VERTICAL CROSS SECTION
 02 SIDE HURRICANE STANDARD DOOR

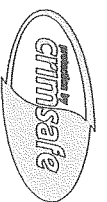
ANCHOR TABLE:

| TYPE | STRUCTURE | MIN. EMBD. |
|-------------------------------------|---|------------|
| 3/16" | CONCRETE OR HOLLOW BLOCK WITH MIN. EDGE DISTANCE 2". WITH SCREWS SPACING TO 9" | 1 3/8" |
| #10 SELF TAPPING SHEET METAL SCREWS | ALUMINUM OR STEEL BLOCK WITH MIN. EDGE DISTANCE 1/2". WITH SCREWS SPACING TO 9" | 1/8" |
| #10 | WOOD /TIMBER WITH MIN. EDGE DISTANCE 1/2". WITH SCREWS SPACING TO 9" | 1 3/8" |

NOTE: INSTALLATION SHOWN IS FOR WOOD FRAME CONCRETE, CMU AND ALUMINUM, STEEL TIE AS SIMILAR



ALL DIMENSION IN INCHES

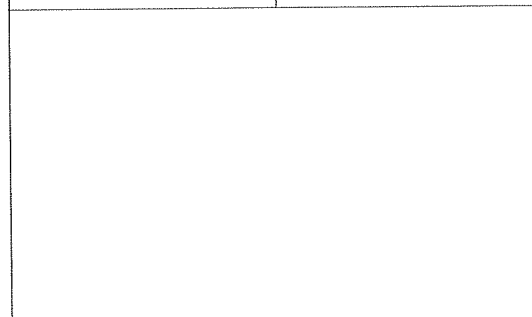
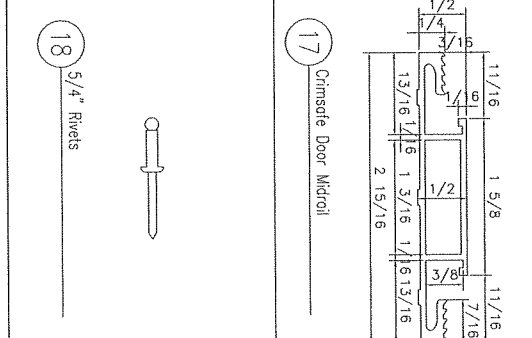
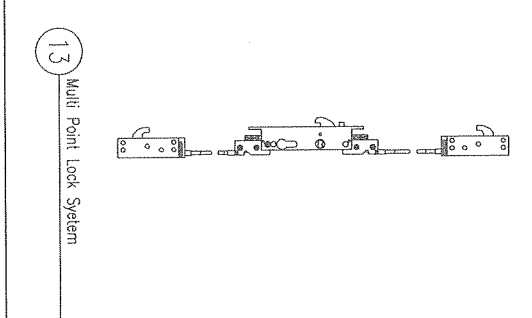
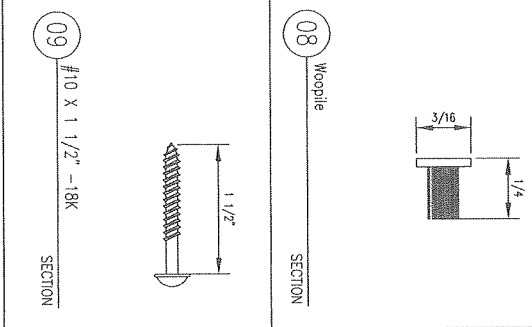
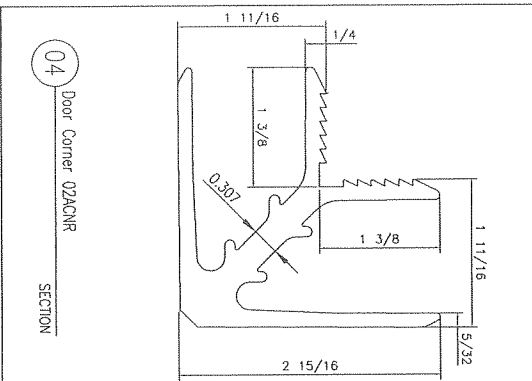
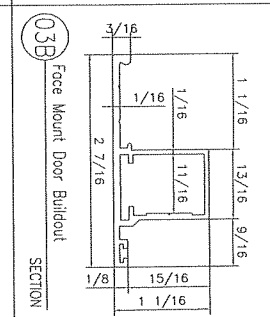
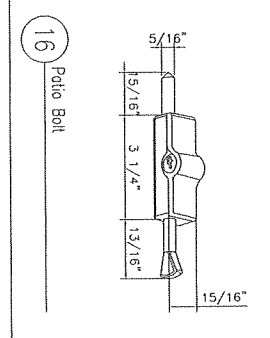
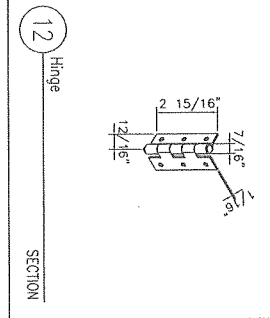
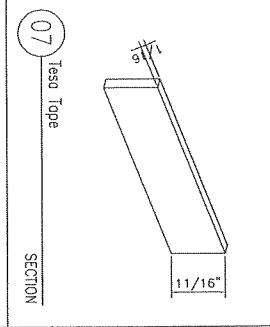
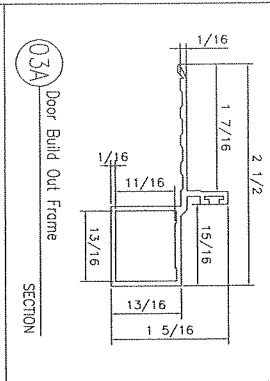
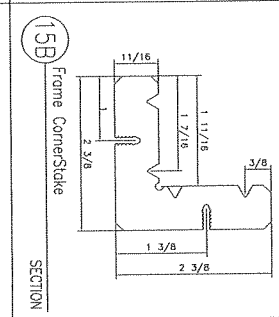
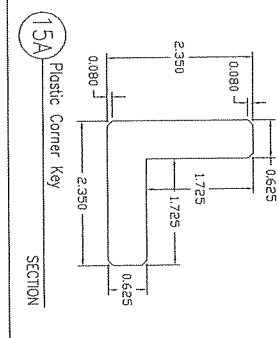
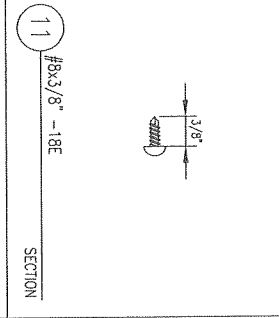
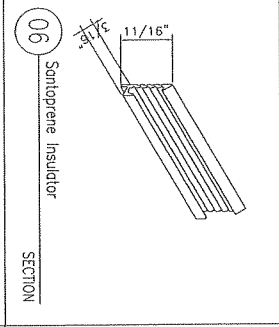
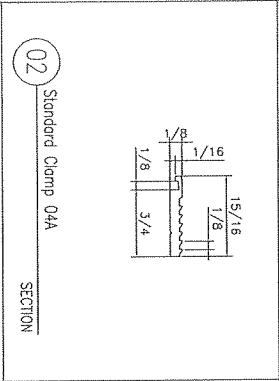
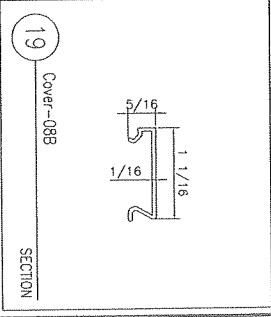
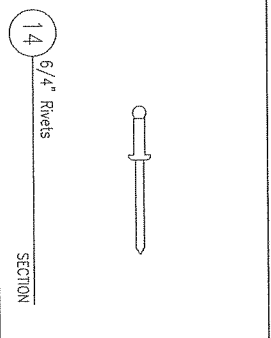
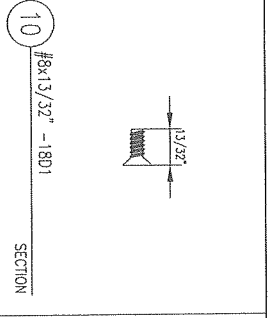
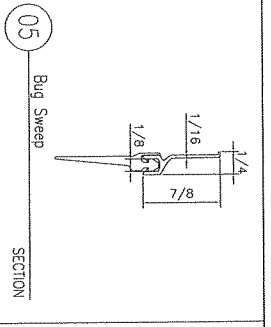
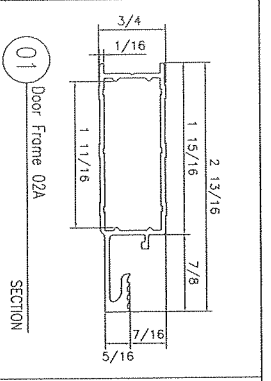


Manufacturer:
 Crimsafe North America
 PO Box 2440 Eaton Park
 FL 33840-2440
 Phone: +1 865 510 0188
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Product:
**HINGED DOOR
 HURRICANE SCREEN**

Engineering:

Rev. Description
 26/8/08 Adding face mount drawing into one drawing together with the reveal R.
Handwritten signatures and initials

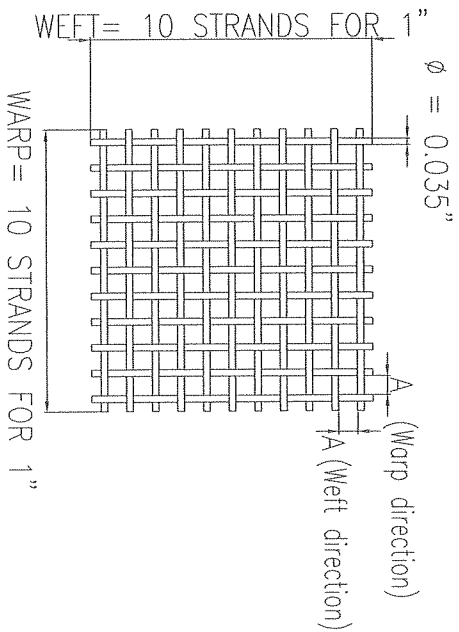


BILL OF MATERIAL

| ITEM | DESCRIPTION | MATERIAL | QTY |
|------|--------------------------------|-----------------|-----|
| 01 | Door Frame 02A | 6063-T5 | 4 |
| 02 | Standard Clamp 04A | 6063-T5 | 6 |
| 03A | Door Build Out Frame | 6063-T5 | 3 |
| 03B | Face Mount Door Buildout | 6063-T5 | 3 |
| 04 | Door Corner 02ACNR | 6063-T5 | 4 |
| 05 | Crimsafe Bug Seal and Retainer | 6063-T5 | 1 |
| 06 | Santoprene Insulator | Santoprene | 4 |
| 07 | Tesa Tape | - | 4 |
| 08 | Woodplie | - | 4 |
| 09 | #10 X 1 1/2" -18K | Stainless Steel | 30 |
| 10 | #8x13/32" -1801 | Stainless Steel | 270 |
| 11 | #8x3/8" -18E | Stainless Steel | 11 |
| 12 | Hinge | Steel | 4 |
| 13 | Multi Point Lock System | Steel | 1 |
| 14 | 6/4" Rivets | Stainless Steel | 27 |
| 15A | Plastic Corner Key | Plastic | 2 |
| 15B | Frame CornerStake | 6063-T5 | 2 |
| 16 | Patio Bolt | Steel | 2 |
| 17 | Crimsafe Door Midrail | 6063-T5 | 1 |
| 18 | 5/4" Rivets | Stainless Steel | 32 |
| 19 | Cover-08B | 6063-T5 | 3 |

ANCHOR NOTES:

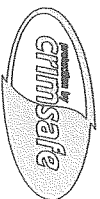
1. ALLOWABLE ANCHORS SHALL BE AS LISTED IN APPROPRIATE ANCHOR SCHEDULE AND SPACED SHOWN ON SHEET 1 ELEVATIONS.
2. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. MINIMUM EMBEDMENT DEPTHS AND EDGE DISTANCES SHALL APPLY AS NOTED IN APPROPRIATE ANCHOR SCHEDULE.
3. SYSTEM MAY BE INSTALLED TO CONCRETE, HOLLOW BLOCK, WOOD, STEEL OR AN APPROVED IMPACT RESISTANT ALUMINUM FRAME OF ALLOY 6063-T5 (MIN). FRAME SHALL BE INSTALLED PER RESPECTIVE APPROVAL DOCUMENTATION.
4. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY, FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD.
5. WHERE WOOD SCREENS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL (MIN) WOOD STUD (19mm. EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING), AND SHALL PENETRATE 1.5" MIN WOOD STUD SHALL BE "SOUTHERN PINE" 0-0.55 OR GREATER DENSITY. WOOD SCREW SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
6. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHS.
7. ALL SCREW TO ALUMINUM SHALL BE INSTALLED WITH FULL THREAD PENETRATION AND MINIMUM 0.5" EDGE DISTANCE TO APPROVED 6063-T5 (MIN) ALUMINUM FRAME (0.125" MIN THICKNESS).



SCREEN INFORMATION

ALL DIMENSION IN INCHES

Manufacturer:



Crimsafe North America
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 FL 33840-2440
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 Fax: +1 863 665 0485

Product:
**HINGED DOOR
 HURRICANE SCREEN**

Engineering:

[Handwritten signatures and initials]

Rev. Description
 26/0/10 Adding face mount drawing into one drawing together with the reveal R

Date: 30 June 2010
 Scale: NA
 Design by: CRIMS SAFE
 PRODUCT CONTROL DIVISION

Drawing Number
 MD-301-STD

Sheet
 08 of 08