



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

NOTICE OF ACCEPTANCE (NOA)

Town & Country Industries
A division of ABC Supply Co., Inc.
400 West McNab Road
Ft. Lauderdale, Florida 33309

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.050" (min.) Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 08-351, titled "0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, last revision #1 dated October 21, 2011, signed and sealed by V.J. Knezevich, P.E. on October 21, 2011 bearing the Miami-Dade County Product Control Revision stamp with the notice of Acceptance number and the expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, Miami, FL or Tampa, FL and the following statement: "Miami-Dade County Product Control Approved", and NOA number, per TAS-201, TAS-202, and TAS-203, unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 10-0929.04 and consists of this page 1, evidence submitted pages E-1, E-2, & E-3 as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
09/06/2012

NOA No. 12-0406.08
Expiration Date: 11/16/2015
Approval Date: 09/06/2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0809.03

A. DRAWINGS:

1. *Drawing Number 00-159, titled " 0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Knezevich & Associates, dated August 1, 2000, last revision #1 dated October 26, 2000, signed and sealed by V. J. Knezevich, P.E.*

B. TESTS:

1. *Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.050" aluminum storm panels, prepared by Construction Testing Corporation, Test Report No. CTC 00-028 dated 06/28/2000, signed and sealed by Christopher G. Tyson, P.E.*

C. CALCULATIONS:

1. *Comparative Analysis and Anchor Analysis, dated 07/12/2000, pages 1 through 56, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.*
2. *Comparative Analysis, dated 10/26/2000, pages 1 through 3, prepared by Knezevich & Associates, Inc., signed by V. J. Knezevich, P.E.*

D. MATERIAL CERTIFICATION:

1. *Mill Certified Inspection Report of coils, for Aluminum Alloy 3004-H34 by Jupiter Aluminum Corp. with physical properties.*
2. *Certified Tensile Test Report by Certified Testing Laboratories, Report No. CTL-592F dated 06/26/2000, for Aluminum Alloy, signed and sealed by Ramsh Patel, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0421.13

A. DRAWINGS

1. *Drawing No. 03-259, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich & Associates, Inc., dated April 04, 2003, last revision #1 dated September 23, 2003 signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSOURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0406.08
Expiration Date: 11/16/2015
Approval Date: 09/06/2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 05-0713.03

A. DRAWINGS

1. *Drawing No. 05-353, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Thornton-Tomasetti Group, dated June 29, 2005, last revision #0 dated June 29, 2005 signed and sealed by V.J. Knezevich, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *Anchor Analysis, dated June 15, 2005, 39 pages, prepared by Thornton-Tomasetti Group, signed and sealed by V. J. Knezevich, P.E.*

D. QUALITY ASSOURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #09-0114.05

A. DRAWINGS

1. *Drawing No. 08-351, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, signed and sealed by V.J. Knezevich, P.E., on September 03, 2008.*

B. TESTS

1. *None.*

C. CALCULATIONS

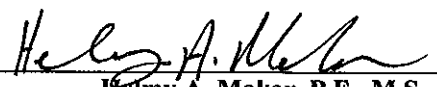
1. *Anchor Analysis, dated September 09, 2008, 19 pages, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, signed and sealed by V.J. Knezevich, P.E., on September 03, 2008.*

D. QUALITY ASSOURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0406.08
Expiration Date: 11/16/2015
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 10-0929.04

A. DRAWINGS

1. *None.*

B. TESTS

1. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test on 0.050" Aluminum Storm Panels, prepared by Hurricane Test Laboratory, LLC, Test Report No. HTL 0353-0804-10, dated 09/07/2010, signed and sealed by Vinu J. Abraham, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSOURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 08-351, titled " 0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Knezevich Associates Consulting Engineers, dated September 01, 2008, last revision #1 dated October 21, 2011, signed and sealed by V.J. Knezevich, P.E. on October 21, 2011.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSOURANCE

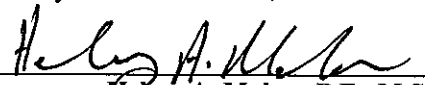
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

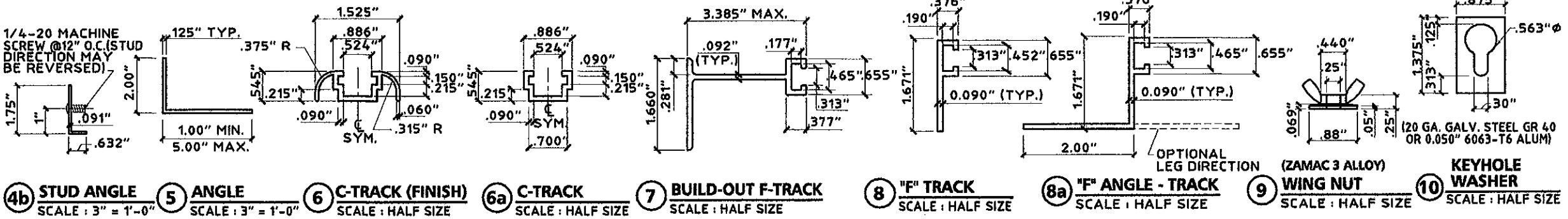
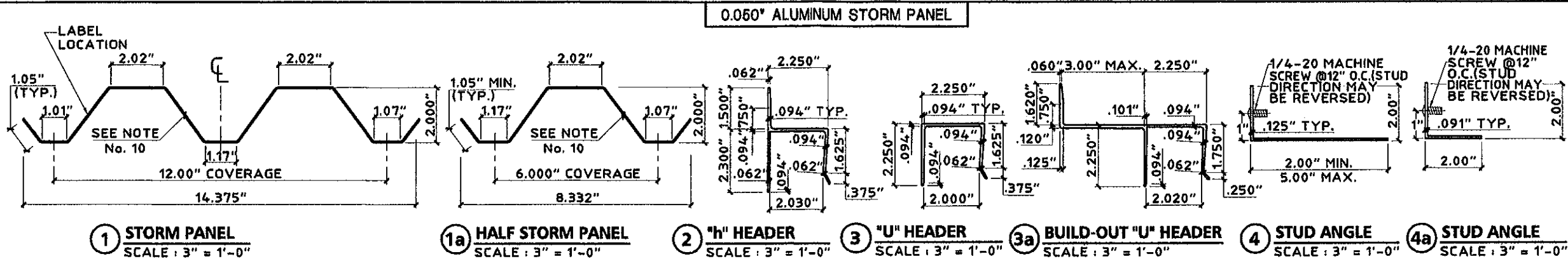
1. *None.*

F. OTHERS

1. *FBC 2010 edition compliance letter, prepared by Knezevich Associates Consulting Engineers, dated February 10, 2012, signed and sealed by V.J. Knezevich, P.E.*

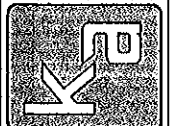
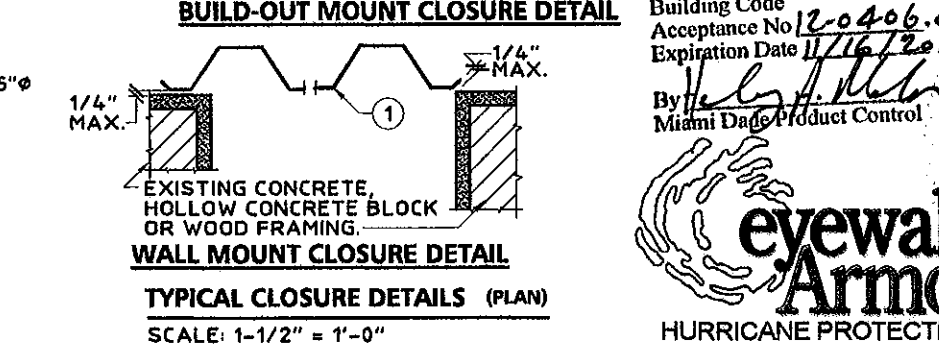
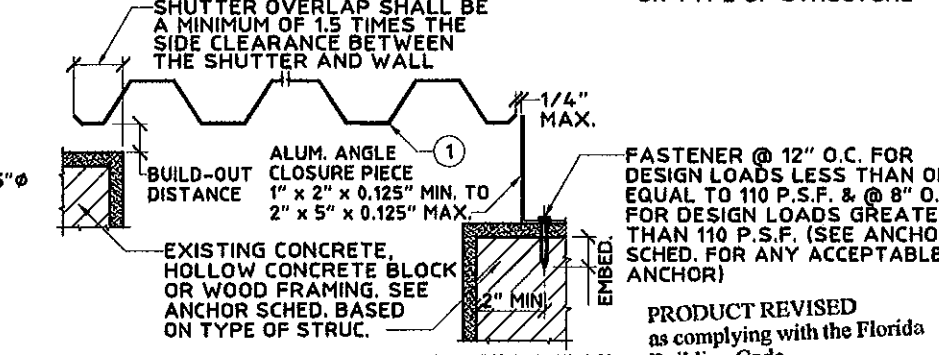
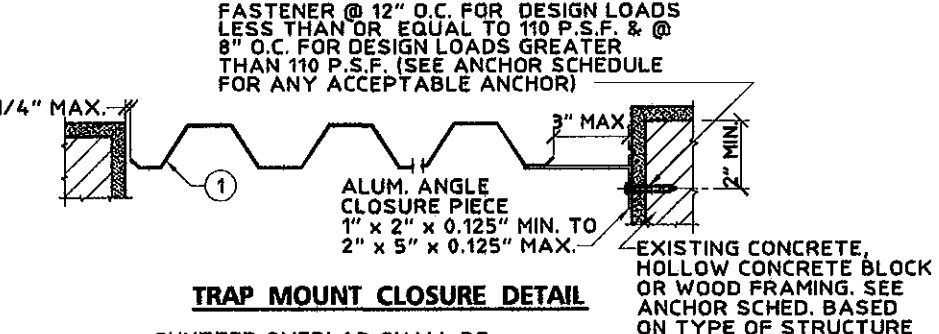
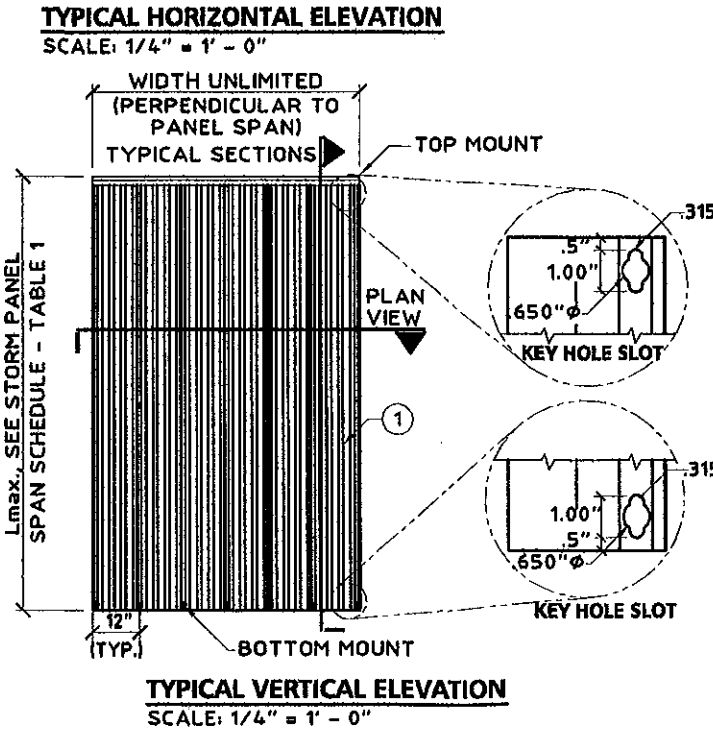
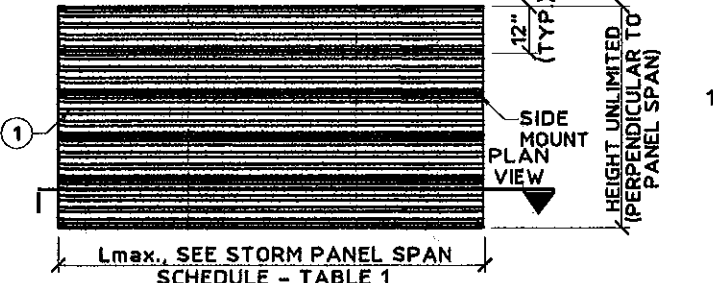


Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
NOA No. 12-0406.08
Expiration Date: 11/16/2015
Approval Date: 09/06/2012



GENERAL NOTES:

1. THESE APPROVAL DOCUMENTS REPRESENT A SHUTTER SYSTEM ANALYZED WITH THE PROVISION SET FOR THE ISSUANCE OF A NOTICE OF ACCEPTANCE (NOA) BY MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION FOR THE HIGH VELOCITY HURRICANE ZONE (HVHZ) OF THE FLORIDA BUILDING CODE.
2. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD LAG SCREW DESIGN.
3. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY.
4. THESE APPROVAL DOCUMENTS ARE GENERIC AND DO NOT INCLUDE INFORMATION FOR SITE-SPECIFIC APPLICATION OF THIS SHUTTER SYSTEM.
5. USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
6. THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
7. ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
8. WHEN THE SITE CONDITIONS DEVIATE FROM THESE APPROVAL DOCUMENTS, THE BUILDING OFFICIAL MAY ELECT ONE OF THE FOLLOWING OPTIONS:
 A) REQUIRE THAT SITE SPECIFIC DOCUMENTS BE PREPARED, SIGNED, DATED AND SEALED BY A LICENSED ENGINEER OR REGISTERED ARCHITECT, WHICH DETAIL AND JUSTIFY THE DEVIATION. SAID DOCUMENTS SHALL BE SUBMITTED TO THE PRODUCT ENGINEER FOR REVIEW AS A CONDITION TO THE BUILDING OFFICIAL GRANTING HIS/HER APPROVAL.
 B) REQUIRE THAT A ONE-TIME SITE SPECIFIC APPROVAL BE APPLIED FOR AND SECURED FROM THE MIAMI-DADE COUNTY PRODUCT CONTROL DIVISION.
9. WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
 TOWN & COUNTRY INDUSTRIES
 FT. LAUDERDALE, FL
 MIAMI-DADE COUNTY PRODUCT APPROVED
10. STORM PANELS SHALL BE 3004-H34 OR 5052-H34 ALUMINUM ALLOY, WITH THE FOLLOWING MINIMUM THICKNESS AND MECHANICAL PROPERTIES: NOMINAL 0.050"
11. ALL EXTRUSIONS SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N
12. ALL BOLTS AND WASHERS SHALL BE GALVANIZED OR STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N.
13. TOP & BOTTOM DETAILS SHOWN MAY BE INTERCHANGED AS FIELD CONDITIONS DICTATE. PANELS MAY BE MOUNTED HORIZONTALLY WHERE APPLICABLE, EXCEPT FOR "h" AND "U" HEADER MOUNTING CONDITIONS.



KNEZEVICH ASSOCIATES
 Consulting Engineers * COA 27989
 2590 S.W. 105th Terrace * Davie, Florida 33324
 T (954) 821-6953 * www.knezevich-associates.com
 email: VJ@knezevich-associates.com

Town & Country INDUSTRIES
 Wholesale Aluminum and Building Products
 A Division of ABC Supply Co., Inc.
 400 WEST MCNAB ROAD * FORT LAUDERDALE, FL 33309
 PHONE 954.970.9999 * FAX 954.970.9988

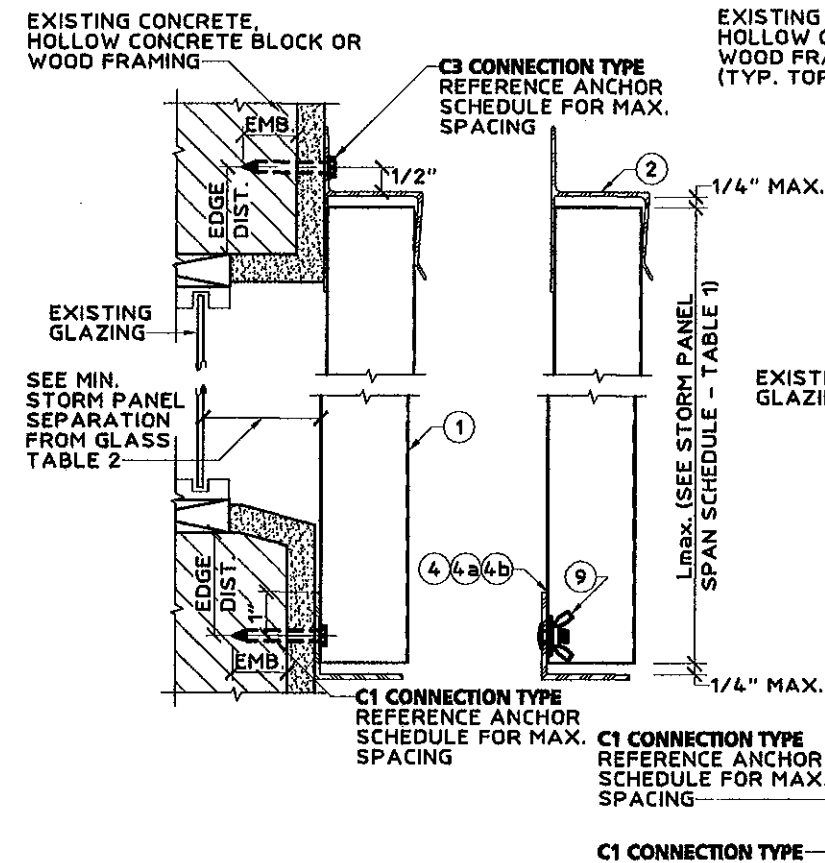
REVISED	DESCRIPTION	DATE	BY

V.J. Knezevich
 Professional Engineer
 FL License No. 12019983

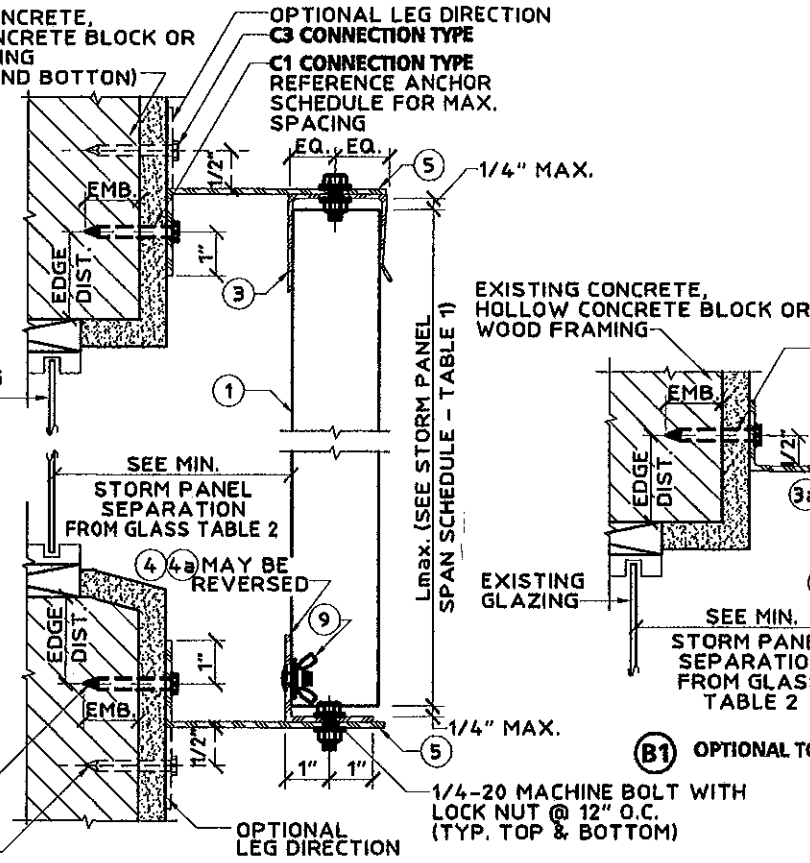
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0406-08
 Expiration Date 11/16/2015
 By *[Signature]*
 Miami Dade Product Control
 OCT 21 2011
 drawn by ARV scale AS NOTED
 09/01/2008
 drawing no. 08-351
 sheet 1 of 6



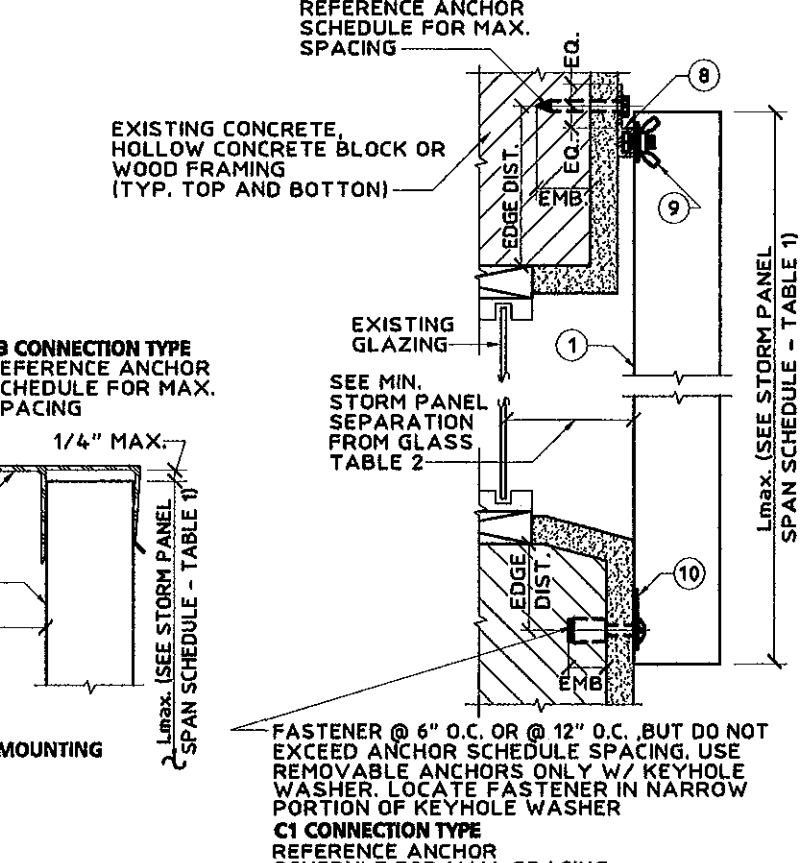
0.050" ALUMINUM STORM PANEL



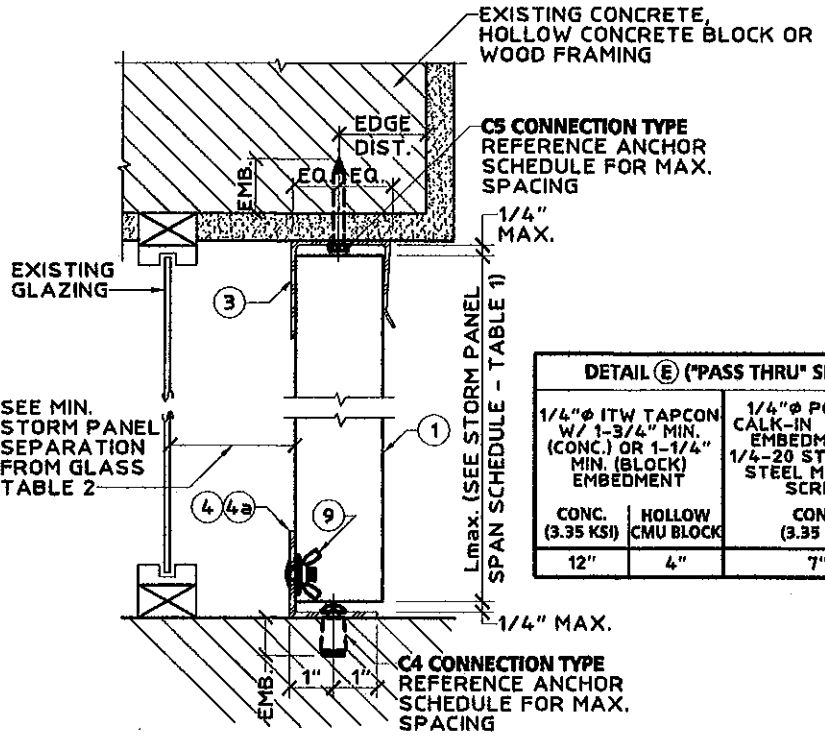
A WALL MOUNT SECTION
SCALE: 3" = 1' - 0"



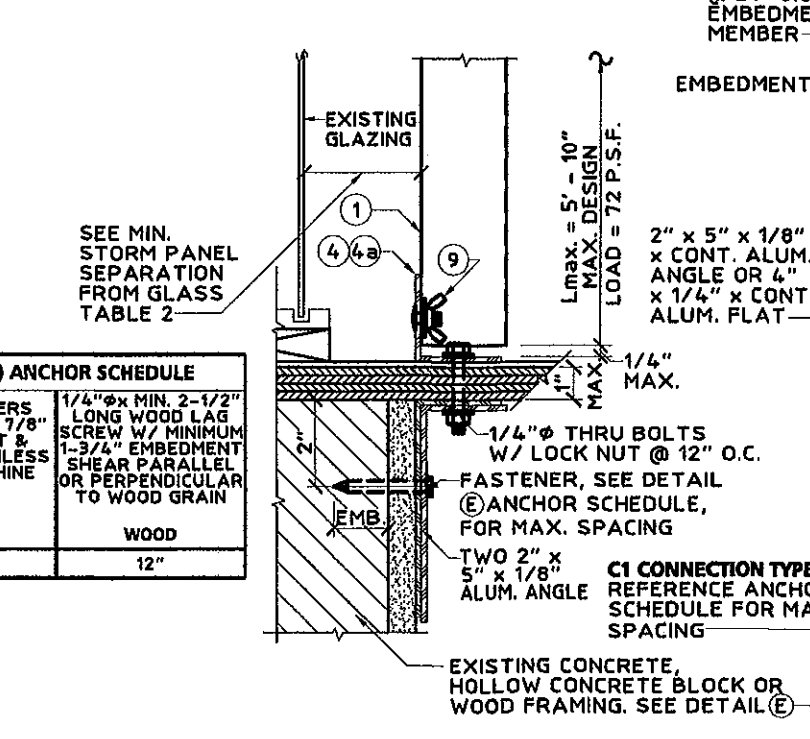
B BUILD-OUT MOUNT SECTION
SCALE: 3" = 1' - 0"



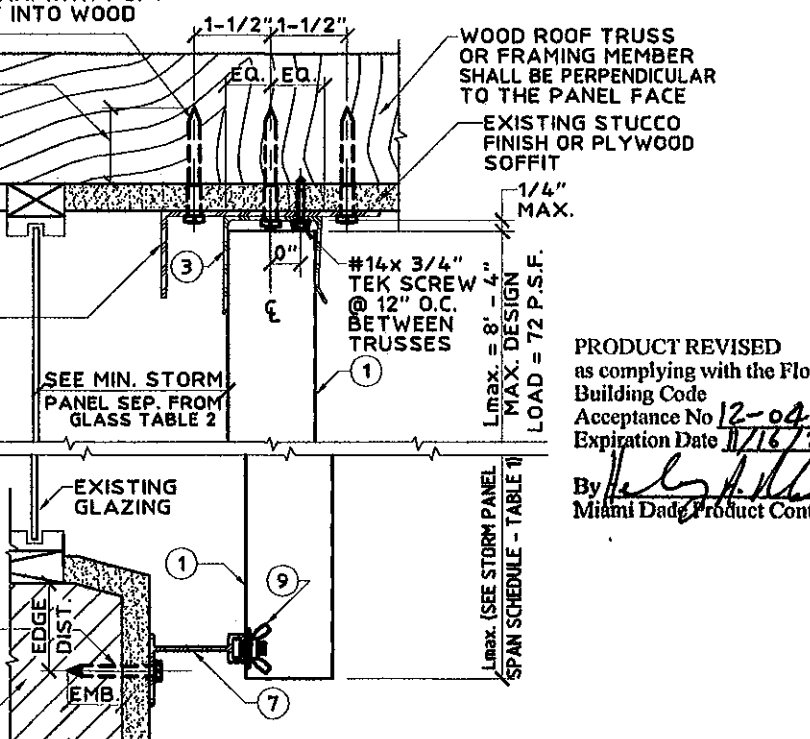
C "F" TRACK/DIRECT MOUNT SECTION
SCALE: 3" = 1' - 0"



D CEILING/FLOOR MOUNT SECTION
SCALE: 3" = 1' - 0"



E "PASS THRU" SECTION
SCALE: 3" = 1' - 0"



F CEILING MOUNT / BUILD OUT SECTION
SCALE: 3" = 1' - 0"

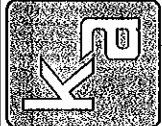
DETAIL (E) ("PASS THRU" SEC.) ANCHOR SCHEDULE

CONC. (3.35 KSI)	HOLLOW CMU BLOCK	CONC. (3.35 KSI)	WOOD
12"	4"	7"	12"

FASTENER @ 6" O.C. OR @ 12" O.C., BUT DO NOT EXCEED ANCHOR SCHEDULE SPACING. USE REMOVABLE ANCHORS ONLY W/ KEYHOLE WASHER. LOCATE FASTENER IN NARROW PORTION OF KEYHOLE WASHER
C1 CONNECTION TYPE REFERENCE ANCHOR SCHEDULE FOR MAX. SPACING

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-0406.08
Expiration Date 11/16/2015

By *[Signature]*
Miami Dade Product Control



KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * www.Knezevich-Associates.com
email: VJK@Knezevich-Associates.com

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Town & Country
A DIVISION OF ABC SUPPLY CO., INC.
Wholesale Aluminum and Building Products
400 WEST McNAB ROAD * FORT LAUDERDALE, FL 33309
PHONE 954-970-9999 * FAX 954-970-9988

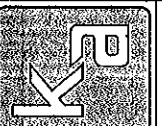
revisions	description	by	date

V.J. Knezevich
Professional Engineer
FL License No. 94109983

OCT 21 2011

drawn by *[Signature]* scale AS NOTED
date 09/01/2008

drawing no. **08-351**
sheet 2 of 6



KNEZEVICH ASSOCIATES
 Consulting Engineers * COA 27989
 2590 S.W. 105th Terrace * Davie, Florida 33324
 T (954) 821-6933 * www.Knezevich-Associates.com
 email: VJ@Knezevich-Associates.com

Town & Country INDUSTRIES
 Wholesale Aluminum and Building Products
 A Division of ABC Supply Co., Inc.
 400 WEST McVAB ROAD * FORT LAUDERDALE, FL 33309
 PHONE 954.970.9999 * FAX 954.970-9988

no	date	description	by	chk
1	10/21/2011	MARKING REQUESTED	VJK	

V.J. Knezevich
 Professional Engineer
 FL License No. 0010883

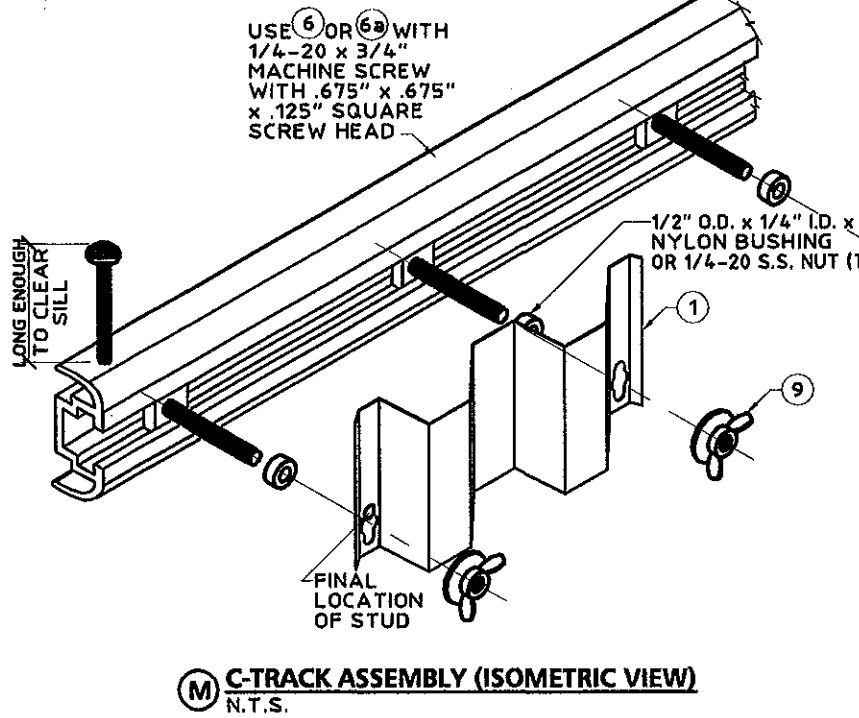
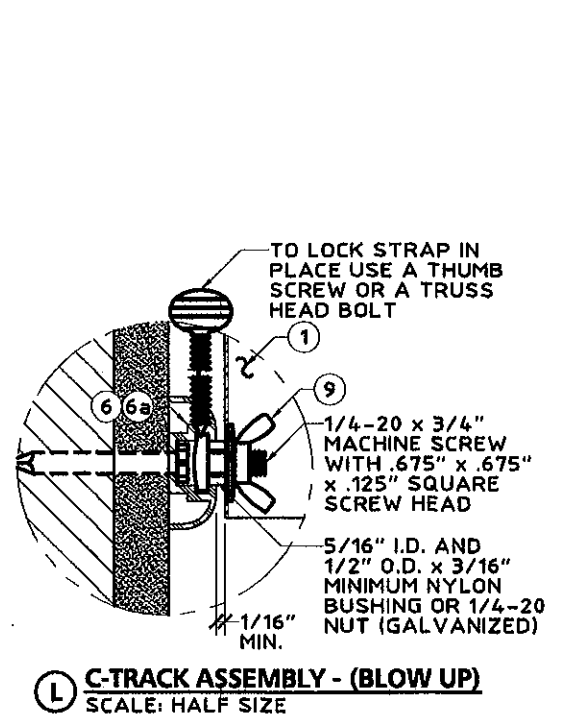
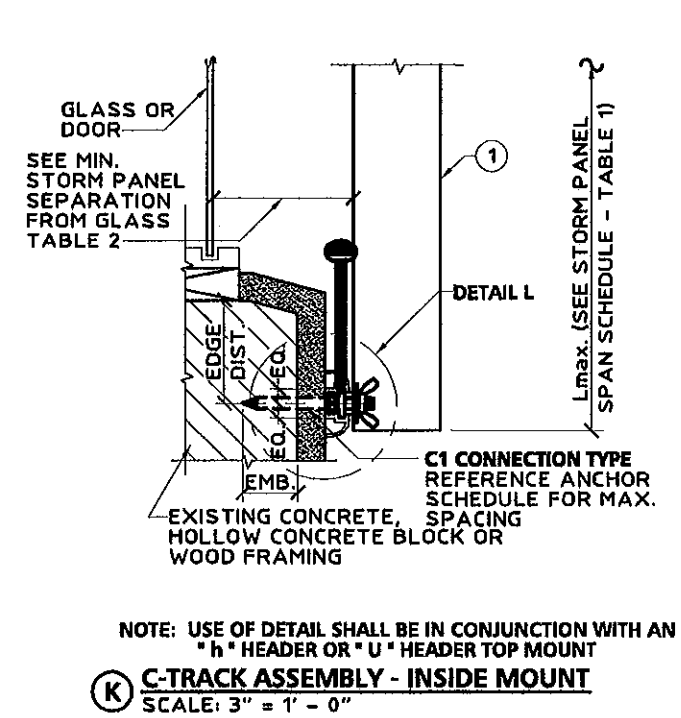
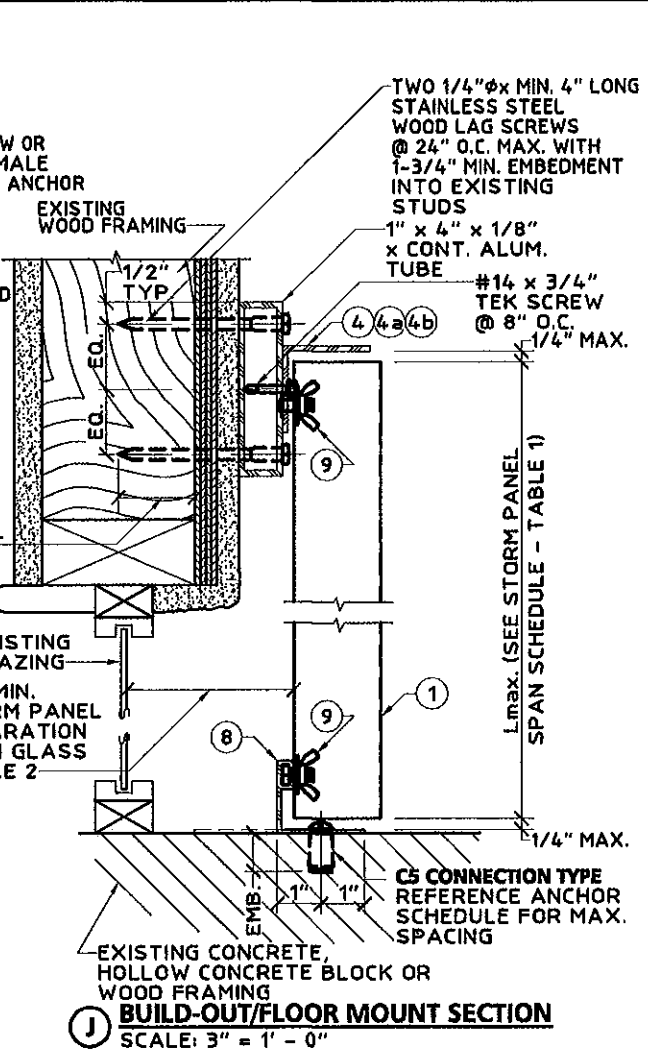
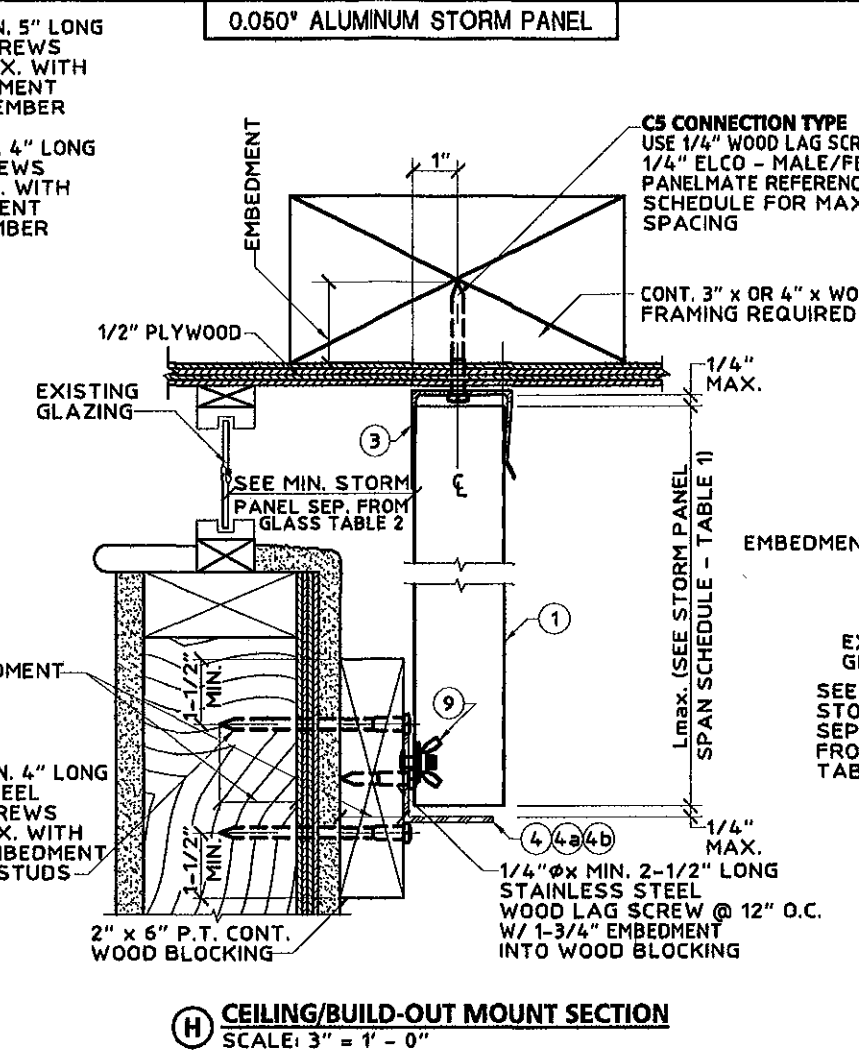
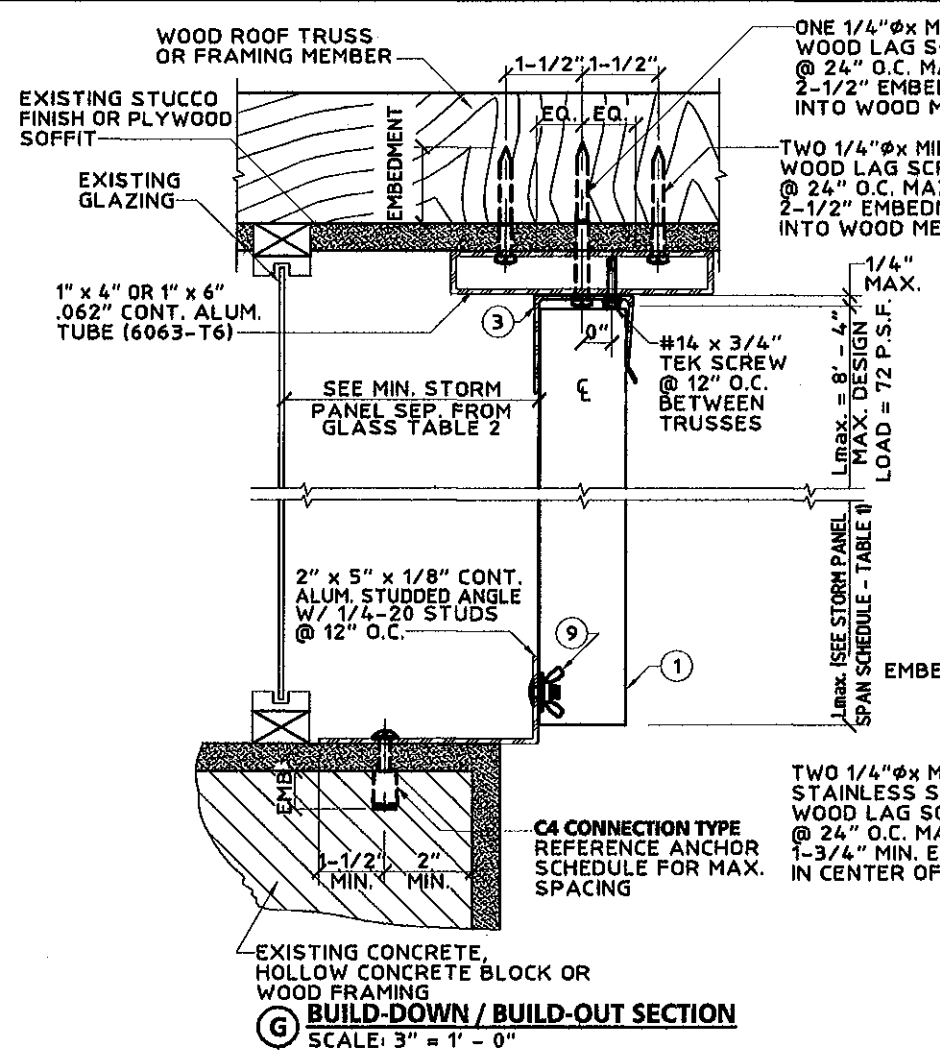
OCT 21 2011
 AS NOTED

09/01/2008

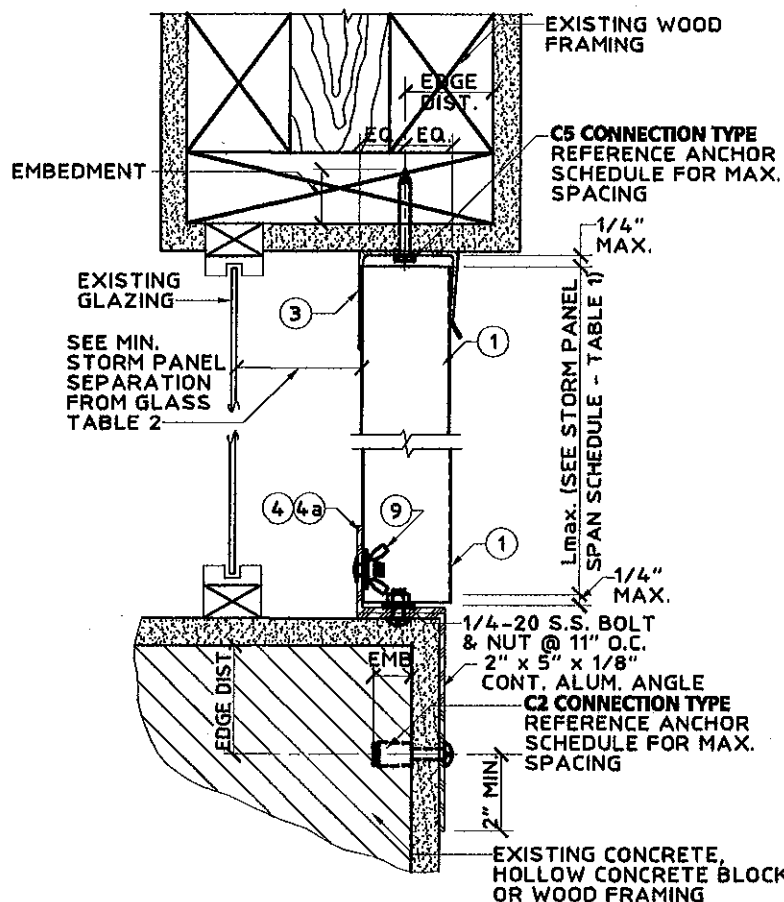
08-351

sheet 3 of 6

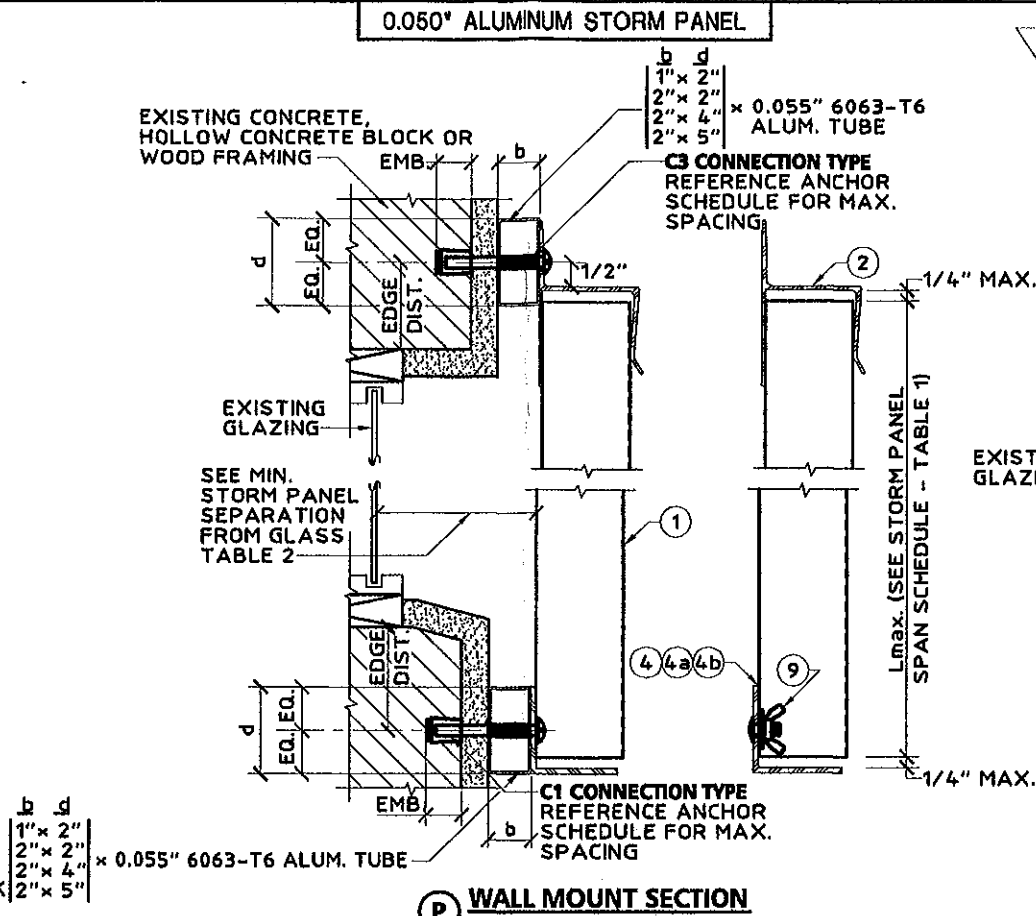
0.050" ALUMINUM STORM PANEL



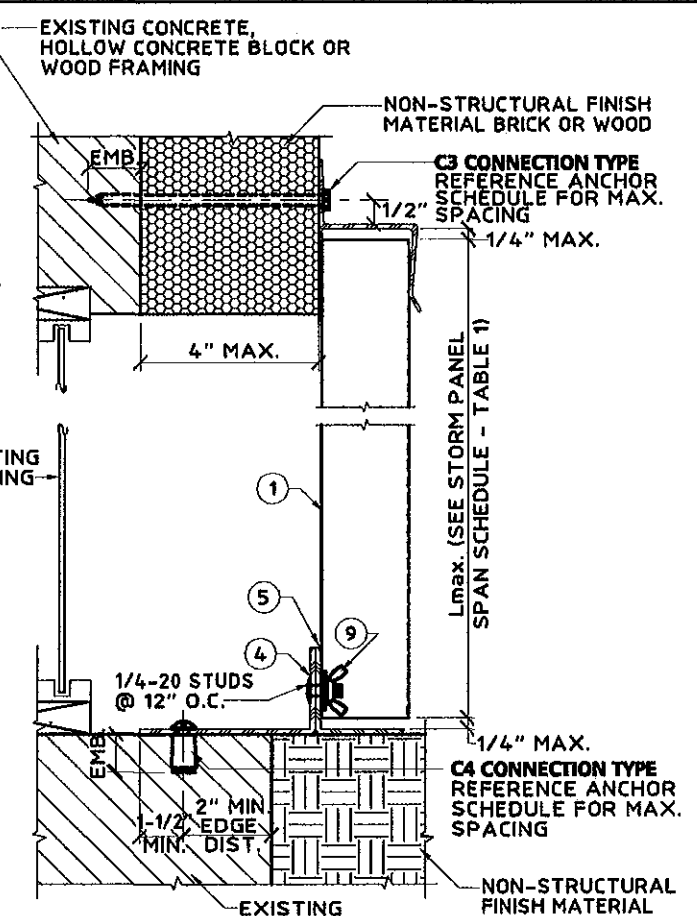
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 12-0406-08
 Expiration Date 11/16/2015
 By *[Signature]*
 Miami Dade Product Control



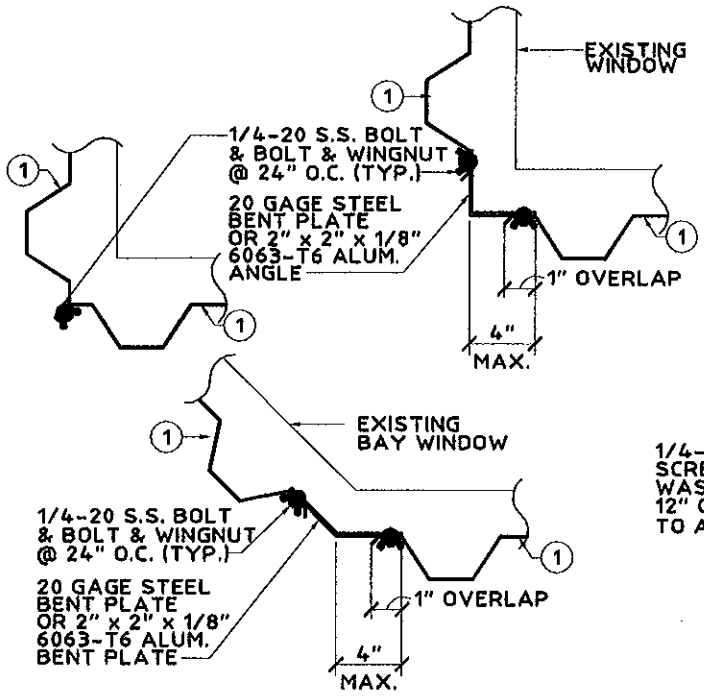
N WOOD CEILING/ INSIDE MOUNT SECTION
SCALE: 3" = 1'-0"



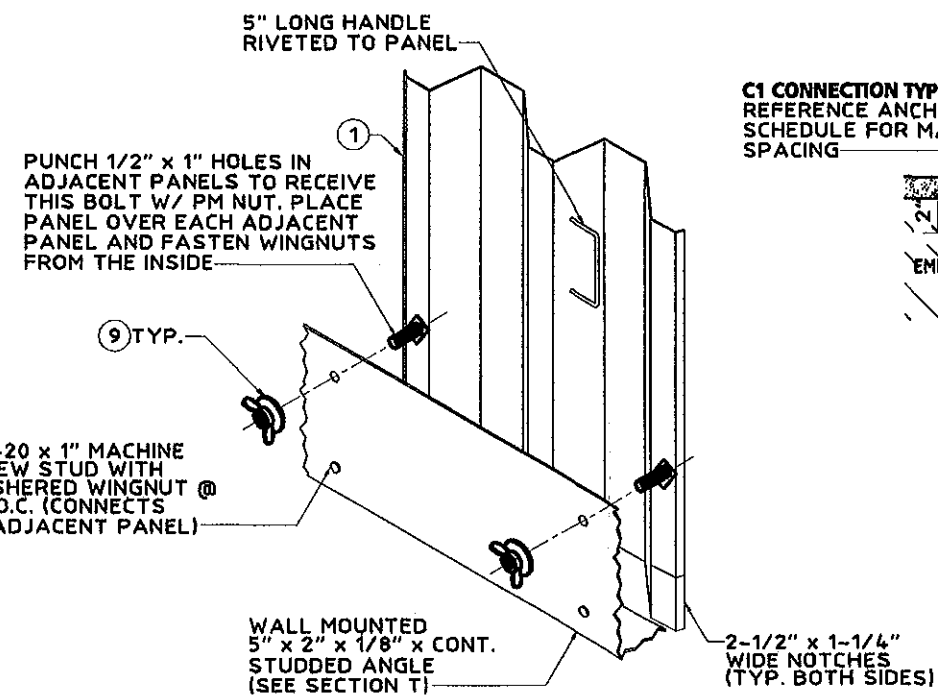
P WALL MOUNT SECTION
SCALE: 3" = 1'-0"



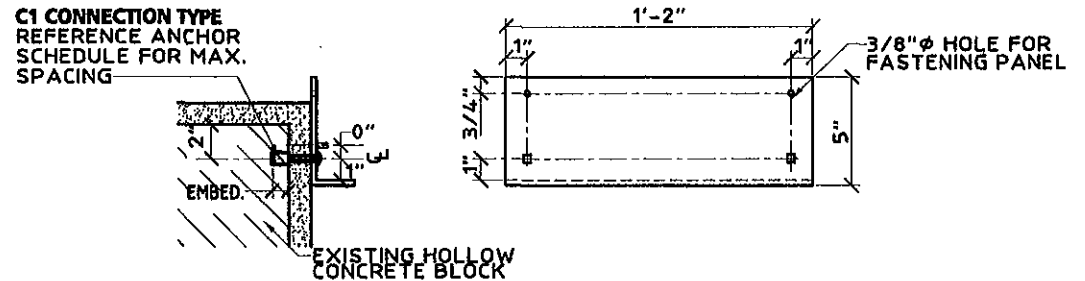
Q WALL MOUNT / BUILD OUT SECTION
SCALE: 3" = 1'-0"



R TYPICAL CORNER CLOSURE DETAILS (PLAN)
SCALE: 1-1/2" = 1'-0"



S OPTIONAL INTERIOR FASTENING DETAIL (ISOMETRIC)
N.T.S.



(MAX. PANEL HEIGHT = 7'-4" & MAX. DESIGN LOAD ±72.00 P.S.F.)

T INTERIOR FASTENING ANGLE ASSEMBLY
SCALE: 1-1/2" = 1'-0"

DETAILS (S) & (T) NOTE:
THESE DETAILS DEPICT THE CONNECTION OF THE LAST PANEL FOR AN OPENING WITH PANELS INSTALLED FROM INSIDE. USE OF THESE DETAILS SHALL BE IN CONJUNCTION WITH AN "H" HEADER OR "U" HEADER TOP MOUNT.

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No 12-04pb-08
Expiration Date 11/16/2015
By *[Signature]*
Miami Dade Product Control

KNEZEVICH ASSOCIATES
Consulting Engineers * COA 27989
2590 S.W. 105th Terrace * Davie, Florida 33324
T (954) 821-6933 * www.Knezevich-Associates.com
email: VJ@Knezevich-Associates.com

Town & Country
A Division of ABC Supply Co., Inc.
Wholesale Aluminum and Building Products
400 WEST MCNAB ROAD * FORT LAUDERDALE, FL 33309
PHONE 954.970.9999 * FAX 954.970.9988

revisions	description	date	by

V.J. Knezevich
Professional Engineer
License No. 22-0110893

[Signature]
OCT 21 2011

drawn by *[Signature]* scale AS NOTED
date 09/01/2008
drawing no. 08-351
sheet 4 of 6

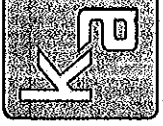
EXIST. STRUC.		ANCHOR TYPE		ANCHOR SCHEDULE																											
				FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																											
				SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 12'-0" (SEE NOTE 1)					SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 12'-0" (SEE NOTE 1)		
LOAD (W) P.S.F. MAX. (SEE NOTE 1)	CONNECTION TYPE (SEE NOTE 3)	MIN. 1" EDGE DISTANCE										MIN. 1 1/2" EDGE DISTANCE																			
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5					
1/4" ITW TAPCON W/ 1-3/4" MIN. EMBEDMENT	43.0	14	14	14	8	8	14	14	14	6	5	14	11	14	4	4	14	14	14	14	14	14	14	14	14	12	14	12	14	10	9
	50.0	14	14	14	7	6	14	14	14	5	4	14	8	14	3	3	14	14	14	14	14	14	14	14	12	10	14	9	14	9	7
	72.0	14	14	14	5	4	14	8	12	3	3	14	7	10	3	3	14	14	14	12	10	14	9	13	8	7	14	8	11	8	7
	84.0	14	11	14	4	4	14	7	10	3	3	14	7	10	3	3	14	13	14	10	9	14	8	11	8	7	14	8	11	8	7
	150.0	14	7	10	3	3	14	7	10	3	3	14	7	10	3	3	14	8	11	8	7	14	8	11	8	7	14	8	11	8	7
1/4" ELCO ULTRACON W/ 1-3/4" MIN. EMBEDMENT	43.0	14	14	14	14	12	14	14	14	9	8	14	10	14	7	6	14	14	14	14	14	14	14	14	14	12	14	10	14	10	8
	50.0	14	14	14	12	10	14	14	14	8	7	14	7	13	6	5	14	14	14	14	14	14	14	14	12	10	14	8	13	9	7
	72.0	14	14	14	8	7	14	7	11	5	5	14	6	9	5	4	14	14	14	12	10	14	7	11	8	7	14	6	9	8	6
	84.0	14	10	14	7	6	14	6	9	5	4	14	6	9	5	4	14	11	14	10	9	14	6	9	8	6	14	6	9	8	6
	150.0	14	6	9	5	4	14	6	9	5	4	14	6	9	5	4	14	6	9	8	6	14	6	9	8	6	14	6	9	8	6
* 1/4" ALL POINTS SOLID-SET ANCHOR WITH 7/8" EMBEDMENT & 1/4"-20 STAINLESS STEEL MACHINE SCREW	43.0	14	14	14	11	9	14	14	14	7	6	14	7	14	5	4	14	14	14	14	14	14	14	14	14	14	14	12	14	12	10
	50.0	14	14	14	9	8	14	10	14	6	5	13	5	9	4	4	14	14	14	14	14	14	14	14	14	12	14	9	14	11	9
	72.0	14	10	14	6	5	12	5	7	4	3	11	4	6	4	3	14	14	14	14	12	14	8	13	10	8	14	7	10	10	8
	84.0	14	7	14	5	4	11	4	6	4	3	11	4	6	4	3	14	12	14	13	10	14	7	10	10	8	14	7	10	10	8
	150.0	11	4	6	4	3	11	4	6	4	3	11	4	6	4	3	14	7	10	10	8	14	7	10	10	8	14	7	10	10	8

EXIST. STRUC.		ANCHOR TYPE		ANCHOR SCHEDULE																	
				FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																	
				SPANS UP TO 6'-0" (SEE NOTE 1)					SPANS UP TO 8'-8" (SEE NOTE 1)					SPANS UP TO 12'-0" (SEE NOTE 1)							
LOAD (W) P.S.F. MAX. (SEE NOTE 1)	CONNECTION TYPE (SEE NOTE 3)	MIN. 3/4" EDGE DISTANCE																			
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5					
1/4" x MIN. 2" LONG LAG SCREW W/ MIN. 2" EMBED. SHEAR PARALLEL OR PERP. TO WOOD GRAIN	43.0	14	14	14	14	14	14	14	14	11	10	14	14	14	8	7	14	14	14	14	14
	50.0	14	14	14	14	13	14	14	14	9	9	14	14	14	7	6	14	14	14	14	14
	72.0	14	14	14	10	9	14	12	14	6	6	14	11	14	6	5	14	11	14	6	5
	84.0	14	14	14	8	7	14	11	14	6	5	14	11	14	6	5	14	11	14	6	5
	150.0	14	11	14	6	6	14	11	14	6	5	14	11	14	6	5	14	11	14	6	5

ANCHOR NOTES:

- SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1.
- ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
- SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW CONCRETE BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
- MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
- DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.
- ALL POINTS SOLID SET AND POWERS CALK-IN ANCHORS MAY ONLY BE USED IN CONCRETE WALLS, HOLLOW CONCRETE BLOCK WALLS OR CONCRETE SLABS ON GRADE.
- FOR ELCO CREFLEX SS4, CONCRETE STRENGTH, Fc=3.5 KSI. FOR ITW TAPCON, CONCRETE STRENGTH, Fc=3.2 KSI. FOR ALL OTHERS CONCRETE STRENGTH, Fc<= 3 KSI.

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 12-0406-08
 Expiration Date 11/16/2015
 By *[Signature]*
 Miami Dade Product Control



KNEZEVICH ASSOCIATES
 Consulting Engineers • COA 27989
 2590 S.W. 105th Terrace • Davie, Florida 33324
 T (954) 821-6955 • www.knezevich-associates.com
 email: VJ@knezevich-associates.com
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Town & Country
 Wholesale Aluminum and Building Products
 A Division of ABC Supply Co., Inc.
 400 West McNab Road • Fort Lauderdale, FL 33309
 PHONE 954.970.9999 • FAX 954.970.9988

no	date	by	description
1			product revision change

V.J. Knezevich
 Professional Engineer
 FL License No. 186000783

OCT 21 2011

AS NOTED
 09/01/2008

08-351
 sheet 5 of 6

0.060" ALUMINUM STORM PANEL

TABLE	MINIMUM STORM PANEL SEPARATION FROM GLASS			
	POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SPAN (L) (FT - IN)	COLUMN 1 MIN. SEP. FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	COLUMN 2 MIN. SEP. FOR ALL INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
2	40.0	8-8	3	2-1/4
		10-6	5	3-3/8
	50.0	8-8	3	2-1/2
		9-10	5	3-1/4
	60.0	8-8	3	2-3/4
		9-5	5	3-1/4
	70.0	4-0	3	1-1/2
		8-8	3	3
		9-0	5	3-1/4
	80.0	4-0	3	1-1/2
		8-4	3	3
	90.0	4-0	3	1-1/2
		7-9	3	2-3/4
	100.0	4-0	3	1-1/2
		7-3	3	2-1/2
	110.0	4-0	3	1-1/2
		6-9	3	2-3/8
	120.0	3-0	3	1-1/2
		6-4	3	2-1/4

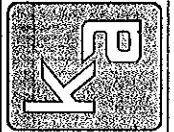
TABLE 1 NOTES:

1. DETERMINE BOTH THE POSITIVE AND THE NEGATIVE WIND LOADS, CHECK THEIR RESPECTIVE SPANS AND USE THE LESSER VALUE OF THE TWO.
2. FOR DESIGN LOADS BETWEEN TABULATED VALUES USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 2 NOTE:

1. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. STORM SHUTTER SEPARATION FROM GLASS.

TABLE	MAX. ALLOWABLE STORM PANEL SPAN SCHEDULE		
	POSITIVE OR NEGATIVE DESIGN LOAD (P.S.F.)	SPAN FOR NEG PRESSURE (FT - IN)	SPAN FOR POS PRESSURE (FT - IN)
1	40.0	12'-0"	10'-4"
	45.0	11'-3"	10'-1"
	50.0	10'-8"	9'-9"
	55.0	10'-2"	9'-6"
	60.0	9'-9"	9'-3"
	62.0	9'-7"	9'-1"
	65.0	9'-4"	8'-11"
	70.0	9'-0"	8'-7"
	72.0	8'-11"	8'-4"
	75.0	8'-8"	8'-0"
	80.0	8'-3"	7'-6"
	90.0	7'-4"	6'-8"
	100.0	6'-7"	6'-0"
	110.0	6'-0"	5'-5"
	120.0	5'-6"	5'-0"
	130.0	5'-1"	4'-7"
	140.0	4'-8"	4'-3"
	150.0	4'-4"	4'-0"



KNEZEVICH ASSOCIATES
 Consulting Engineers * COA 27989
 2590 S.W. 105th Terrace * Davie, Florida 33324
 T (954) 821-6933 * www.knezevich-associates.com
 email: VJ@Knezevich-Associates.com
 Copyright © 2011 V.Knezevich & Associates, LLC db/a Knezevich Associates

Town & Country
 Wholesale Aluminum and Building Products
 A Division of ABC Supply Co., Inc.
 400 WEST MCNAB ROAD * FORT LAUDERDALE, FL 33309
 PHONE 954-970-9999 * FAX 954-970-9988

no	date	by	description
1	09/01/2011	VJK	REVISIONS

V.J. Knezevich
 Professional Engineer
 FL License No. 05290983

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