MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908
www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

EZ Home Improvements, Inc.
18505 SW 104th Avenue (Bay #7)
Miami, Florida 33157

SCOPE:
This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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: HT-100 / Aluminum Accordion Shutter

APPROVAL DOCUMENT: Drawing No. 05-341, titled "HT-100 Aluminum Accordion Shutter", sheets 1 through 7 of 7, prepared by Thornton-Tomasetti Group, dated 10/17, 2002, last revision #2 dated 12/20/2004, signed and sealed by V. J. Knezevich, P.E., bearing the Miami-Dade County Product Control Approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", 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 consists of this page 1, evidence submitted page(s) as well as approval document mentioned above.
The submitted documentation was reviewed by **Helmy A. Makar, P.E.**

Helmy A. Makar
06/23/2005

NOA No 05-0524.01
Expiration Date: 06/23/2010
Approval Date: 06/23/2005

EZ Home Improvements, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 05-341, titled "HT-100 Aluminum Accordion Shutter", sheets 1 through 7 of 7, prepared by Thornton-Tomasetti Group, dated 10/17/02, last revision #2 dated 12/20/2004, signed and sealed by V. J. Knezevich, P.E. on 04/14/2005.*

B. TESTS

1. *See Association's generic approval under 02-0799.*

C. CALCULATIONS

1. *See Association's generic approval under 02-0799.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

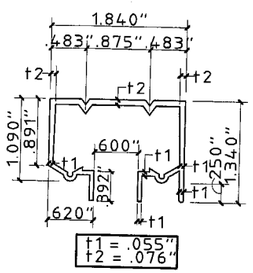
1. *See Association's generic approval under 02-0799.*

F. STATEMENTS

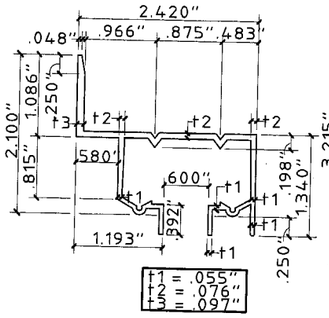
1. *Release letter issued by Hi-Tech Shutter Group, Inc., dated April 14, 2005, certifying this product to meet the criteria of product tested and approved, and allowing EZ Home Improvements, Inc. to use the test results approved under Miami-Dade County Approval No. 02-0799, signed by Frank S. Cornelius.*
2. *Acknowledgment letter by Home Improvements, Inc., dated April 18, 2005, signed by Elmer Zimbelmann.*
3. *Statement letter of conformance by Thornton-Tomasetti Group, dated April 14, 2005, certifying that the drawing (No. 05-341) prepared for Home Improvements, Inc., signed and sealed by Mr. V. J. Knezevich, P.E.., is engineering wise identical to* Hi-*Tech Shutter Group, Inc. generic drawing (No. 02-458).*

Helmy A. Makar, P. E.
Product Control Examiner
NOA No 05-0524.01
Expiration Date: 06/23/2010
Approval Date: 06/23/2005

Print Information: \\hurricane\ka\Cadd\Associations\Hi-Tech\EZ_Home\05-341\R2-sub\05-341-01.dwg MCantu 04/14/2005 02:54:30pm 04/14/05 14:50



1 HEADER-CLG. MOUNTED
SCALE: HALF SIZE



2 HEADER-WALL MOUNTED
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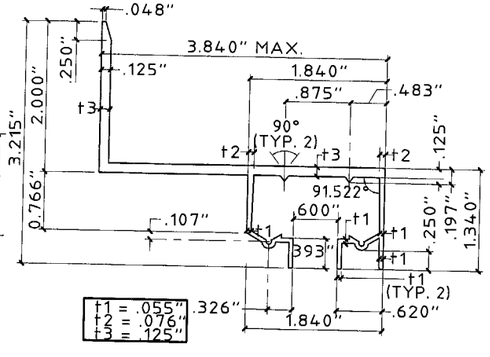
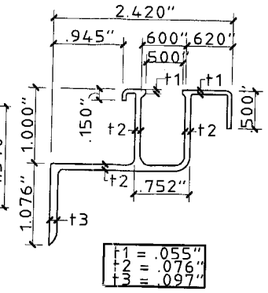
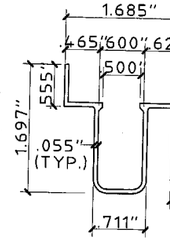


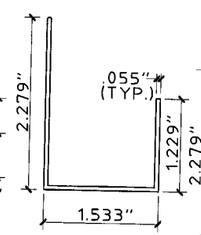
2a BUILD-OUT WALL HEADER
SCALE: HALF SIZE



3 SILL-WALL MOUNTED
SCALE: HALF SIZE



4 ADJ. SILL-TOP
SCALE: HALF SIZE



5 ADJ. SILL-BOT.
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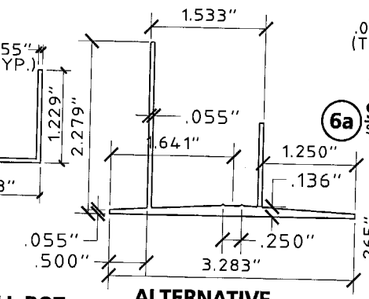
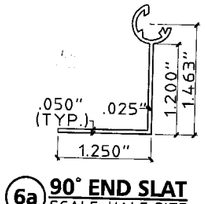
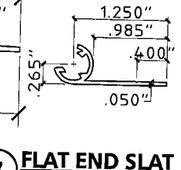


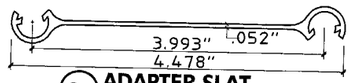
5a ALTERNATIVE ADJ. SILL-BOT.
SCALE: HALF SIZE



6a 90° END SLAT
SCALE: HALF SIZE



7 FLAT END SLAT
SCALE: HALF SIZE



8a ADAPTER SLAT
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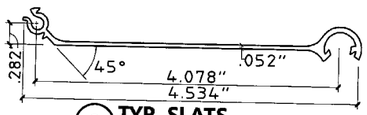

8 TYP. SLATS
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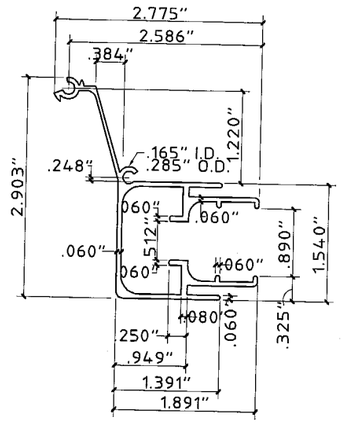
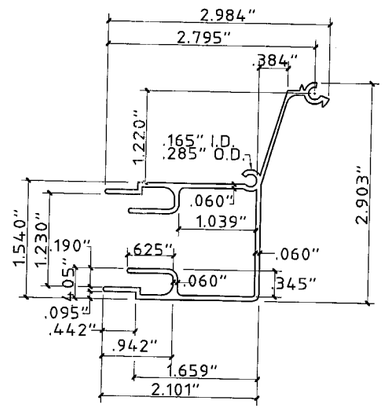


9 CENTER MATE 1
SCALE: HALF SIZE



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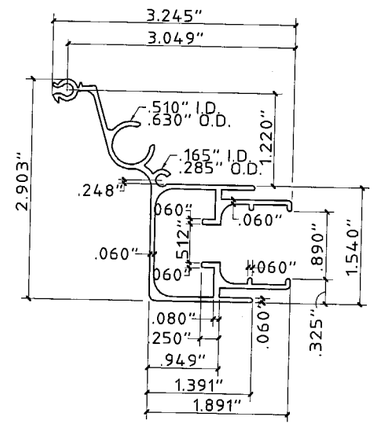
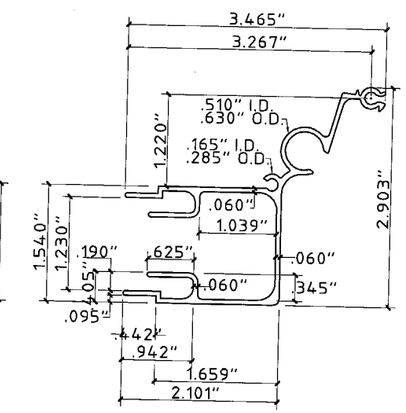


9a CENTER MATE 1 (W/ LOCKING ROD)
SCALE: HALF SIZE



10a CENTER MATE 2 (W/ LOCKING ROD)
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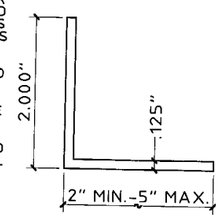
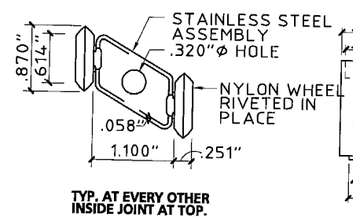
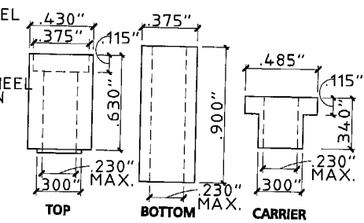


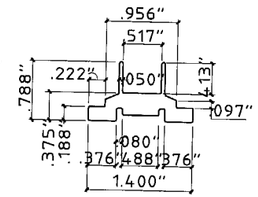
11 ANGLE
SCALE: HALF SIZE



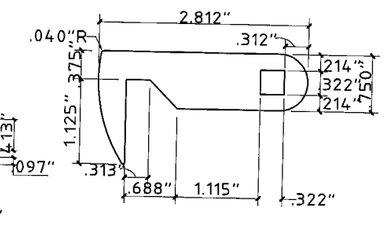
12 ROLLER ASSEMBLY
SCALE: HALF SIZE



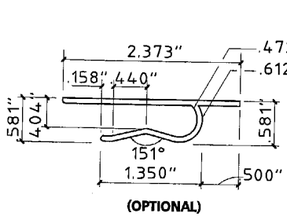
12a BUSHINGS
SCALE: FULL SIZE



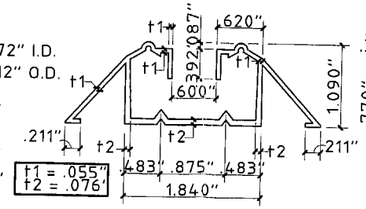
13 INSERT
SCALE: HALF SIZE



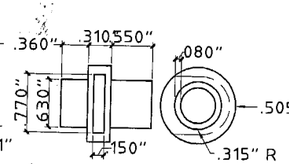
14 LOCKING ARM
SCALE: HALF SIZE



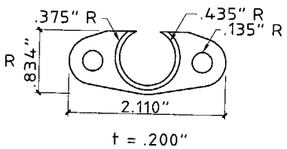
15 LOCKING CLIP
SCALE: HALF SIZE



16 WALKOVER SILL FLOOR MOUNTED
SCALE: HALF SIZE



17 LOCKING ARM ALIGNMENT BUSHING (NYLON)
SCALE: HALF SIZE



18 INSIDE HANDLE SHIM (NYLON)
SCALE: HALF SIZE

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 FLORIDA BUILDING CODE, 2001 WITH 2002 AND 2003 REVISIONS.
2. TO VERIFY THAT THE ANCHORS AS TESTED, ARE NOT OVERSTRESSED IN THESE APPROVAL DOCUMENTS, NO INCREASE IN ALLOWABLE STRESS WAS USED IN THE FASTENER ANALYSIS.
3. DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2001 WITH 2002 AND 2003 REVISIONS A DIRECTIONALITY FACTOR OF Kd =0.85 SHALL BE USED.
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.

   WHEN THE SITE CONDITION DEVIATIONS OCCUR WITHIN THE HIGH VELOCITY HURRICANE ZONE AREAS, ONLY OPTION "B" SHALL BE ACCEPTED BY THE BUILDING OFFICIAL.
9. EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:

   EZ HOME IMPROVEMENTS
   MIAMI, FLORIDA
   MIAMI-DADE COUNTY PRODUCT APPROVED
10. ALL SHUTTERS SHALL HAVE A LOCKING MECHANISM AT CENTER OR SIDE CLOSURE WITHIN 18" OF CENTER (VERT.). LOCKING MECHANISM SHALL BE LOCKED TO PROVIDE HURRICANE PROTECTION.
11. STORM SHUTTER EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.
12. ALL SCREWS AND BOLTS TO BE 2024-T4 ALUMINUM ALLOY, STAINLESS STEEL, OR GALVANIZED STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS TO BE 3/16"Ø, 5052 ALUM. ALLOY, U.O.N.
13. TOP AND BOTTOM DETAILS MAY BE INTERCHANGED AS FIELD CONDITIONS REQUIRE.
14. FLOOR TRACKS MAY BE REMOVABLE AT NON-STACKING LOCATIONS. USE REMOVABLE ANCHORS SUCH AS POWERS CALK-IN ANCHORS.
15. THIS SHUTTER SYSTEM IS PATENTED WITH THE U.S. PATENT AND TRADEMARK OFFICE, PATENT No. 5,755,270.

Thornton-Tomasetti Group
330 N. Andrews Ave., Suite 450 • Ft. Lauderdale, FL 33301
Tel. (954) 522-3690 • Fax (954) 522-3691 • COA # 7519
Website: www.TheTTGroup.com
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HT100 LICENSED BY HI-TECH SHUTTER GROUP, INC.

HT-100 ALUMINUM ACCORDION SHUTTER

EZ HOME IMPROVEMENTS
18505 S.W. 104TH AVENUE, BAY 7
MIAMI, FL 33157
PHONE: 305-235-6562
FAX: 305-235-6301

V.J. Knezevich
Professional Engineer
FL License No.: PE 0010983

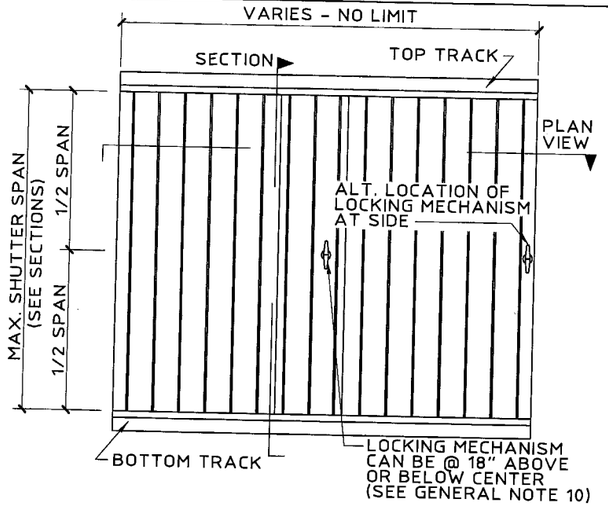
APR 14 2005

revisions			
no	date	by	description
1	12/04/02	VJK	COUNTY COMMENTS
2	12/20/04	VJK	DETAIL G ANCHOR TYPE

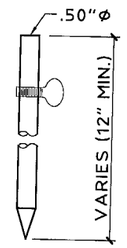
HTSG I.D. # 0541402458D

Approved as complying with the Florida Buiding Code
Date 06/23/2005
NOA# 05-0524.01
Miami Dade Product Control Division
By Helena A. Melton

date	10/17/2002
scale	AS NOTED
drawn by	MCR
design by	VJK
checked by	VJK
drawing no.	05-341
sheet	1 of 7

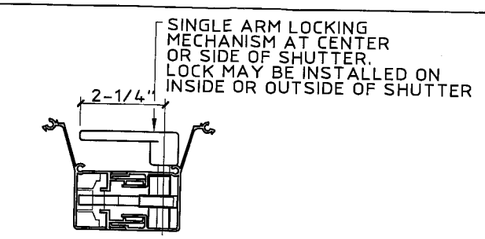


TYPICAL ELEVATION
N.T.S.

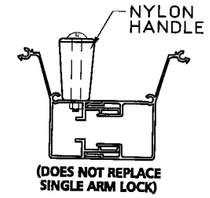


USED WITH PIECES 9a AND 10a

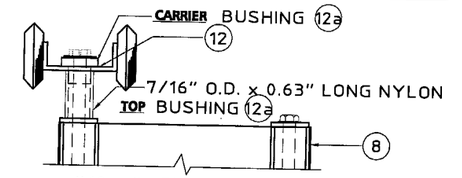
LOCKING PIN
SCALE: 1-1/2" = 1'-0"



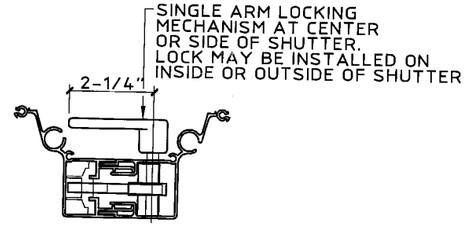
SINGLE ARM LOCK
N.T.S.



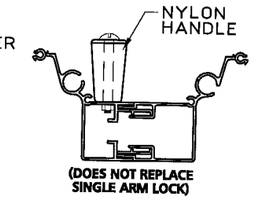
OPTIONAL CLOSER HANDLE
N.T.S.



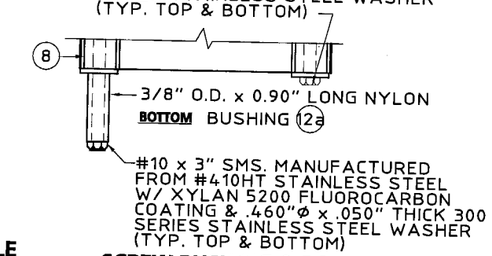
#10 x 2" SMS. MANUFACTURED FROM #410HT OR 18-8 STAINLESS W/ XYLAN 5200 FLUOROCARBON STEEL W/ XYLAN 5200 FLUOROCARBON COATING & .460"Ø x .050" THICK 300 SERIES STAINLESS STEEL WASHER (TYP. TOP & BOTTOM)



SINGLE ARM LOCK
N.T.S.

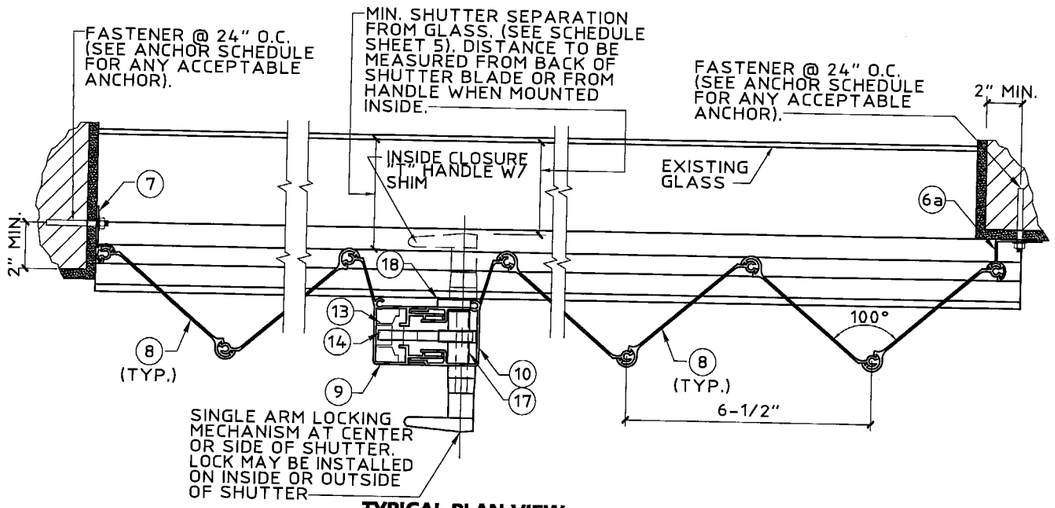


OPTIONAL CLOSER HANDLE
N.T.S.

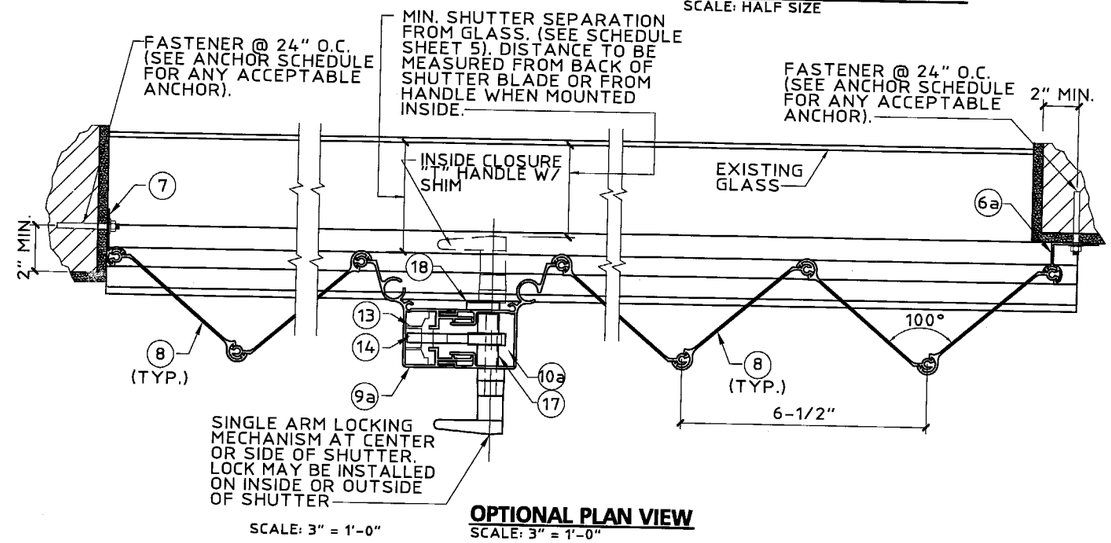


#10 x 3" SMS. MANUFACTURED FROM #410HT STAINLESS STEEL W/ XYLAN 5200 FLUOROCARBON COATING & .460"Ø x .050" THICK 300 SERIES STAINLESS STEEL WASHER (TYP. TOP & BOTTOM)

SCREW BUSHING & ROLLER/ BUSHING ASSEMBLY
SCALE: HALF SIZE

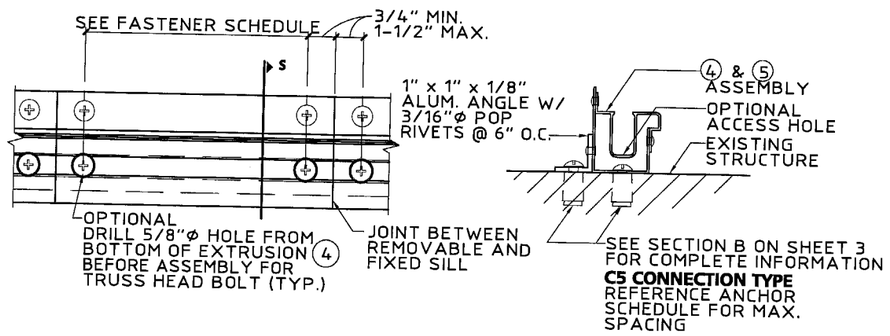


TYPICAL PLAN VIEW
SCALE: 3" = 1'-0"



SCALE: 3" = 1'-0"

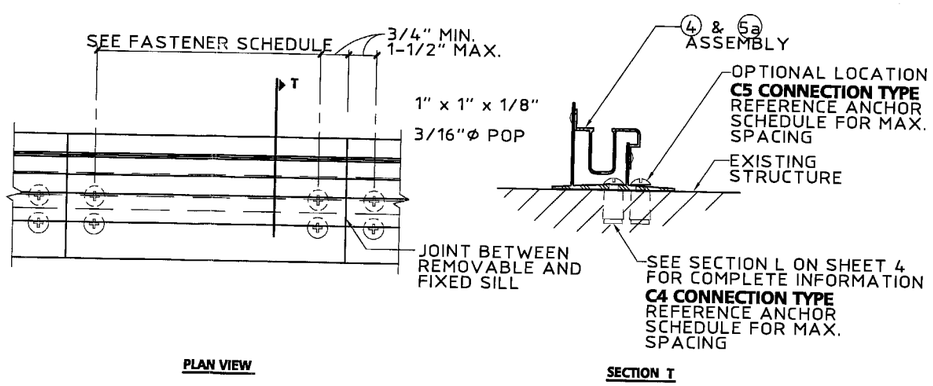
OPTIONAL PLAN VIEW
SCALE: 3" = 1'-0"



PLAN VIEW

SECTION S

REMOVABLE FLOOR TRACK DETAIL
SCALE : 3"= 1'- 0"



PLAN VIEW

SECTION T

OPTIONAL REMOVABLE FLOOR TRACK DETAIL
SCALE : 3"= 1'- 0"

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Date 06/23/2005
NOA# 05-0524.01
Miami Dade Product Control Division
By Helmy A. Mahfouz

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APR 14 2005

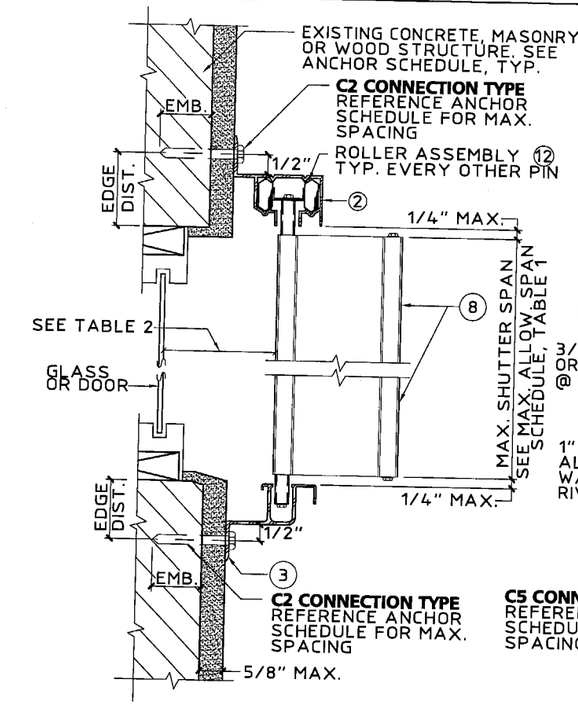
revisions

no	date	by	description
1	12/04/02	VJK	COUNTY COMMENTS
2	12/20/04	VJK	DETAIL G ANCHOR TYPE

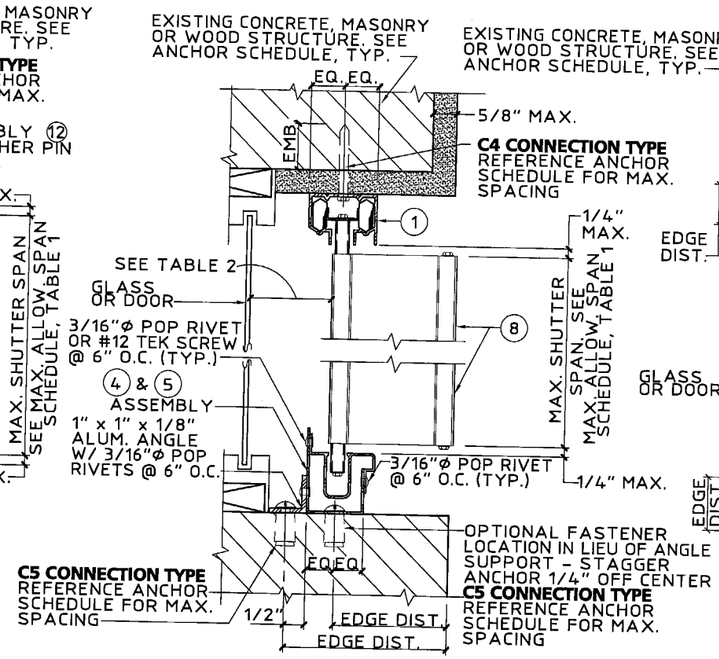
HTSG I.D. # 0541402458D

date	10/17/2002
scale AS NOTED	drawn by MCR
design by VJK	checked by VJK
drawing no.	05-341
sheet 2 of 7	

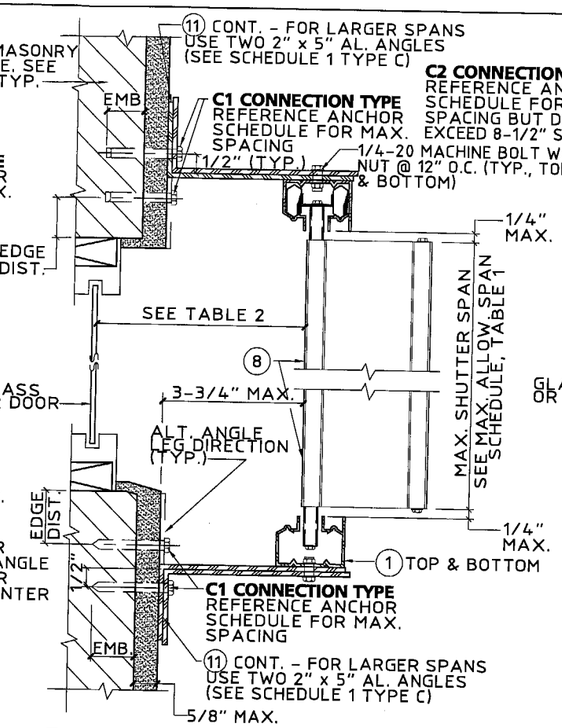
Print Information: \\hurricane\ka\Cadd\Associations\Hi-Tech\EZ_Home\05-341\R2-sub\05-341-02.dwg MCantu 04/14/2005 02:54:38pm 04/14/05 14:50



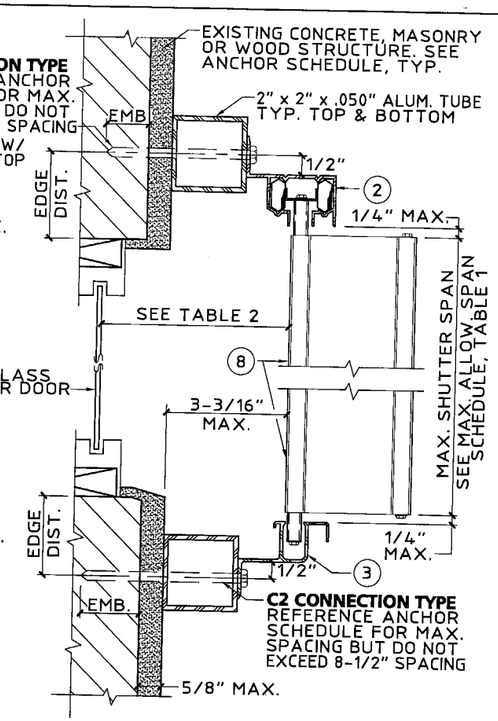
(A) **WALL MOUNT SECTION**
SCALE: 3" = 1'-0"



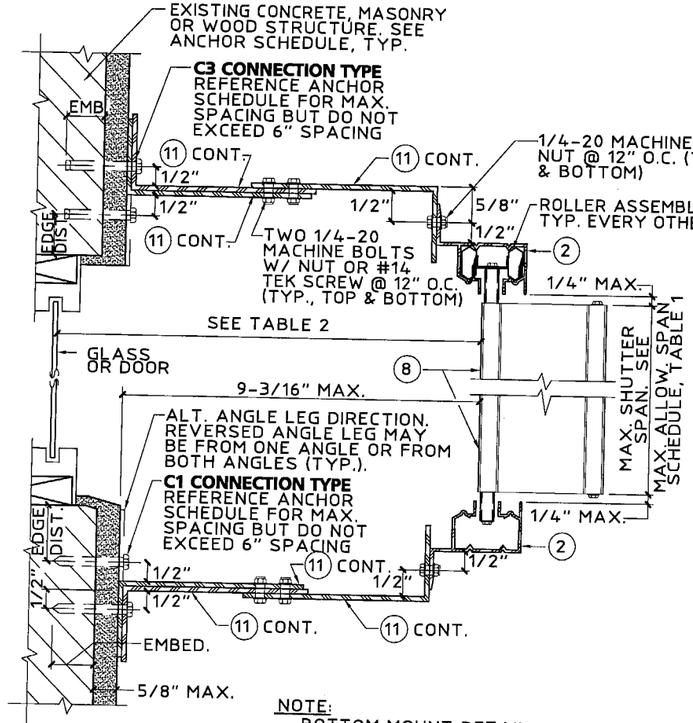
(B) **CEILING/INSIDE MOUNT SECTION**
SCALE: 3" = 1'-0"



(C) **BUILD-OUT MOUNT SECTION**
SCALE: 3" = 1'-0"

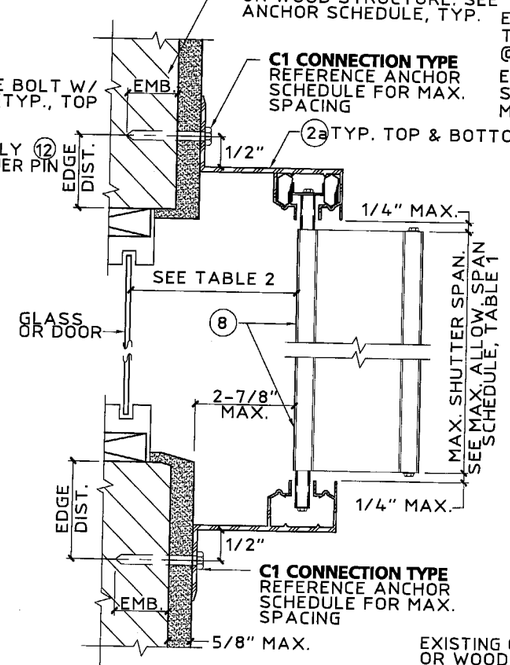


(D) **BUILD-OUT MOUNT SECTION**
SCALE: 3" = 1'-0"

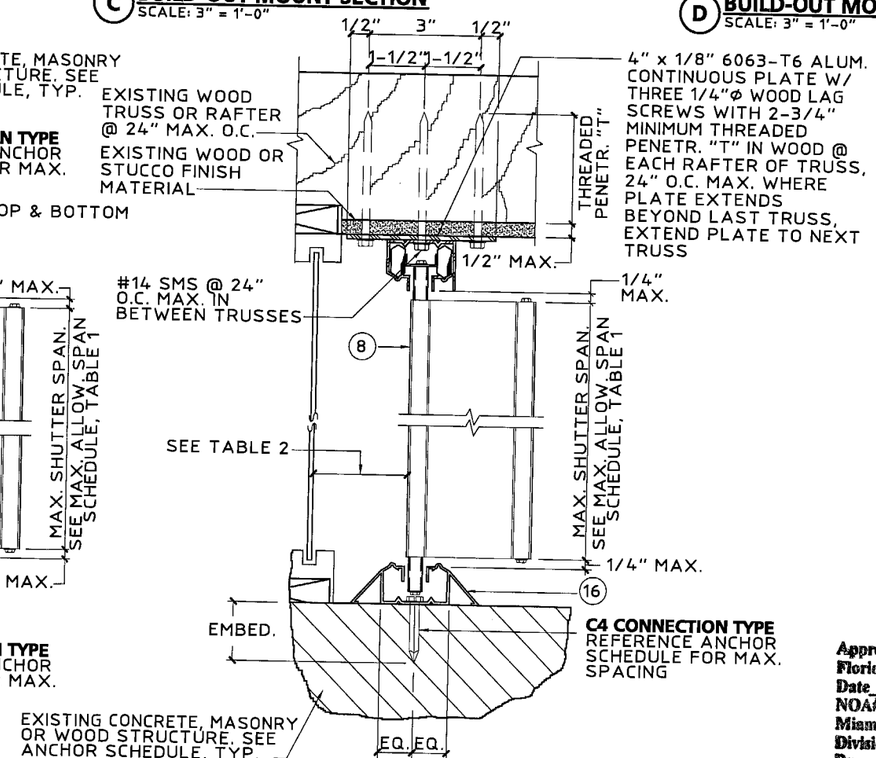


NOTE:
BOTTOM MOUNT DETAIL MAY BE USED AT TOP.

(E) **BUILD-OUT MOUNT SECTION**
SCALE: 3" = 1'-0"



(F) **BUILD-OUT MOUNT SECTION**
SCALE: 3" = 1'-0"



(G) **WOOD SOFFIT / FLOOR MOUNT SECTION**
SCALE: 3" = 1'-0"

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no	date	by	description
1	12/04/02	VJK	COUNTY COMMENTS
2	12/20/04	VJK	DETAIL G ANCHOR TYPE

HTSG I.D. # 0541402458D

date 10/17/2002
scale AS NOTED
drawn by MCR
design by VJK
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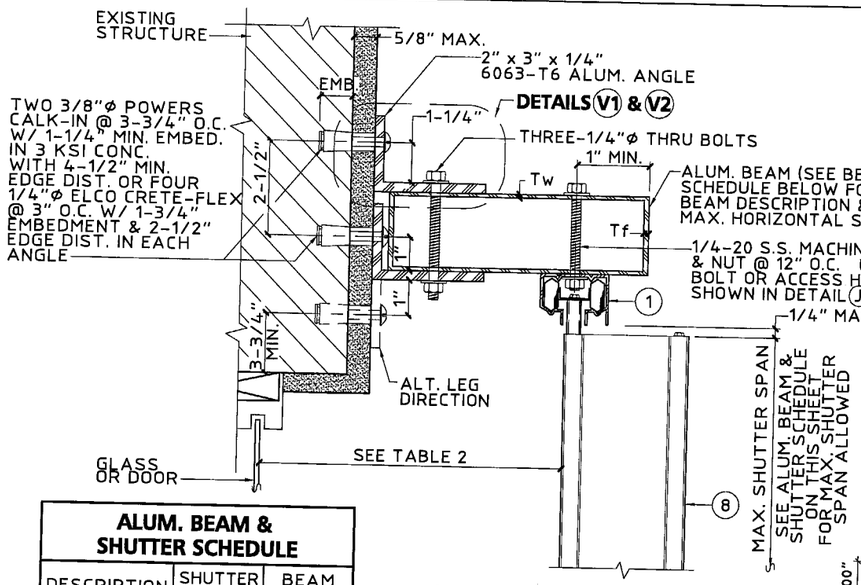
drawing no. 05-341
sheet 3 of 7

Print Information: \\hurricane\ka\Cadd\Associations\Hi-Tech\EZ_Home\05-341\R2-sub\05-341-03.dwg MCantu 04/14/2005 02:54:45pm 04/14/05 14:50

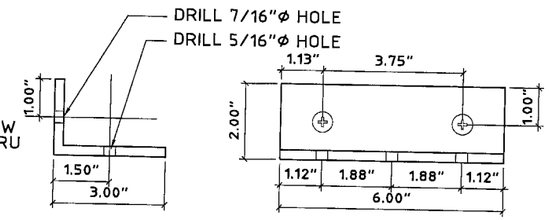


(MAX. DESIGN LOAD ± 72 PSF)

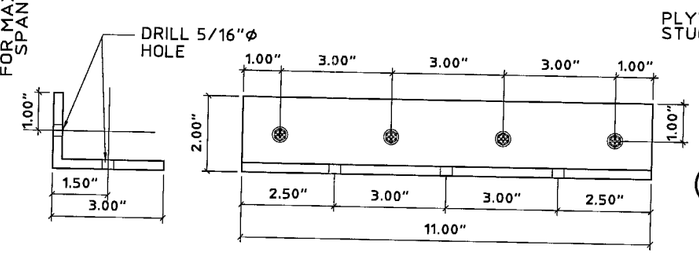
H TOP SUPPORT BEAM DETAIL
SCALE: 3" = 1'-0"

ALUM. BEAM & SHUTTER SCHEDULE		
DESCRIPTION	SHUTTER SPAN	BEAM SPAN
2" x 5" Tw = .125" Tf = .125"	5'-0"	9'-5"
	8'-0"	8'-1"
	10'-0"	7'-6"
2" x 8" Tw = .072" Tf = .224"	5'-0"	14'-0"
	8'-0"	11'-6"
	10'-0"	10'-4"
2" x 9" Tw = .072" Tf = .224"	5'-0"	15'-5"
	8'-0"	12'-5"
	10'-0"	11'-2"

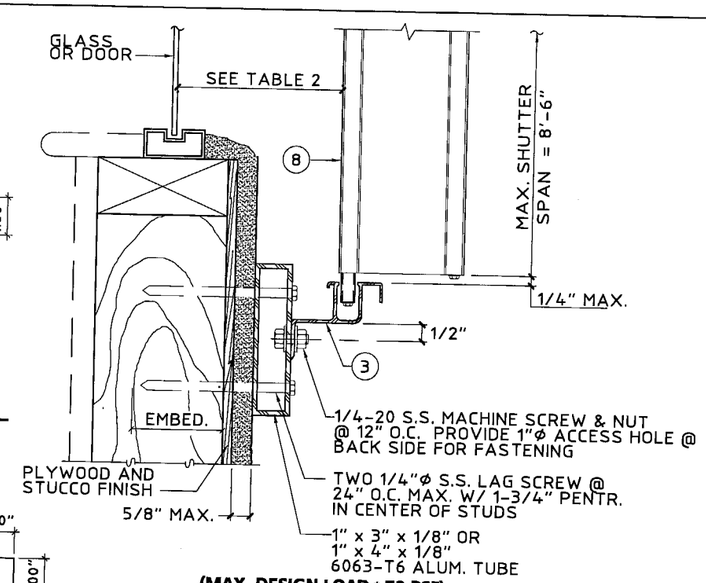
NOTE:
1. USE BEAM SCHEDULE FOR DETAILS H AND J.
2. SHUTTER SPAN TO BE LIMITED TO THOSE SHOWN IN TABLE, SHEET 5.
3. BEAM SPAN SHALL BE CONSIDERED AS THE DISTANCE FROM ℄ OF SUPPORT TO ℄ OF SUPPORT.



V1 ANGLE DETAIL USING CALK-IN ANCHOR
SCALE : 3"= 1'- 0"

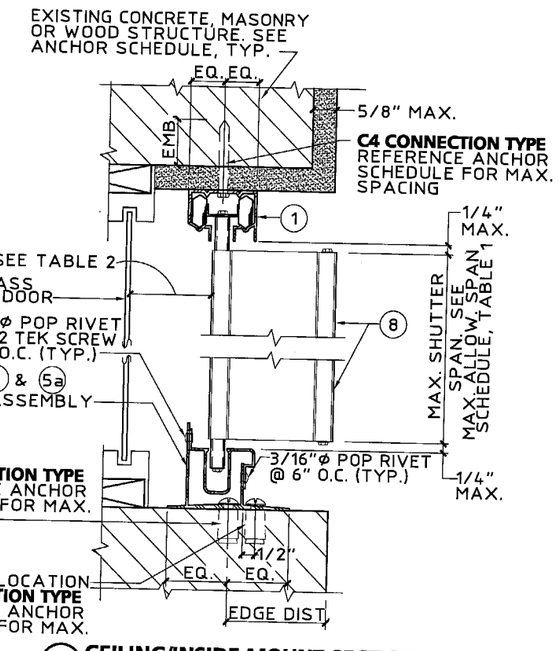


V2 ANGLE DETAIL USING CRETE-FLEX ANCHOR
SCALE : 3"= 1'- 0"

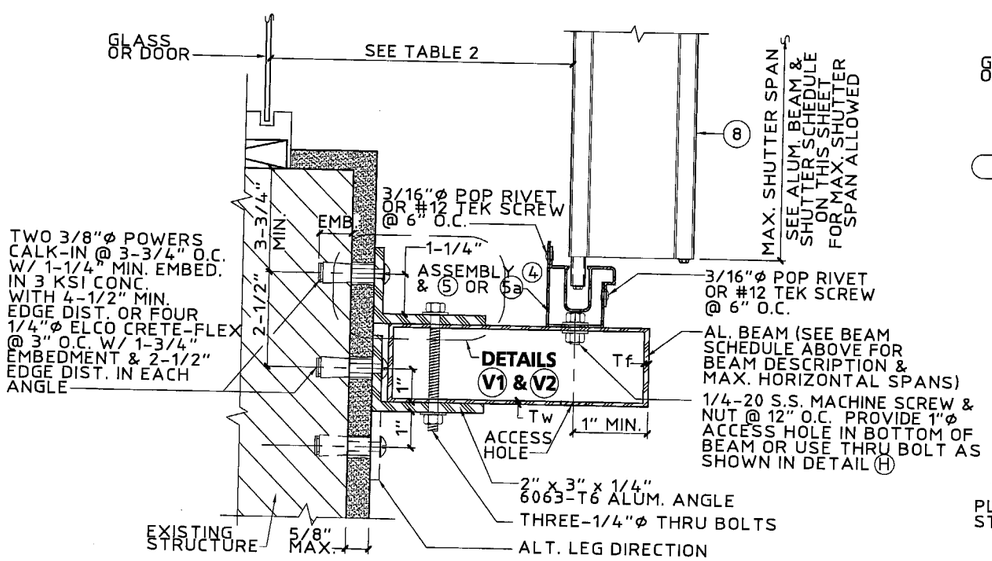


(MAX. DESIGN LOAD ± 72 PSF)

I WALL MOUNT SECTION - USING ALUM. TUBE
SCALE: 3" = 1'-0"

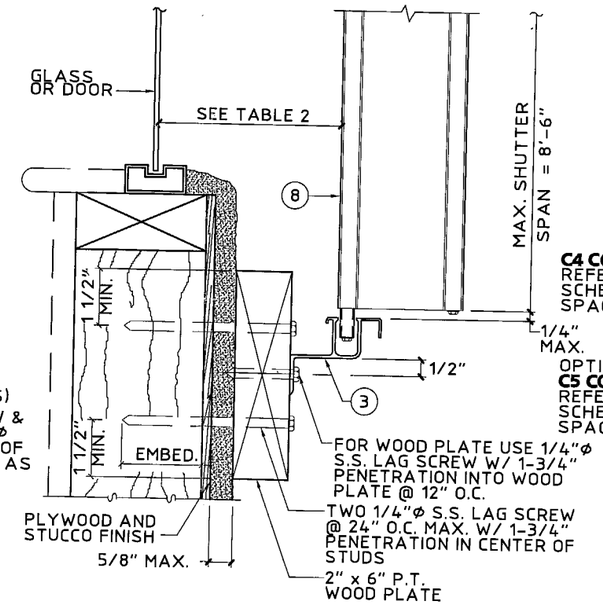


L CEILING/INSIDE MOUNT SECTION
SCALE: 3" = 1'-0"



(MAX. DESIGN LOAD ± 72 PSF)

J BOTTOM SUPPORT BEAM DETAIL
SCALE: 3" = 1'-0"



(MAX. DESIGN LOAD ± 72 PSF)

K WALL MOUNT SECTION - USING 2" x 6" P.T. WOOD PLATE
SCALE: 3" = 1'-0"

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By Helmy A. Mekar

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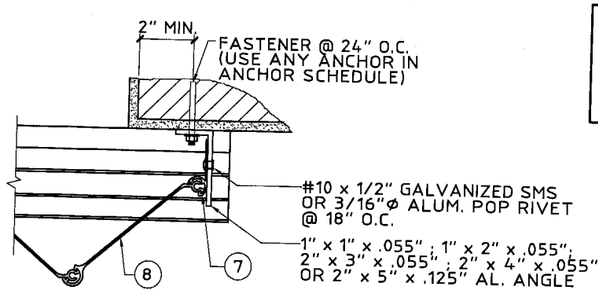
no	date	by	description
1	12/04/02	VJK	COUNTY COMMENTS
2	12/20/04	VJK	DETAIL G ANCHOR TYPE

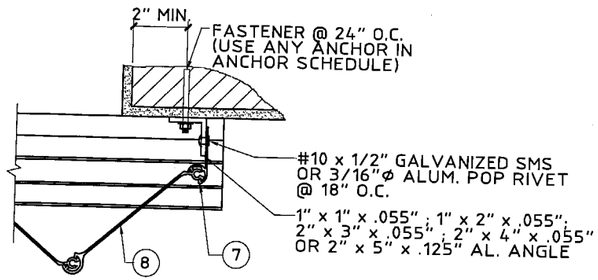
HTSG I.D. # 0541402458D

date 10/17/2002	
scale AS NOTED	drawn by MCR
design by VJK	checked by VJK
drawing no. 05-341	
sheet 4 of 7	

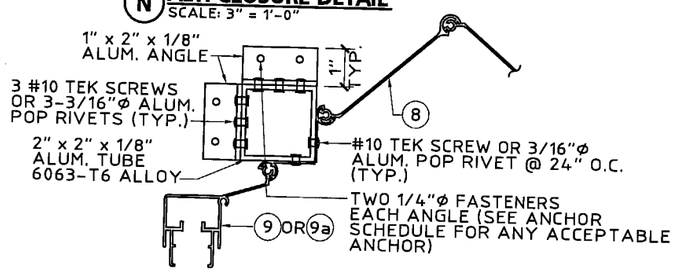
Print Information: \\hurricane\ka\Cadd\Associations\Hi-Tech\EZ_Home\05-341\R2-sub\05-341-04.dwg MCantu 04/14/2005 02:54:53pm 04/14/05 14:50



(M) ALT. CLOSURE DETAIL
SCALE: 3" = 1'-0"

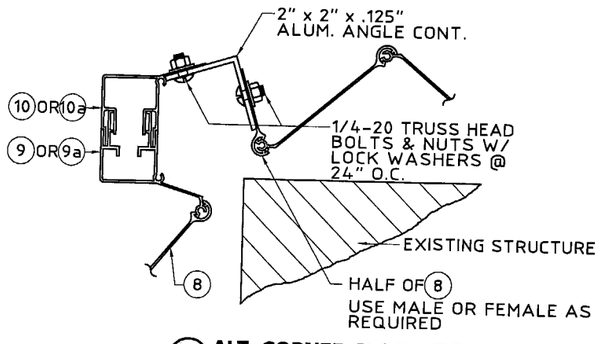


(N) ALT. CLOSURE DETAIL
SCALE: 3" = 1'-0"



NOTE:
EITHER CONDITION MAY BE TYPICAL FOR EITHER SIDE

(P) CORNER CLOSURE DETAIL
SCALE: 3" = 1'-0"



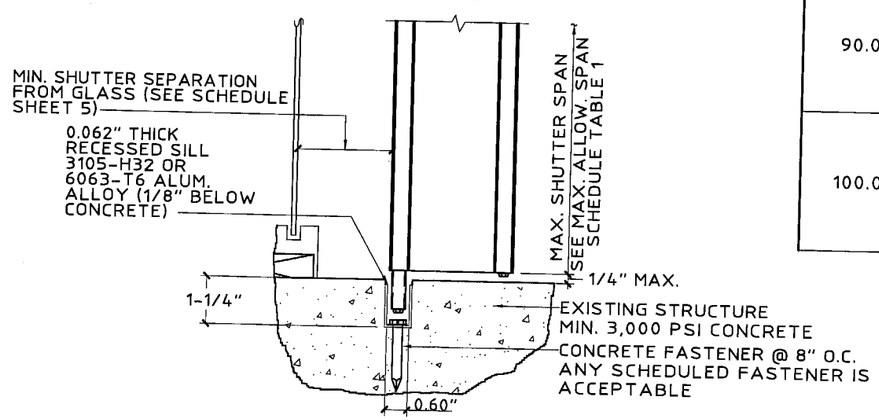
(Q) ALT. CORNER CLOSURE DETAIL
SCALE: 3" = 1'-0"

TABLE 1 — MAXIMUM ALLOWABLE SPAN SCHEDULE

NEG. DESIGN LOAD (PSF)	TYPE A ALL MOUNTING CONDITIONS EXCEPT Ⓒ Ⓔ Ⓕ (FT - IN)	TYPE B DETAIL Ⓕ OR DETAIL Ⓒ W/ SINGLE ANGLE REQUIRED 3-3/4" MAX. B.O. (FT - IN)	TYPE C DETAIL Ⓒ DOUBLE ANGLE REQUIRED 3-3/4" MAX. B.O. (FT - IN)	TYPE D DETAIL Ⓔ 9-3/16" MAX. B.O. (FT - IN)
30.0	13 - 1	12 - 4	13 - 1	12 - 7
38.0	13 - 1	11 - 0	13 - 1	11 - 2
40.0	12 - 11	10 - 8	12 - 5	10 - 11
48.0	12 - 4	9 - 9	10 - 4	10 - 0
52.0	12 - 1	9 - 4	9 - 7	9 - 7
56.0	11 - 11	9 - 0	9 - 0	9 - 3
61.5	11 - 7	8 - 7	8 - 7	8 - 10
63.3	11 - 6	8 - 6	8 - 6	8 - 8
66.8	10 - 11	8 - 3	8 - 3	8 - 5
67.5	10 - 9	8 - 3	8 - 3	8 - 5
71.2	10 - 3	8 - 0	8 - 0	8 - 2
75.0	9 - 8	7 - 8	7 - 8	8 - 0
81.4	8 - 11	7 - 0	7 - 0	7 - 4
86.8	8 - 5	6 - 7	6 - 7	6 - 10
91.4	8 - 0	6 - 3	6 - 3	6 - 6
100.0	7 - 3	5 - 9	5 - 9	6 - 0
110.0	6 - 7	5 - 2	5 - 2	5 - 5
120.0	6 - 1	4 - 9	4 - 9	5 - 0
130.0	5 - 7	4 - 5	4 - 5	4 - 7
140.0	5 - 2	4 - 1	4 - 1	4 - 3
150.0	4 - 10	3 - 10	3 - 10	4 - 0
160.0	4 - 6	3 - 7	3 - 7	3 - 9
170.0	4 - 3	3 - 4	3 - 4	3 - 6

NOTES:

1. REFERENCE APPROPRIATE COLUMN IN TABLE 1 BASED ON MOUNTING CONDITION IN FIELD.
2. FOR DESIGN LOADS BETWEEN TABULATED VALUES, USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.
3. ENTER TABLE 1 WITH NEGATIVE DESIGN LOAD TO DETERMINE MAX. SHUTTER SPAN.
4. ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. SHUTTER SEPARATION FROM GLASS.



(R) ALTERNATE FLOOR MOUNT DETAIL
SCALE: 3" = 1'-0"

TABLE 2 — MINIMUM SHUTTER SEPARATION FROM GLASS (IN)

POSITIVE DESIGN LOAD (W) (PSF)	ACTUAL SPAN (FT - IN)	MINIMUM SEPARATION FROM GLASS FOR INSTALLATIONS LESS THAN OR EQUAL TO 30' ABOVE GRADE (INCHES)	MINIMUM SEPARATION FROM GLASS FOR INSTALLATIONS GREATER THAN 30' ABOVE GRADE (INCHES)
30.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-5/8
	8 - 0	2-7/8	1-5/8
	11 - 0	3	2-1/8
	13 - 1	3-3/4	2-3/4
40.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-5/8
	8 - 0	2-7/8	1-5/8
	11 - 0	3	2-1/4
	12 - 11	3-3/4	3
50.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-5/8
	8 - 0	2-7/8	1-3/4
	11 - 0	3	2-1/2
	12 - 2	3-3/4	3
60.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-5/8
	8 - 0	2-7/8	1-3/4
	11 - 0	3	1-3/4
	11 - 8	3-3/4	3
70.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-5/8
	8 - 0	2-7/8	1-7/8
	9 - 6	3	2-1/4
	10 - 4	3	2-5/8
80.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-3/4
	8 - 0	2-7/8	1-7/8
	11 - 0	3-1/8	3-1/8
	12 - 1	4	4
90.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-3/4
	8 - 0	2-7/8	2
	11 - 0	3-3/8	3-3/8
	11 - 6	3-7/8	4
100.0	5 - 0	2-7/8	1-1/2
	7 - 0	2-7/8	1-3/4
	8 - 0	2-7/8	2
	9 - 0	3	2-3/4
	10 - 3	3	3

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By Helena A. Molina

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ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.: CONCRETE

ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE																				MIN. 3" EDGE DISTANCE																			
		SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)					SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)				
		CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
		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	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1/4"Φ ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT (MIN. 3,100 P.S.I. CONCRETE)	45.0	12	12	12	12	7	12	12	12	8	5	12	12	12	7	4	10	5	5	5	3	12	12	12	12	9	12	12	12	10	6	12	12	12	9	5	11	6	6	6	3
	57.0	12	12	12	9	6	12	12	12	6	4	11	9	10	6	3	8	3		4		12	12	12	11	7	12	12	12	8	5	12	10	12	7	4	9	3	3	5	3
	73.0	12	12	12	7	4	10	5	5	5	3	9	4	3	4		8	3		4		12	12	12	9	5	11	6	6	6	4	10	4	4	5	3	9	3	3	5	3
	105.0	10	5	5	5	3	8	3		4		8	3		4		8	3		4		11	6	6	6	3	9	3	3	5	3	9	3	3	5	3	9	3	3	5	3
	170.0	8	3		4		8	3		4		8	3		4		8	3		4		9	3	3	5	3	9	3	3	5	3	9	3	3	5	3	9	3	3	5	3
* 1/4"Φ POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW (MIN. 3,000 P.S.I. CONCRETE)	45.0	12	12	12	12	9	12	12	12	9	6	12	12	12	8	6	12	9	9	5	4	12	12	12	12	12	12	12	12	12	10	12	12	12	12	9	12	11	11	9	6
	57.0	12	12	12	10	7	12	12	12	7	5	12	12	12	6	4	12	5	4	4	3	12	12	12	12	11	12	12	12	12	8	12	12	12	10	7	12	6	6	7	5
	73.0	12	12	12	8	5	12	9	9	5	4	12	6	6	5	3	12	5	4	4	3	12	12	12	12	8	12	12	11	9	6	12	8	8	8	5	12	6	6	7	5
	105.0	12	9	8	5	4	12	5	4	4	3	12	5	4	4	3	12	5	4	4	3	12	11	11	9	6	12	6	6	7	5	12	6	6	7	5	12	6	6	7	5
	170.0	12	5	4	4	3	12	5	4	4	3	12	5	4	4	3	12	5	4	4	3	12	6	6	7	5	12	6	6	7	5	12	6	6	7	5	12	6	6	7	5
1/4"Φ POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT (MIN. 3,000 P.S.I. CONCRETE)	45.0	12	12	12	10	6	12	12	12	7	4	12	12	12	6	4	8	4	4	4		12	12	12	12	7	12	12	12	9	5	12	12	12	8	4	9	5	5	5	3
	57.0	12	12	12	8	5	10	10	10	5	3	9	7	8	5	3	6			3		12	12	12	10	6	12	12	12	7	4	10	8	9	6	3	7			4	
	73.0	11	11	11	6	3	8	4	4	4		7	3	3	4		6			3		12	12	12	7	4	9	5	5	5	3	8	3	3	4		7			4	
	105.0	8	4	4	4		6			3		6			3		6			3		9	5	4	5	3	7			4		7			4		7			4	
	170.0	6			3		6			3		6			3		6			3		7			4		7			4		7			4		7			4	
* * 1/4"Φ ELCO MALE/ FEMALE "PANELMATE" W/ 1-1/4 MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT (MIN. 3,300 P.S.I. CONCRETE)	45.0	12	12	12	12	11	12	12	12	12	7	12	12	12	11	6	12	8	7	7	4	12	12	12	12	12	12	12	12	12	8	12	12	12	12	7	12	8	8	8	5
	57.0	12	12	12	12	8	12	12	12	9	6	12	12	12	8	5	11	4	4	6	3	12	12	12	12	9	12	12	12	11	6	12	12	12	10	6	12	4	4	7	4
	73.0	12	12	12	10	6	12	8	8	7	4	12	5	5	6	4	11	4	4	6	3	12	12	12	12	7	12	8	8	8	5	12	6	5	7	4	12	4	4	7	4
	105.0	12	7	7	7	4	11	4	4	6	3	11	4	4	6	3	11	4	4	6	3	12	8	7	8	5	12	4	4	7	4	12	4	4	7	4	12	4	4	7	4
	170.0	11	4	4	6	3	11	4	4	6	3	11	4	4	6	3	11	4	4	6	3	12	4	4	7	4	12	4	4	7	4	12	4	4	7	4	12	4	4	7	4
1/4" ELCO TEXTRON HEX-FLANGE TAPCON/ HEX HEAD TAPCON W/ 1-3/4" EMBED (MIN. 3,320 P.S.I. CONCRETE)	45.0	12	12	12	12	11	12	12	12	12	7	12	12	12	11	7	12	8	8	7	4	12	12	12	12	12	12	12	12	12	9	12	12	12	12	8	12	10	10	9	6
	57.0	12	12	12	12	8	12	12	12	9	6	12	12	12	8	5	12	4	4	6	3	12	12	12	12	11	12	12	12	12	7	12	12	12	10	7	12	6	5	7	4
	73.0	12	12	12	10	6	12	8	8	7	4	12	6	5	6	4	12	4	4	6	3	12	12	12	12	8	12	11	10	9	6	12	7	7	8	5	12	6	5	7	4
	105.0	12	8	8	7	4	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	10	10	9	6	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4
	170.0	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4
1/4"Φ ELCO CRETE FLEX W/ 1-3/4" MIN. EMBEDMENT (MIN. 3,350 P.S.I. CONCRETE)	45.0	12	12	12	12	11	12	12	12	12	7	12	12	12	11	7	12	8	8	7	4	12	12	12	12	12	12	12	12	12	9	12	12	12	12	8	12	10	10	9	6
	57.0	12	12	12	12	8	12	12	12	9	6	12	12	12	8	5	12	4	4	6	3	12	12	12	12	11	12	12	12	12	7	12	12	12	10	7	12	6	5	7	4
	73.0	12	12	12	10	6	12	8	8	7	4	12	6	5	6	4	12	4	4	6	3	12	12	12	12	8	12	11	10	9	6	12	7	7	8	5	12	6	5	7	4
	105.0	12	8	8	7	4	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	10	10	9	6	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4
	170.0	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	4	4	6	3	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4	12	6	5	7	4

ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.: WOOD

ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 3/4" EDGE DISTANCE																			
		SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)				
		CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
		C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
1/4"Φ WOOD LAG W/ 1-3/4" MIN. THREAD PENETRATION SHEAR PARALLEL OR PERP. TO WOOD GRAIN	45.0	12	12	12	9	7	12	12	12	6	5	12	12	12	5	4	12	9	9	3	3
	57.0	12	12	12	7	5	12	12	12	5	3	12	12	12	4	3	12	5	4	3	
	73.0	12	12	12	5	4	12	9	9	3	3	12	6	6	3		12	5	4	3	
	105.0	12	9	8	3	3	12	5	4	3		12	5	4	3		12	5	4	3	
	170.0	12	5	4	3		12	5	4	3		12	5	4	3		12	5	4	3	

SEE PAGE 7 FOR ANCHOR NOTES

Approved as complying with the Florida Buiding Code
Date 06/23/2005
NOA# 05-0524.01
Miami Dade Product Control Division
By Helena H. Melton

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APR 14 2005

revisions

no	date	by	description
1	12/04/02	VJK	COUNTY COMMENTS
2	12/20/04	VJK	DETAIL G ANCHOR TYPE

HTSG I.D. # 0541402458D

date 10/17/2002
scale AS NOTED
drawn by MCR
design by VJK
checked by VJK
drawing no. 05-341
sheet 6 of 7

Print Information: \\hurricane\ka\Cadd\Associations\Hi-Tech\EZ_Home\05-341\R2-sub\05-341-06.dwg MCantu 04/14/2005 02:55:08pm 04/14/05 14:50

ANCHOR SCHEDULE

FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS

EXIST. STRUC.	ANCHOR TYPE	LOAD (W) P.S.F. MAX. (SEE NOTE 1)	MIN. 2" EDGE DISTANCE																						MIN. 3" EDGE DISTANCE																							
			SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)					SPANS UP TO 5'-8" (SEE NOTE 1)					SPANS UP TO 8'-0" (SEE NOTE 1)					SPANS UP TO 9'-0" (SEE NOTE 1)					SPANS UP TO 13'-1" (SEE NOTE 1)				
			CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)					CONNECTION TYPE (SEE NOTE 3)				
			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	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5	C1	C2	C3	C4	C5
HOLLOW CONCRETE BLOCK	1/4"Ø ITW TAPCON W/ 1-1/4" MIN. EMBEDMENT	45.0	12	12	12	7	4	9	9	9	5	3	8	8	8	4		5	3	3	3		12	12	12	8	5	10	10	10	6	3	9	9	9	5	3	6	3	3	3	
		57.0	10	10	10	5	3	7	7	7	4		6	5	5	3		4					11	11	11	6	4	8	8	8	4		7	5	6	4		5			3	
		73.0	7	7	7	4		5	3	3	3		4					4					8	8	8	5	3	6	3	3	3		5			3		5			3	
		105.0	5			3		4					4					4					6	3	3	3		5			3		5			3		5			3	
		170.0	4					4					4					4					5			3		5			3		5			3		5			3	
	* 1/4"Ø POWERS CALK-IN W/ 7/8" EMBEDMENT & 1/4-20 STAINLESS STEEL MACHINE SCREW	45.0	12	12	12	7	5	11	11	11	5	3	10	10	10	4	3	7	3	3	3		12	12	12	12	7	12	12	12	8	5	12	12	12	7	4	8	4	4	5	3
		57.0	12	12	12	6	4	9	9	9	4		8	6	7	3		5					12	12	12	9	5	11	11	11	6	4	10	8	9	5	3	7			4	
		73.0	10	10	10	4	3	7	4	3	3		6			3		5					12	12	12	7	4	9	5	4	5	3	8	3	3	4		7			4	
		105.0	7	3	3	3		5					5					5					8	4	4	5	3	7			4		7			4		7			4	
		170.0	5					5					5					5					7			4		7			4		7			4		7			4	
	1/4"Ø POWERS ZAMAC NAIL-IN W/ 1-1/8" MIN. EMBEDMENT	45.0	12	12	12	7	4	8	8	8	5	3	7	7	7	4		5			3		12	12	12	9	5	9	9	9	6	3	8	8	8	5	3	6	3	3	3	
		57.0	9	9	9	6	3	6	6	6	4		6	4	5	3		4					10	10	10	7	4	7	7	7	5		6	5	6	4		4			3	
		73.0	7	7	7	4		5	3		3		4					4					8	8	8	5	3	6	3	3	4		5			3		4			3	
		105.0	5			3		4					4					4					5	3	3	3		4			3		4			3		4			3	
		170.0	4					4					4					4					4			3		4			3		4			3		4			3	
	* * 1/4"Ø ELCO MALE/ FEMALE "PANELMATE" W/ 1-1/4 MIN. EMBEDMENT & 1/4-20 MACHINE SCREW WITH NUT	45.0	12	12	12	9	5	12	12	12	6	4	11	11	11	5	3	8	4	4	3		12	12	12	10	6	12	12	12	7	4	12	12	12	6	4	8	4	4	4	
		57.0	12	12	12	7	4	10	10	10	5	3	9	7	8	4		6			3		12	12	12	8	5	10	10	10	5	3	9	7	8	5	3	6			3	
		73.0	11	11	11	5	3	8	4	4	3		7	3	3	3		6			3		12	12	12	6	4	8	4	4	4		7	3	3	4		6			3	
		105.0	8	4	4	3		6			3		6			3		6			3		8	4	4	4		6			3		6			3		6			3	
		170.0	6			3		6			3		6			3		6			3		6			3		6			3		6			3		6			3	
	1/4" ELCO TEXTRON HEX-FLANGE TAPCON/ HEX HEAD TAPCON W/ 1-1/4" EMBED	45.0	12	12	12	10	5	11	11	11	7	4	10	10	10	6	3	7	3	3	4		12	12	12	12	7	12	12	12	9	5	12	12	12	8	4	8	4	4	5	3
		57.0	12	12	12	8	4	9	9	9	5	3	8	6	7	5		5			3		12	12	12	10	5	11	11	11	7	4	10	8	9	6	3	7			4	
		73.0	10	10	10	6	3	7	4	3	4		6			3		5			3		12	12	12	7	4	8	5	4	5	3	7	3	3	4		7			4	
		105.0	7	3	3	4		5			3		5			3		5			3		8	4	4	5	3	7			4		7			4		7			4	
		170.0	5			3		5			3		5			3		5			3		7			4		7			4		7			4		7			4	
	1/4"Ø ELCO CRETE FLEX W/ 1-1/4" MIN. EMBEDMENT	45.0	12	12	12	10	5	11	11	11	7	4	10	10	10	6	3	7	3	3	4		12	12	12	12	7	12	12	12	9	5	12	12	12	8	4	8	4	4	5	3
		57.0	12	12	12	8	4	9	9	9	5	3	8	6	7	5		5			3		12	12	12	10	5	11	11	11	7	4	10	8	9	6	3	7			4	
		73.0	10	10	10	6	3	7	4	3	4		6			3		5			3		12	12	12	7	4	8	5	4	5	3	7	3	3	4		7			4	
		105.0	7	3	3	4		5			3		5			3		5			3		8	4	4	5	3	7			4		7			4		7			4	
		170.0	5			3		5			3		5			3		5			3		7			4		7			4		7			4		7			4	

ANCHOR NOTES:

1. **SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM SHUTTER SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE SHOWN IN TABLE 1, PAGE 5.**
2. 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.
3. EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE AND APPROPRIATE CONNECTION TYPE. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
4. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
6. 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.
7. 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.
8. 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.
9. ▨ DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES.
10. * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.
11. FOR BUILD-OUT MOUNT SECTION (D) ANCHOR SPACING SHALL NOT EXCEED 8-1/2" O.C.
12. FOR BUILD-OUT MOUNT SECTION (E) ANCHOR SPACING SHALL NOT EXCEED 6" O.C.

Approved as complying with the Florida Building Code
Date 06/23/2005
NOA# 05-0524.01
Miami Dade Product Control Division
By

Thornton-Tomasetti Group
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V.J. Knezevich
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FL License No: PE 0010983

APR 14 2005

revisions

no	date	by	description
1	12/04/02	VJK	COUNTY COMMENTS
2	12/28/04	VJK	DETAIL G ANCHOR TYPE

HTSG I.D. # 0541402458D

date 10/17/2002
scale AS NOTED
drawn by MCR
design by VJK
checked by VJK
drawing no. 05-341
sheet 7 of 7

Print Information: \\hurricane\ka\Cadd\Associations\Hi-Tech\EZ_Home\05-341\R2-sub\05-341-07.dwg MCantu 04/14/2005 02:55:15pm 04/14/05, 14:50