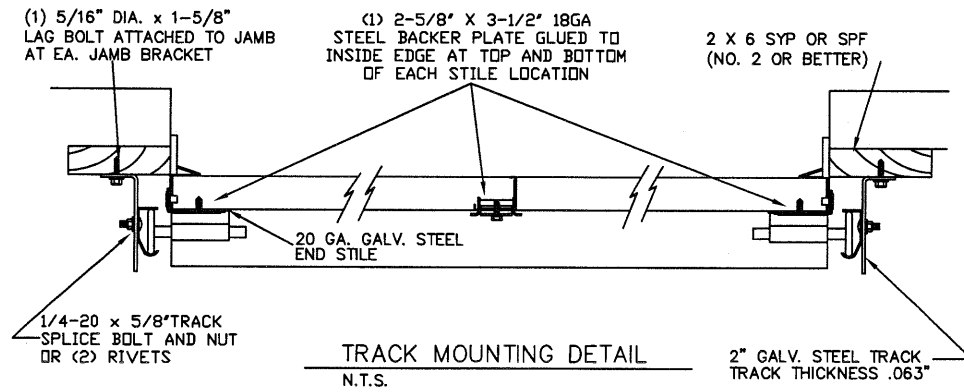


LARGE MISSILE IMPACT RESISTANT

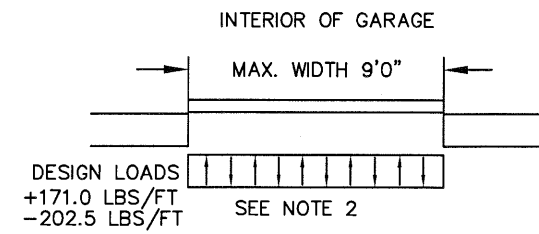
SPECIFICATIONS AND NOTES

1. ALL THE LOAD FROM THE DOOR IS TRANSFERRED TO THE VERTICAL TRACK, FROM THE TRACK THE LOAD IS TRANSFERRED TO THE VERTICAL JAMBS. THE HORIZONTAL JAMB OR HEADER RECEIVES NO PORTION OF THE LOAD
2. EACH VERTICAL JAMBS RECEIVES MAXIMUM DESIGN LOADS OF: +171.0 LBS/FT & -202.5 LBS/FT
3. DOOR AND HARDWARE WILL BE DESIGNED, MANUFACTURED AND INSTALLED WITH STANDARDS AS SET FORTH BY DASMA.
4. DOOR SECTIONS SHALL BE 24 GA. (.0216) MIN. EXTERIOR SKIN ROLLED FORMED, W/ BAKED ON POLYESTER FINISH
5. DOORS OVER (4) SECTIONS REFER TO TABLES 1 AND 2
6. SUPPORTING STRUCTURAL ELEMENTS SHALL BE DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER FOR WIND LOADS



THE METHOD OF TESTING WAS IN SUBSTANTIAL CONFORMANCE WITH THE PROCEDURE DESCRIBED IN DASMA 108 & 115, ASTM E330, E1886, E1996, & F588. THE PRESSURES SHOWN ON THE DRAWINGS WERE CALCULATED USING ASCE 7-98/02/05 WITH THE FOLLOWING PARAMETERS (5 FEET OF DOOR WIDTH IN THE END ZONE, ROOF AT ANY SLOPE I=1.0):

| WIND SPEED (MPH) | 155 | 141 | 134 | 128 | 123 |
|------------------|-----|-----|-----|-----|-----|
| EXPOSURE LEVEL | B | C | C | D | D |
| MEAN ROOF HEIGHT | 30' | 15' | 25' | 15' | 25' |



| REV | DESCRIPTION OF REVISIONS | DATE | BY |
|-----|--------------------------|------|----|
| | | | |

MAX SIZE
9' WIDTH
14' HEIGHT

DESIGN LOADS
+38.0 PSF
-45.0 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+57.0 PSF
-67.5 PSF

LARGE MISSILE IMPACT RESISTANCE

Thomas L. Shelmerdine, PE (TX PE #85829)
Structural Solutions, PA (TX Firm #F-004063)

TX

ENTRE/MATIC
165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

AMARR MODEL #1200 HERITAGE 3000
AMARR MODEL #1200 OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

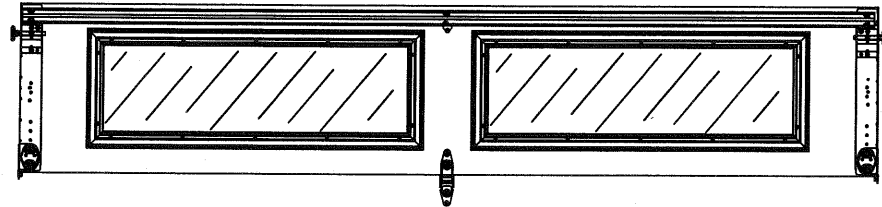
| SIZE | DRAWN BY | RLR | DATE | 2/10/15 | DRAWING NUMBER |
|------|------------|-----|------|---------|-------------------|
| B | CHECKED BY | RLR | DATE | 2/10/15 | IRC-1209-155-15-1 |

SHEET 1 OF 3

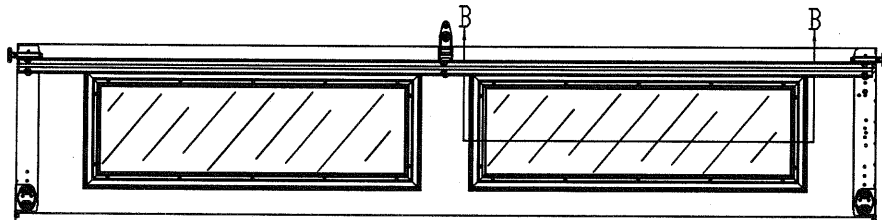
5921-G.W. Friendly Ave., Greensboro, NC 27410

OPTIONAL SHORT AND LONG PANEL GLAZING LAYOUTS

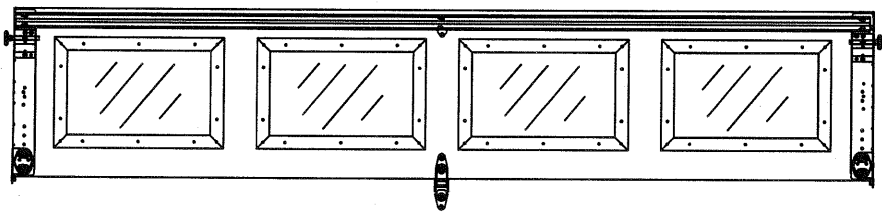
TOP SECTION



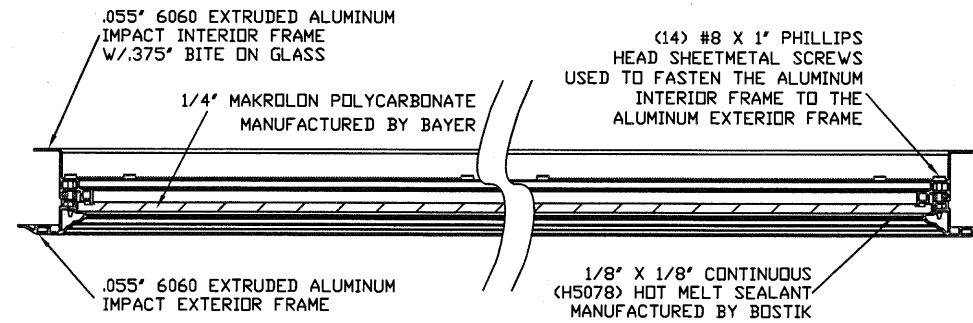
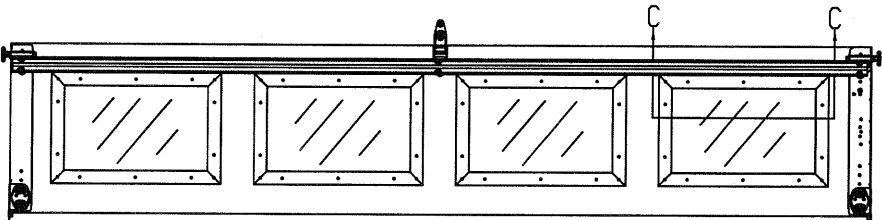
INTERMEDIATE SECTION



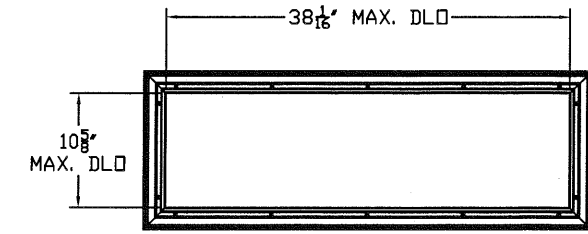
TOP SECTION



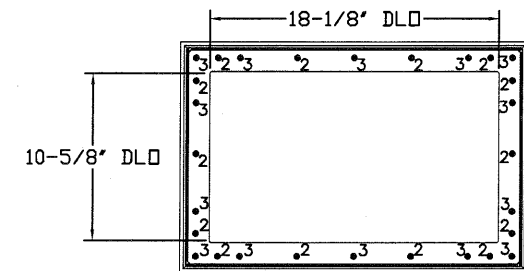
INTERMEDIATE SECTION



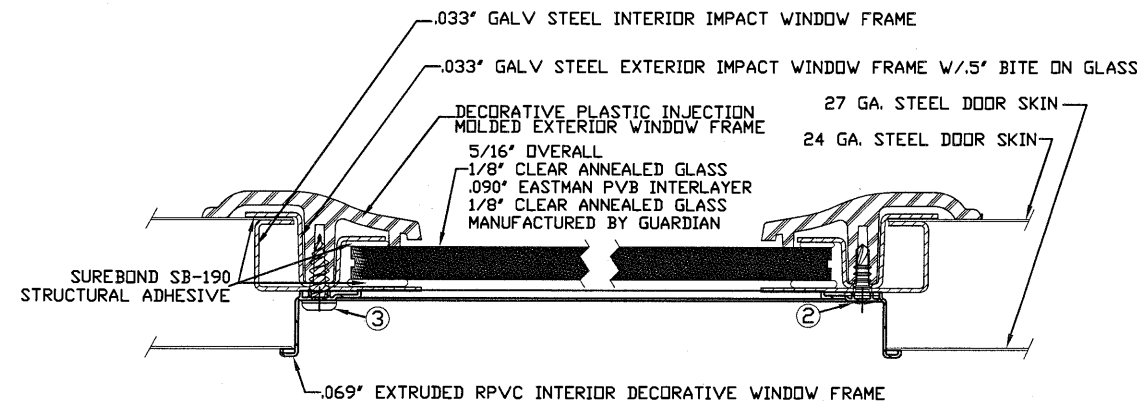
SECTION B-B IMPACT WINDOW DETAIL
N.T.S.



LONG PANEL IMPACT GLAZING FASTENER DETAIL
N.T.S.



IMPACT GLAZING FASTENER DETAIL
N.T.S.
GLAZING MEETS ASTM E1300-04



- 3/16" X 1/2" SCREW - USED TO FASTEN THE STEEL EXTERIOR IMPACT WINDOW FRAME TO THE STEEL INTERIOR IMPACT WINDOW FRAME.
- 11/64" X 1/2" SCREW - USED TO FASTEN DECORATIVE PLASTIC MOLDED WINDOW FRAME TO THE ASSEMBLY

SECTION C-C IMPACT WINDOW DETAIL
N.T.S.

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|-----|--------------------------|------|----|
| | | | |

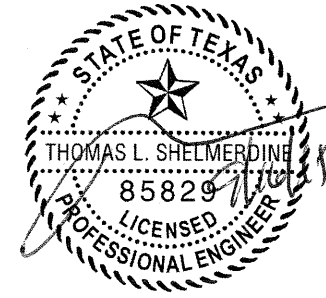
MAX SIZE
9' WIDTH
14' HEIGHT

DESIGN LOADS
+38.0 PSF
-45.0 PSF

TEST LOADS
(1.5 x DESIGN LOADS)
+57.0 PSF
-67.5 PSF

LARGE MISSILE
IMPACT
RESISTANCE

Thomas L. Shelmerdine, PE (TX PE #85829)
Structural Solutions, PA (TX Firm #F-004063)



5921-G.W. Friendly Ave., Greensboro, NC 27410

ENTRE/MATIC

165 CARRIAGE COURT WINSTON-SALEM, N.C. 27105

AMARR MODEL #1200 HERITAGE 3000
AMARR MODEL #1200 OAK SUMMIT 3000
SHORT, LONG, FLUSH & OAK SUMMIT PANELS

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SHEET 2 OF 3

WOOD JAMB ATTACHMENT TO STRUCTURE

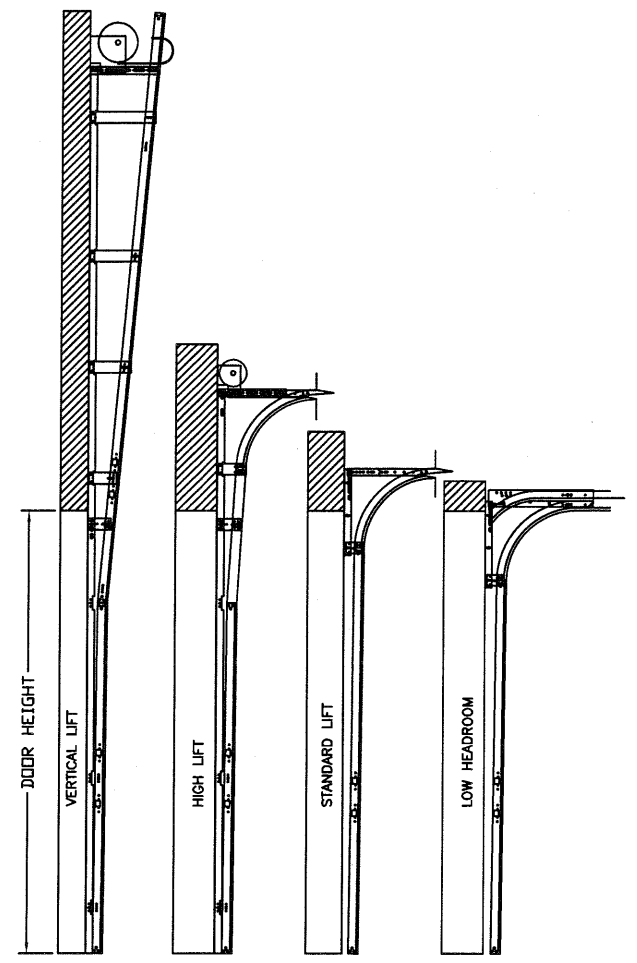
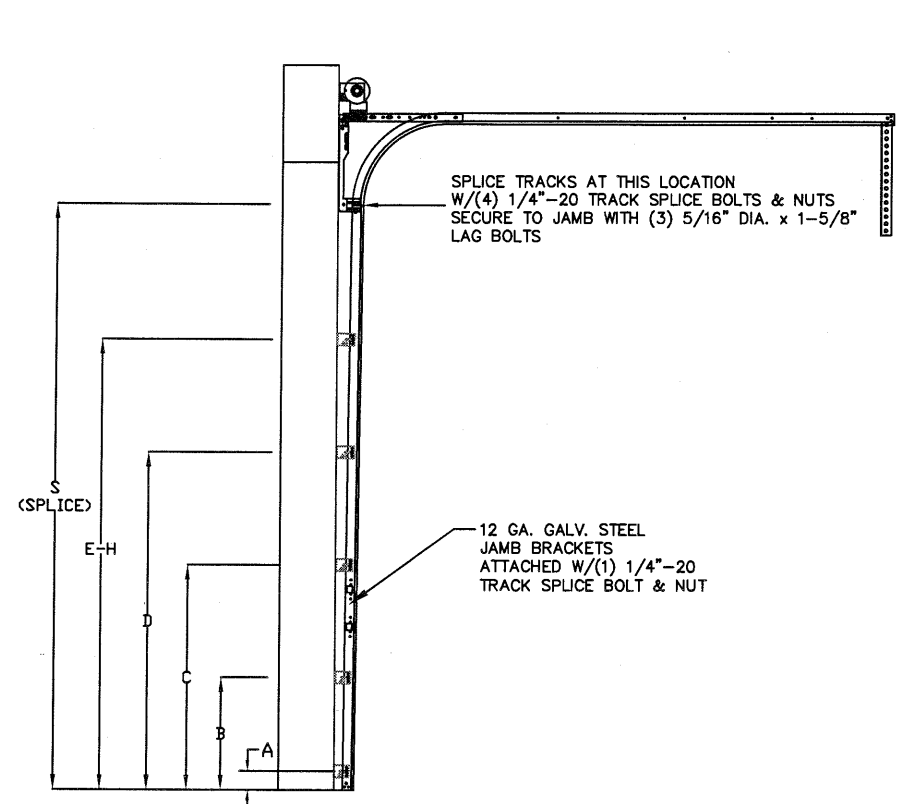
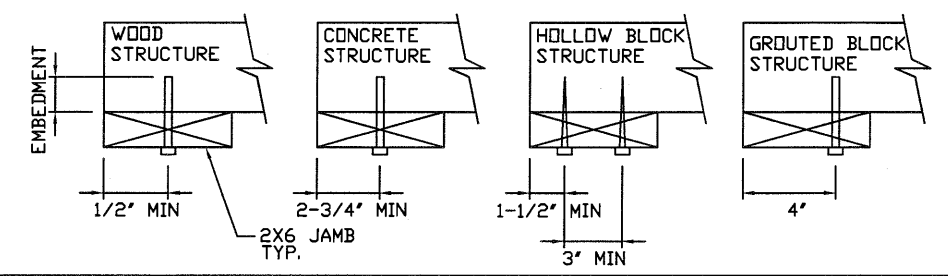
2 X 6 VERTICAL JAMB ATTACHMENT TO WOOD FRAME STRUCTURE
 5/16" X 3" LAG SCREWS STARTING 6" FROM ENDS THEN 24" O.C. (1 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO 2,000 PSI CONCRETE
 HILTI KWIK BOLT 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)
 HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT)
 ITW/RAMSET REDHEAD (TRU-BOLT) 3/8" X 4" STARTING 6" FROM ENDS THEN 24" O.C. (2 1/2" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO HOLLOW C-90 BLOCK
 SIMPSON 1/4" X 3" TITEN SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/2" EMBEDMENT)
 HILTI 1/4" X 2-3/4" KWIK-CON II+ SCREWS STARTING 6" FROM ENDS, USE PAIRS OF FASTENERS (3" APART) AT 16" O.C. (1 1/4" EMBEDMENT)

2 X 6 VERTICAL JAMB ATTACHMENT TO GROUTED C-90 BLOCK (2000 PSI GROUT)
 HILTI SLEEVE ANCHOR 3/8" X 2-3/4" STARTING 6" FROM ENDS THEN 24" O.C. (1 1/4" EMBEDMENT) (OR, USE FASTENERS FOR HOLLOW C-90 BLOCK)

*LAGS AND BOLTS CAN BE COUNTERSUNK TO PROVIDE A FLUSH MOUNTING SURFACE.
 *PREPARATION OF WOOD JAMBS BY OTHERS



TRACK CONFIGURATION FOR 6'6" UP TO 14' TALL DOORS (SEE TABLE 1)
 N.T.S.

TABLE 1

| DOOR HEIGHT | TRACK ATTACHMENT | | | | | | | | SPLICE |
|-------------|------------------|-----|-----|-----|-----|------|------|------|--------|
| | A | B | C | D | E | F | G | H | |
| 6' 6" | 3.5" | 21" | 42" | 63" | | | | | 70" |
| 7' | 3.5" | 21" | 42" | 63" | | | | | 76" |
| 7' 6" | 3.5" | 21" | 42" | 63" | | | | | 82" |
| 8' | 3.5" | 21" | 42" | 63" | | | | | 88" |
| 8' 6" | 3.5" | 21" | 42" | 63" | 84" | | | | 94" |
| 9' | 3.5" | 21" | 42" | 63" | 84" | | | | 100" |
| 9' 6" | 3.5" | 21" | 42" | 63" | 84" | | | | 106" |
| 10' | 3.5" | 21" | 42" | 63" | 84" | 105" | | | 112" |
| 10' 6" | 3.5" | 21" | 42" | 63" | 84" | 105" | | | 118" |
| 11' | 3.5" | 21" | 42" | 63" | 84" | 105" | | | 124" |
| 11' 6" | 3.5" | 21" | 42" | 63" | 84" | 105" | | | 130" |
| 12' | 3.5" | 21" | 42" | 63" | 84" | 105" | 126" | | 136" |
| 12' 6" | 3.5" | 21" | 42" | 63" | 84" | 105" | 126" | | 142" |
| 13' | 3.5" | 21" | 42" | 63" | 84" | 105" | 126" | | 148" |
| 13' 6" | 3.5" | 21" | 42" | 63" | 84" | 105" | 126" | 147" | 154" |
| 14' | 3.5" | 21" | 42" | 63" | 84" | 105" | 126" | 147" | 160" |

ALL TRACK ATTACHMENT SPACING +/-2" ALLOWED WITH SYP OR SPF NO. 2 OR BETTER ONLY

TABLE 2

| DOOR HEIGHT | SECTION HEIGHTS | | | | | | | |
|-------------|-----------------|-----|-----|-----|-----|-----|-----|-----|
| | Btm | #2 | #3 | #4 | #5 | #6 | #7 | #8 |
| 14' 0" | 21" | 21" | 21" | 21" | 21" | 21" | 21" | 21" |
| 13' 6" | 21" | 21" | 21" | 21" | 21" | 18" | 18" | 21" |
| 13' 0" | 21" | 21" | 21" | 18" | 18" | 18" | 18" | 21" |
| 12' 6" | 21" | 18" | 18" | 18" | 18" | 18" | 18" | 21" |
| 12' 0" | 21" | 21" | 21" | 21" | 21" | 18" | 21" | |
| 11' 6" | 21" | 21" | 21" | 18" | 18" | 18" | 21" | |
| 11' 0" | 21" | 18" | 18" | 18" | 18" | 18" | 21" | |
| 10' 6" | 21" | 21" | 21" | 21" | 21" | 21" | | |
| 10' 0" | 21" | 21" | 21" | 18" | 18" | 21" | | |
| 9' 6" | 21" | 18" | 18" | 18" | 18" | 21" | | |
| 9' 0" | 18" | 18" | 18" | 18" | 18" | 18" | | |
| 8' 6" | 21" | 21" | 21" | 18" | 21" | | | |
| 8' 0" | 21" | 18" | 18" | 18" | 21" | | | |
| 7' 6" | 18" | 18" | 18" | 18" | 18" | | | |
| 7' 0" | 21" | 21" | 21" | 21" | | | | |
| 6' 6" | 21" | 18" | 18" | 21" | | | | |

TABLE 3

| Section Width (ft) | Panel Type | Center Stile Location (Measured from Left Edge) |
|--------------------|------------|---|
| 8' 0" | Short | 48.000 |
| 8' 0" | Long | 48.000 |
| 8' 2" | Short | 49.000 |
| 8' 2" | Long | 49.000 |
| 8' 4" | Short | 50.000 |
| 8' 4" | Long | 50.000 |
| 8' 6" | Short | 51.000 |
| 8' 6" | Long | 51.000 |
| 8' 8" | Short | 52.000 |
| 8' 8" | Long | 52.000 |
| 8' 10" | Short | 53.000 |
| 8' 10" | Long | 53.000 |
| 9' 0" | Short | 54.000 |
| 9' 0" | Long | 54.000 |

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9' WIDTH
14' HEIGHT

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TEST LOADS
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