# BAHAMA DECORATIVE SHUTTER MASTER PLAN

(NON-STRUCTURAL, DECORATIVE ORNAMENT, TYPICAL INSTALLATION (WITHIN & OUTSIDE OF THE HVHZ ZONE)

VALID AS A GENERIC SEALED MASTER PLAN FOR SHUTTER INSTALLATION ONLY AS DESCRIBED HEREIN AT (1) LOCATION. SITE SPECIFIC/ADDITIONAL ENGINEERING REQUIRED THEREAFTER.

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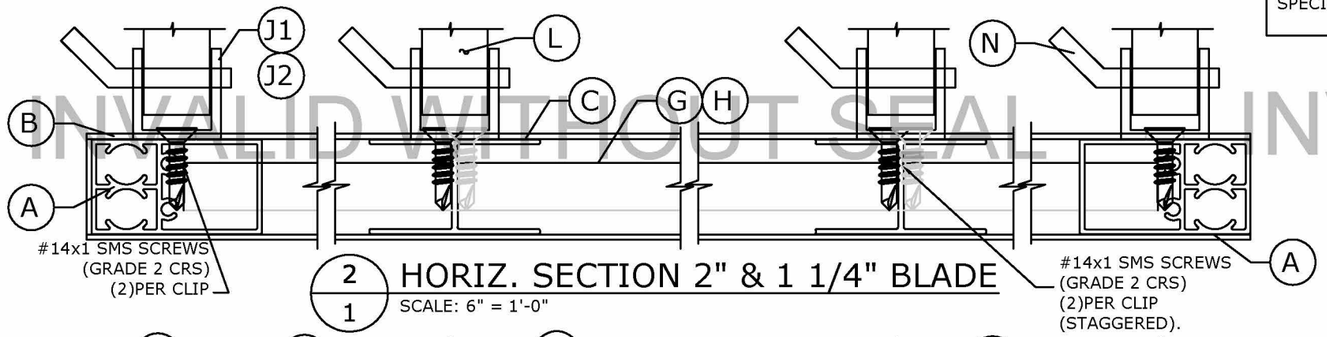
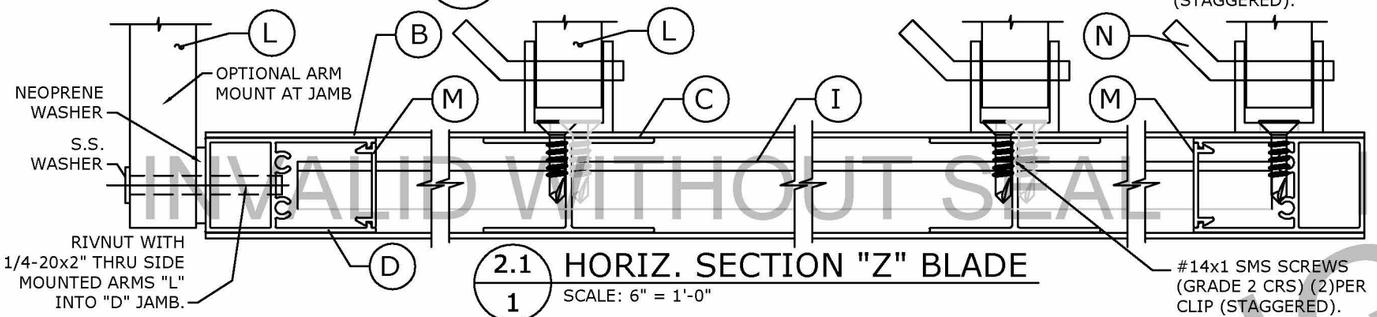
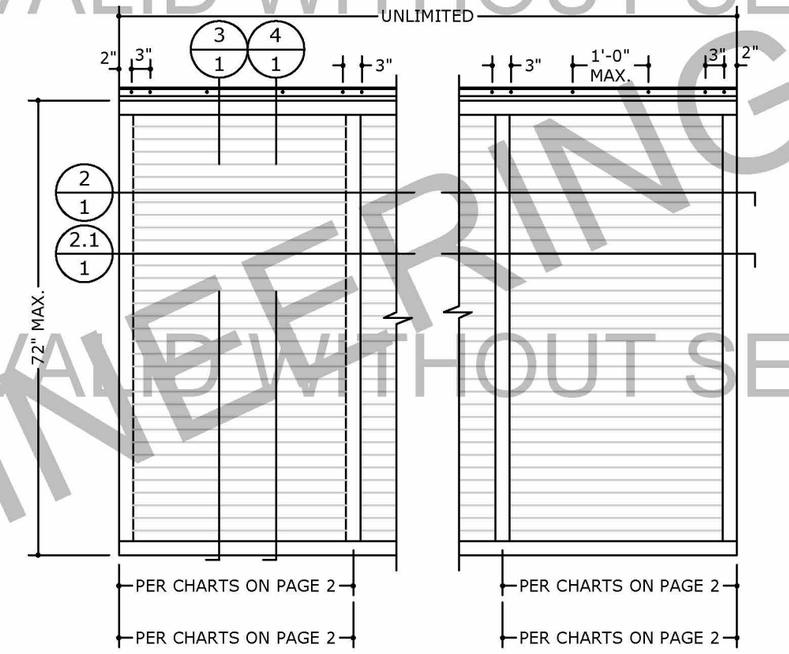


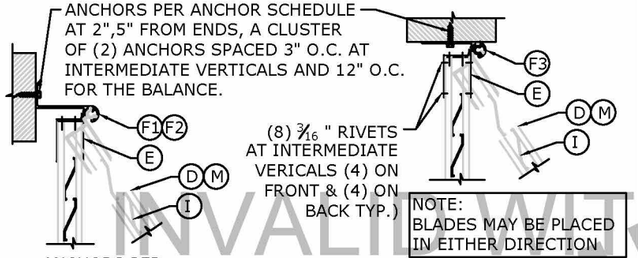

2/1 HORIZ. SECTION 2" & 1 1/4" BLADE
SCALE: 6" = 1'-0"




2.1/1 HORIZ. SECTION "Z" BLADE
SCALE: 6" = 1'-0"

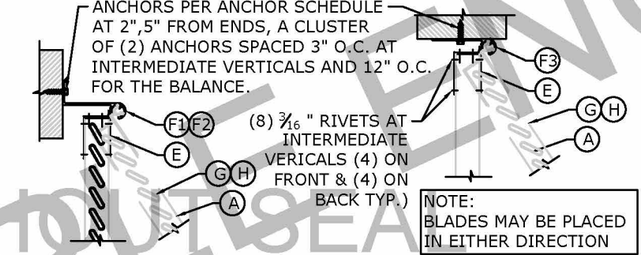



1/1 TYP. ELEVATION
SCALE: 1/2" = 1'-0"




3/1 "Z" BLADE VERTICAL SECTIONS

NOTE (TYP.):
1. MAX. TUBE SPACING = 36" O.C.
2. MAX. TUBE LENGHT = 36" O.C.




NOTE (TYP.):
RIVNUT WITH 1/4-20 x 2" INTO SIDE OF JAMB MAY BE SUBSTITUTED WITH 36" MAX. WIDTH BAHAMA IN LIEU OF "N" WITH "J1" OR "J2".

4/1 "Z" BLADE VERTICAL SECTIONS

**NOTE: NOT RATED FOR IMPACT**

**THIS PRODUCT IS NOT APPROVED AS A LARGE MISSILE IMPACT PROTECTION SYSTEM AND MUST BE REMOVED DURING PERIODS OF HURRICANE WARNING.**

EITHER OF THESE CONDITIONS MUST BE MET FOR USE:
1) THE SUBSTRATE BEHIND THE PRODUCT IS NOT GLASS
2) IF THE SUBSTRATE IS GLASS THE GLAZING SHALL BE IMPACT RATED
3) OR THE INSTALLATION OVER GLASS CANNOT BE IN A LARGE MISSILE IMPACT DEBRIS REGION. IF THIS PRODUCT IS INSTALLED OVER NON-IMPACT GLASS IN A LARGE / SMALL MISSILE IMPACT DEBRIS REGION, AN APPROVED IMPACT PROTECTION SYSTEM SHALL BE REQUIRED (BY OTHERS) OVER THE ENTIRE PRODUCT.

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## GENERAL NOTES:

1. THIS SYSTEM HAS BEEN DESIGNED AND SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 7TH EDITION (2020). ALSO APPLICABLE FOR THE FBC 6TH EDITION (2017), IBC/IRC (2015 & 2018), AS WELL AS CURRENT VERSIONS OF THE MN, NC, NJ, NY, OH, SC, & VA BUILDING CODES AS APPLICABLE. CODE ENFORCED COMPLIES WITH STATE OF SEAL AND IF MULTIPLE VERSIONS ARE LISTED THEN MOST STRINGENT APPLIES. DESIGN SHALL UTILIZE ASD DESIGN METHOD USING ASCE 7-16 OR ASCE 7-10 CODES FOR SITE SPECIFIC APPLICATIONS AS APPLICABLE.
2. FOR USE WITHIN & OUTSIDE THE HIGH VELOCITY HURRICANE ZONE (HVHZ). USE IS LIMITED TO THE ALLOWABLE DESIGN PRESSURES NOTED IN THIS DOCUMENT AND IS NOT TO BE USED AS AN APPROVED IMPACT PROTECTION DEVICE.

### MAXIMUM DESIGN PRESSURES:
### AS NOTED IN SCHEDULES HEREIN

3. SITE SPECIFIC DESIGN PRESSURES FOR USE WITH THIS PLAN SHALL MEET OR NOT EXCEED THE MAXIMUM DESIGN PRESSURE RATINGS HEREIN. THEY ARE TO BE OBTAINED BY OTHERS OR BY SEPARATE CERTIFICATION BY USE OF EITHER SITE SPECIFIC ENGINEERING OR SEALED WIND PRESSURE / LOAD COMBINATION CHARTS APPLICABLE TO THE LOCATION AND BUILDING THE PRODUCT IS APPLIED TO.
4. WARNING LABEL: THIS SHUTTER SYSTEM MUST BE PROVIDED WITH A WARNING LABEL, PERMANENTLY PLACED, STATING THE FOLLOWING: THIS PRODUCT IS NOT DESIGNED TO PROVIDE IMPACT RESISTANCE.
5. FASTENERS: DEWALT ULTRACON ¼" / ITW TO BE ATTACHED TO CONCRETE OR WOOD. FOR EDGE DISTANCES AND EMBEDMENT LENGTHS REFER TO ANCHOR SCHEDULE.
6. ALL ALUMINUM SHALL BE 6063-T6 ALLOY & TEMPER.
7. FASTENERS SHALL BE WEATHER RESISTANT AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
8. THIS DESIGN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. IF SITE CONDITIONS DEVIATE FROM THE CONDITIONS DETAILED HEREIN, A SITE SPECIFIC DESIGN PREPARED BY THIS PROFESSIONAL ENGINEER SHAL BE REQUIRED.
9. THE CONTRACTOR OR PERMIT HOLDER IS RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS SYSTEM, INCLUDING VERIFYING THE ADEQUACY OF THE EXISTING STRUCTURE WHERE THE SYSTEM IS TO BE ATTACHED TO INSURE PROPER ANCHORAGE.
10. THIS DOCUMENT SHALL BEAR THE DATE AND ORIGINAL EMBOSED SEAL OF THE PROFESSIONAL ENGINEER OF RECORD WHO PREPARED IT.
11. ENGINEER SEAL AFFIXED HERETO VALIDATESTHE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COSTS & DAMAGES INCLUDING LEGAL FEES & APPELLATE FEES RESULTING FROM DEVIATIONS FROM THIS PLAN.
12. ANY MODIFICATIONS OR ADDITIONS TO THIS DOCUMENT WILL INVALIDATE ENGINEER'S CERTIFICATION. EXCEPT AS PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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DECORATIVE BAHAMA SHUTTER
SYSTEM MASTER PLAN
FBC 7TH ED (2020) & IBC (2018)

| REMARKS | DRWN | CHKD | DATE |
|---|---|---|---|
| INIT ISSUE | JMP | FLB | 2/19/18 |
| 2020 FBC | COB | FLB | 5/17/21 |
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## NGLE SPAN SHUTTER - ASD LATERAL (WIND) LOADNG CAPACITY (PSF)

| FOR BLADE TYPE "I" | | |
|---|---|---|
| PANEL WIDTH | PANEL HEIGHT | + / - P.S.F |
| 15" | 24" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 15" | 30" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 15" | 36" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 118 |
| 15" | 42" | 120 |
| 18" | | 116 |
| 21" | | 99 |
| 24" | | 87 |
| 15" | 48" | 106 |
| 18" | | 88 |
| 21" | | 76 |
| 24" | | 66 |
| 15" | 54" | 84 |
| 18" | | 70 |
| 21" | | 60 |
| 24" | | 52 |
| 15" | 60" | 68 |
| 18" | | 56 |
| 21" | | 48 |
| 24" | | 42 |
| 15" | 66" | 56 |
| 18" | | 47 |
| 21" | | 40 |
| 24" | | 35 |
| 15" | 72" | 43 |
| 18" | | 36 |
| 21" | | 31 |
| 24" | | 27 |

## DOUBLE/MULTI SPAN SHUTTER - ASD LATERAL (WIND) LOADNG CAPACITY (PS

| FOR BLADE TYPE "I" | | |
|---|---|---|
| PANEL WIDTH | PANEL HEIGHT | + / - P.S.F |
| 15" | 24" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 15" | 30" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 15" | 36" | 120 |
| 18" | | 120 |
| 21" | | 113 |
| 24" | | 99 |
| 15" | 42" | 116 |
| 18" | | 97 |
| 21" | | 83 |
| 24" | | 72 |
| 15" | 48" | 89 |
| 18" | | 74 |
| 21" | | 63 |
| 24" | | 55 |
| 15" | 54" | 70 |
| 18" | | 58 |
| 21" | | 50 |
| 24" | | 44 |
| 15" | 60" | 57 |
| 18" | | 47 |
| 21" | | 40 |
| 24" | | 35 |
| 15" | 66" | 47 |
| 18" | | 39 |
| 21" | | 33 |
| 24" | | 29 |
| 15" | 72" | 36 |
| 18" | | 30 |
| 21" | | 26 |
| 24" | | 22 |

## SINGLE SPAN SHUTTER - ASD LATERAL (WIND) LOADNG CAPACITY (PSF)

| FOR BLADES TYPE "G" & "H" | | |
|---|---|---|
| PANEL WIDTH | PANEL HEIGHT | + / - P.S.F |
| 15" | 24" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 27" | | 120 |
| 30" | | 120 |
| 33" | | 120 |
| 36" | | 120 |
| 15" | 30" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 27" | | 120 |
| 30" | | 120 |
| 33" | | 120 |
| 36" | | 113 |
| 15" | 36" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 118 |
| 27" | | 105 |
| 30" | | 94 |
| 33" | | 86 |
| 36" | | 79 |
| 15" | 42" | 120 |
| 18" | | 116 |
| 21" | | 99 |
| 24" | | 87 |
| 27" | | 77 |
| 30" | | 69 |
| 33" | | 63 |
| 36" | | 58 |
| 15" | 48" | 106 |
| 18" | | 88 |
| 21" | | 76 |
| 24" | | 66 |
| 27" | | 59 |
| 30" | | 53 |
| 33" | | 48 |
| 36" | | 44 |

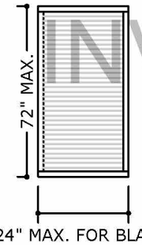
| FOR BLADES TYPE "G" & "H" | | |
|---|---|---|
| PANEL WIDTH | PANEL HEIGHT | + / - P.S.F |
| 15" | 54" | 84 |
| 18" | | 70 |
| 21" | | 60 |
| 24" | | 52 |
| 27" | | 46 |
| 30" | | 42 |
| 33" | | 38 |
| 36" | | 35 |
| 15" | 60" | 68 |
| 18" | | 56 |
| 21" | | 48 |
| 24" | | 42 |
| 27" | | 37 |
| 30" | | 34 |
| 33" | | 31 |
| 36" | | 28 |
| 15" | 66" | 56 |
| 18" | | 47 |
| 21" | | 40 |
| 24" | | 35 |
| 27" | | 31 |
| 30" | | 28 |
| 33" | | 25 |
| 36" | | 23 |
| 15" | 72" | 43 |
| 18" | | 36 |
| 21" | | 31 |
| 24" | | 27 |
| 27" | | 24 |
| 30" | | 21 |
| 33" | | 19 |
| 36" | | 18 |

## DOUBLE/MULTI SPAN SHUTTER - ASD LATERAL (WIND) LOADNG CAPACITY (PSF)

| FOR BLADES TYPE "G" & "H" | | |
|---|---|---|
| PANEL WIDTH | PANEL HEIGHT | + / - P.S.F |
| 15" | 24" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 27" | | 120 |
| 30" | | 120 |
| 33" | | 120 |
| 36" | | 120 |
| 15" | 30" | 120 |
| 18" | | 120 |
| 21" | | 120 |
| 24" | | 120 |
| 27" | | 120 |
| 30" | | 114 |
| 33" | | 103 |
| 36" | | 95 |
| 15" | 36" | 120 |
| 18" | | 120 |
| 21" | | 113 |
| 24" | | 99 |
| 27" | | 88 |
| 30" | | 79 |
| 33" | | 72 |
| 36" | | 66 |
| 15" | 42" | 116 |
| 18" | | 97 |
| 21" | | 83 |
| 24" | | 72 |
| 27" | | 64 |
| 30" | | 58 |
| 33" | | 53 |
| 36" | | 48 |
| 15" | 48" | 89 |
| 18" | | 74 |
| 21" | | 63 |
| 24" | | 55 |
| 27" | | 49 |
| 30" | | 44 |
| 33" | | 40 |
| 36" | | 37 |

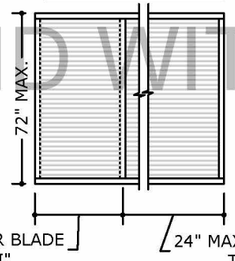
| FOR BLADES TYPE "G" & "H" | | |
|---|---|---|
| PANEL WIDTH | PANEL HEIGHT | + / - P.S.F |
| 15" | 54" | 70 |
| 18" | | 58 |
| 21" | | 50 |
| 24" | | 44 |
| 27" | | 39 |
| 30" | | 35 |
| 33" | | 32 |
| 36" | | 29 |
| 15" | 60" | 57 |
| 18" | | 47 |
| 21" | | 40 |
| 24" | | 35 |
| 27" | | 31 |
| 30" | | 28 |
| 33" | | 25 |
| 36" | | 23 |
| 15" | 66" | 47 |
| 18" | | 39 |
| 21" | | 33 |
| 24" | | 29 |
| 27" | | 26 |
| 30" | | 23 |
| 33" | | 21 |
| 36" | | 19 |
| 15" | 72" | 36 |
| 18" | | 30 |
| 21" | | 26 |
| 24" | | 22 |
| 27" | | 20 |
| 30" | | 18 |
| 33" | | 16 |
| 36" | | 15 |

SINGLE SPAN




24" MAX. FOR BLADE TYPE "I"

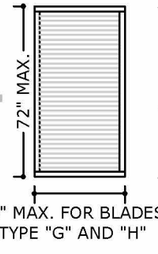
DOUBLE/MULTI SPAN




24" MAX. FOR BLADE TYPE "I"

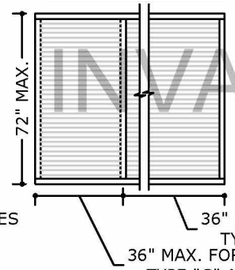
24" MAX. FOR BLADE TYPE "I"

SINGLE SPAN




36" MAX. FOR BLADES TYPE "G" AND "H"

DOUBLE/MULTI SPAN




36" MAX. FOR BLADES TYPE "G" AND "H"

36" MAX. FOR BLADES TYPE "G" AND "H"

| ANCHOR SCHEDULE | | | |
|---|---|---|---|
| ANCHOR TYPE | MATERIAL | EMBED. (in.) | E.D. (in.) |
| ¼" DEWALT ULTRACONS | 3000 PSI CONCRETE | 1.75 | 2.5 |
| | WOOD (SYP≠2 MIN. G=55) | 1.75 | 1 |
| ¼" ITW TAPCONS | 3000 PSI CONCRETE | 1.75 | 2.5 |
| | WOOD (SYP≠2 MIN. G=55) | 1.75 | 1 |
| 1/4-20 SMS | ⅛" STEEL ⅛" ALUM. | 5 PINCHES | 0.625 |

HOST STEEL = A-36 MIN.
HOST ALUMINUM = 6063-T6 MIN

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FBC 7TH ED (2020) & IBC (2018)

| REMARKS | DRWN | CHKD | DATE |
|---|---|---|---|
| INIT ISSUE | JMP | FLB | 2/19/18 |
| 2020 FBC | COB | FLB | 5/17/21 |
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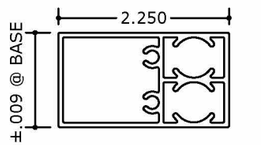
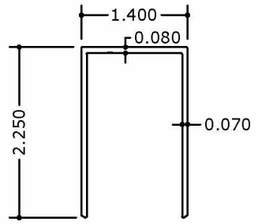
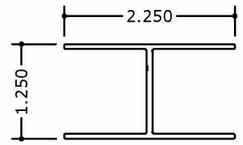


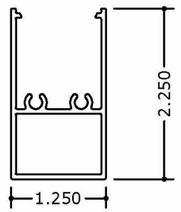

A — OVAL BLADE SIDE RAIL
010351 CAD - 010351



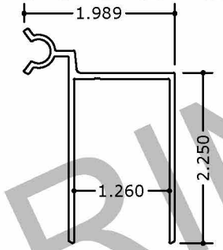

B — TOP / BOTTOM RAIL
050493 CAD - 050493



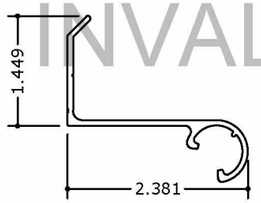

C — NEW H.V. LOW PROFILE CENTER MULL
051055 CAD - 051055



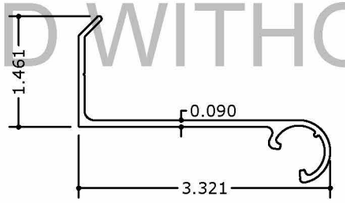

D — "Z" BLADE SIDE RAIL
010601 CAD - 010601



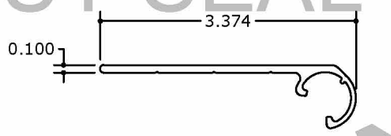

E — CHANNEL W/ MALE HINGE
051054 CAD - 051054



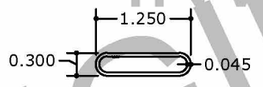

F1 — FEMALE HINGE
840007A CAD - 839891



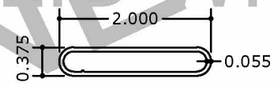

F2 — FEMALE HINGE
GAS-839891 CAD - 839891



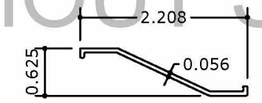

F3 — FEMALE HINGE
GAS-840045 CAD - 840045



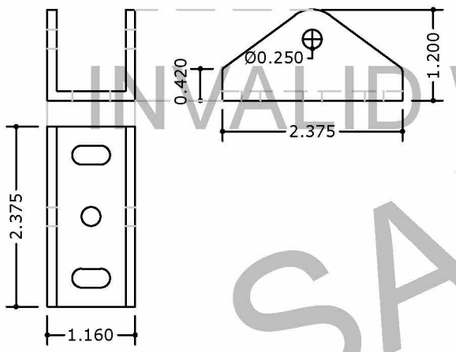

G — 1 1/4" DECORATIVE BLADE
CAD - 052208
NOTE: 36" MAX. SPAN



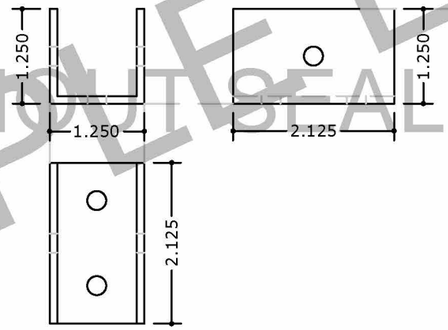

H — 2" DECORATIVE BLADE
FH-06683 CAD - FH06683
NOTE: 36" MAX. SPAN




I — LOUVER "Z" BLADE
GAS-42150 CAD - 042150
NOTE: 24" MAX. SPAN

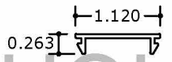



J1 — U CAMEL BACK CLIP
U CHANNEL 3004-H32 ALUMINUM

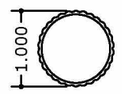



J2 — ALTERNATE MOUNTING CHANNEL
U CHANNEL 3004-H32 ALUMINUM

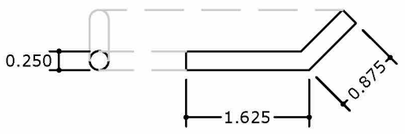
K — 7/8" SERRATED TUBE
FH-02819 CAD - FH02819



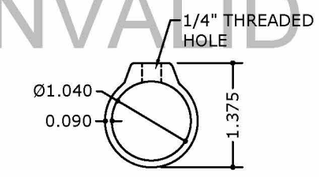

M — "Z" BLADE SNAP CHANNEL
010600 CAD - 010600




L — 1" SERRATED TUBE
FH-02820 CAD - FH02820




N — "L" PIN




R — SLIP COLLAR
SLIP COLLAR

NOTE: ALL PARTS TO BE 6063-T6 ALUMINUM UNLESS OTHERWISE NOTED.

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DECORATIVE BAHAMA SHUTTER
SYSTEM MASTER PLAN
FBC 7TH ED (2020) & IBC (2018)

| REMARKS | DRWN | CHKD | DATE |
|---|---|---|---|
| INIT ISSUE | JMP | FLB | 2/19/18 |
| 2020 FBC | CCB | FLB | 5/17/21 |
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SCALE: NTS UNLESS NOTED

3 OF 3

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