



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.miamidade.gov

NOTICE OF ACCEPTANCE (NOA)

Mitsubishi Plastics Composites America, Inc.
401 Volvo Parkway
Chesapeake, VA 23320

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: "Alpolic and Alpolic/FR " Composite Wall Panel Systems

APPROVAL DOCUMENT: Drawing No. 1, titled " Alpolic and Alpolic/fr Composite Wall Panel Systems ", sheets 1 through 10 of 10, prepared by Mitsubishi Chemical America, Inc., dated 11/11/02, last revision #1 dated 09/01/09, signed and sealed by Robert A. Walz, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Small Missile Impact

LABELING: Each panel 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 **revises NOA # 06-0531.12** and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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



Helmy A. Makar
 12/02/2009

NOA No. 09-0923.05
Expiration Date: 08/09/2011
Approval Date: 12/02/2009
Page 1

Mitsubishi Plastics Composites America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 00-0315.07

A. DRAWINGS

1. *Drawing No. 2, titled "Alpolic and Alpolic/FR Composite Wall Panel Systems", prepared by C. W. Stater, P.E., dated April 16, 1999, last revision #1 dated February 13, 2001, sheets 1 through 5 of 5, signed and sealed by C. W. Stater, P.E.*

B. TESTS

1. *Test report on **Small Missile Impact Test**, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test on Alpolic and Alpolic/FR Composite Wall Panel Systems, prepared by Architectural Testing Inc., Report No. 01-35789.02, dated 05/31/00, signed and sealed by Allen Reeves, P.E.*
2. *Test report on Ignition Properties, prepared by Southwest Research Institute, Report No. 01-8361-038, dated 10/28/96, signed by Betty J. Covey and Alex B. Wenzel.*
3. *Test report on Flame Spread Index and Smoke Developed Index, prepared by Southwest Research Institute, Report No. 01-7520-359a, dated 09/26/96, signed by Anthony L. Saucedo and Alex B. Wenzel.*

C. CALCULATIONS

1. *Calculations titled "Structural Calculations for Composite Panel System", pages 1 through 22 of 22, dated April 13, 2000, prepared by C. W. Stater, P.E., signed and sealed by C. W. Stater, P.E.*

D. MATERIAL CERTIFICATIONS

1. *Spec. Data issued by Alcoa Mill Products, dated November 08, 2000, with chemical composition and mechanical properties of Aluminum Alloy 3105-H14.*
2. *Tensile Test Report No 01-35789.03, prepared by Architectural Testing, dated July 07, 2000, signed and sealed by Allen N. Reeves, P.E.*

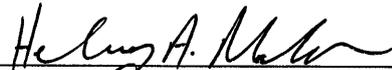
2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #03-0130.06

A. DRAWINGS

1. *Drawing No. 1, titled "Alpolic and Alpolic/fr Composite Wall Panel Systems", sheets 1 through 10 of 10, prepared by Mitsubishi Chemical America, Inc., signed and sealed by Christopher W. Stater, P.E., dated November 11, 2002.*

B. TESTS

1. *Test report on **Small Missile Impact Test**, Cyclic Wind Pressure Test, and Uniform Static Air Pressure Test on Alpolic and Alpolic/FR Composite Wall Panel Systems, prepared by Architectural Testing Inc., Report No. 01-43055.01, dated January 07, 2003, signed and sealed by Joseph A. Reed, P.E.*



Helmy A. Makar, P.E., M.S.
Senior Product Control Examiner

NOA No. 09-0923.05

Expiration Date: 08/09/2011

Approval Date: 12/02/2009

Mitsubishi Plastics Composites America, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *Tensile Test Report No 01-43055.02, prepared by Architectural Testing, dated March 04, 2003, signed and sealed by Joseph A. Reed, P.E.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0531.12

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. 1, titled " Alpolic and Alpolic/fr Composite Wall Panel Systems ", sheets 1 through 10 of 10, prepared by Mitsubishi Chemical America, Inc., dated 11/11/02, last revision #1 dated 09/01/09, signed and sealed by Robert A. Walz, P.E.*

B. TESTS

1. *None.*

C. CALCULATIONS

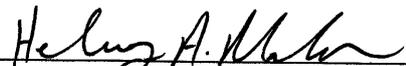
1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*



Melmy A. Makar, P.E., M.S.
Senior Product Control Examiner

NOA No. 09-0923.05

Expiration Date: 08/09/2011

Approval Date: 12/02/2009

ALPOLIC and ALPOLIC/FR (FIRE RATED) COMPOSITE WALL PANEL SYSTEMS FOR FLORIDA BUILDING CODE SMALL MISSILE IMPACT

GENERAL NOTES

1. THESE ALPOLIC AND ALPOLIC/FR COMPOSITE PANELS SHALL BE USED FOR WALL CONSTRUCTION, SOFITS, AND OTHER EXTERIOR DETAILS WHOSE REQUIREMENTS FOR POSITIVE AND NEGATIVE PRESSURES ARE WITHIN THEN VALUES STATED IN NOTE 2 OF THIS DRAWING. EACH ACTUAL WALL PROJECT SHALL BE CONSTRUCTED USING THE DETAILS SHOWN ON THESE DRAWINGS AS MINIMUM REQUIRED SPECIFICATIONS
2. THE WALL DESIGN ALLOWABLE PRESSURES FOR THESE WALL PANEL SYSTEMS ARE + 70 PSF/ -90 PSF.
3. THESE ALPOLIC and ALPOLIC/FR COMPOSITE WALL PANEL SYSTEMS ARE TESTED IN ACCORDANCE WITH THE FOLLOWING PROTOCOLS:
 TAS-201-94, IMPACT TEST, SMALL MISSILE
 TAS-202-94, UNIFORM STATIC AIR PRESSURE TEST
 TAS-203-94, CYCLIC WIND PRESSURE TEST
 AND THEY SHALL BE INSTALLED AS SHOWN IN THESE APPROVED DRAWINGS.

MATERIAL SPECIFICATIONS:

ALUMINUM EXTRUSIONS

1. MATERIAL: M2, F2, A2, HS, and HR ARE EXTRUDED ALUMINUM ALLOY 6063 WITH A T6 TEMPER. (By Kistler McDougall)
2. MATERIAL: CAY-1009 TEE, CAY-1010 FEMALE, CAY-1011 MALE, CAY-1012 STIFFENER AND CAY-1013 RETAINER ARE EXTRUDED ALUMINUM ALLOY 6063 WITH A T6 TEMPER (By CAY ARCHITECTURAL PRODUCTS)
3. FINISH: MILL FINISH

COMPOSITE PANEL

1. ALPOLIC ALUMINUM COMPOSITE METAL PANEL 4MM THICK (0.157") AND 6MM THICK (0.236") AS MANUFACTURED BY MITSUBISHI CHEMICAL AMERICA, INC., CHESAPEAKE, VA
2. ALPOLIC/fr (FIRE RATED) ALUMINUM COMPOSITE METAL PANEL 4MM THICK (0.157") AS MANUFACTURED BY MITSUBISHI CHEMICAL FUNCTIONAL PRODUCTS, INC., UEDA, JAPAN
3. CORE: THERMOPLASTIC MATERIAL WHICH IN COMPOSITE ASSEMBLY MEETS PERFORMANCE CHARACTERISTICS SPECIFIED.
4. FACE SHEET: 0.020" ALUMINUM 3105-H14 ALLOY
5. FINISH: LUMIFLON-BASE FLUROPOLYMER RESIN COATING.
6. MAXIMUM DIMENSIONS: 62" WIDE X 288" LONG
7. TECHNICAL DATA

DESCRIPTION	TEST	4MM ALPOLIC	4MM ALPOLIC/fr	6MM ALPOLIC
SPECIFIC GRAVITY		1.38	1.90	1.23
WEIGHT		1.12 LB/SQ.FT	1.56 LB/SQ.FT	1.50 LB/SQ.FT
TENSILE STRENGTH	ASTM E-8	7452 PSI	5693 PSI	5399 PSI
YIELD STRENGTH	ASTM E-8	NDY	NDY	NDY
ELONGATION	ASTM E-8	16%	8%	13%
PUNCHING SHEAR RESISTANCE (1"DIA.)	ASTM D-732	4025 PSI	4637 PSI	2816 PSI
PUNCHING SHEAR MAX LOAD	ASTM D-732	1920 PSI	2259 PSI	2121 LBS
BOND INTEGRITY VERTICAL PULL	ASTM C-297	1806 PSI	427 PSI	1664 PSI
DRUM PEEL	ASTM D-1781-76	33.6 IN-LB/IN	27.6 IN-LB/IN	33.6 IN-LB/IN
FLATWISE SHEAR	ASTM C-273	1225 PSI	949 PSI	1195 PSI
RATE OF BURNING	ASTM D-635	CC1	--	--
FLAME SPREAD INDEX	ASTM E-84	00	00	00
SMOKE DEVELOPED INDEX	ASTM E-84	00	10	10
SELF IGNITION TEMPERATURE	ASTM D-1929	752°F	837°F	752°F
FLASH IGNITION TEMPERATURE	ASTM D-1929	716°F	811°F	716°F
SURFACE FLAMMABILITY	ASTM E-108-88	PASSED	PASSED	PASSED
SOUND TRANSMISSION	ASTM E-413	STC-26	--	STC-26

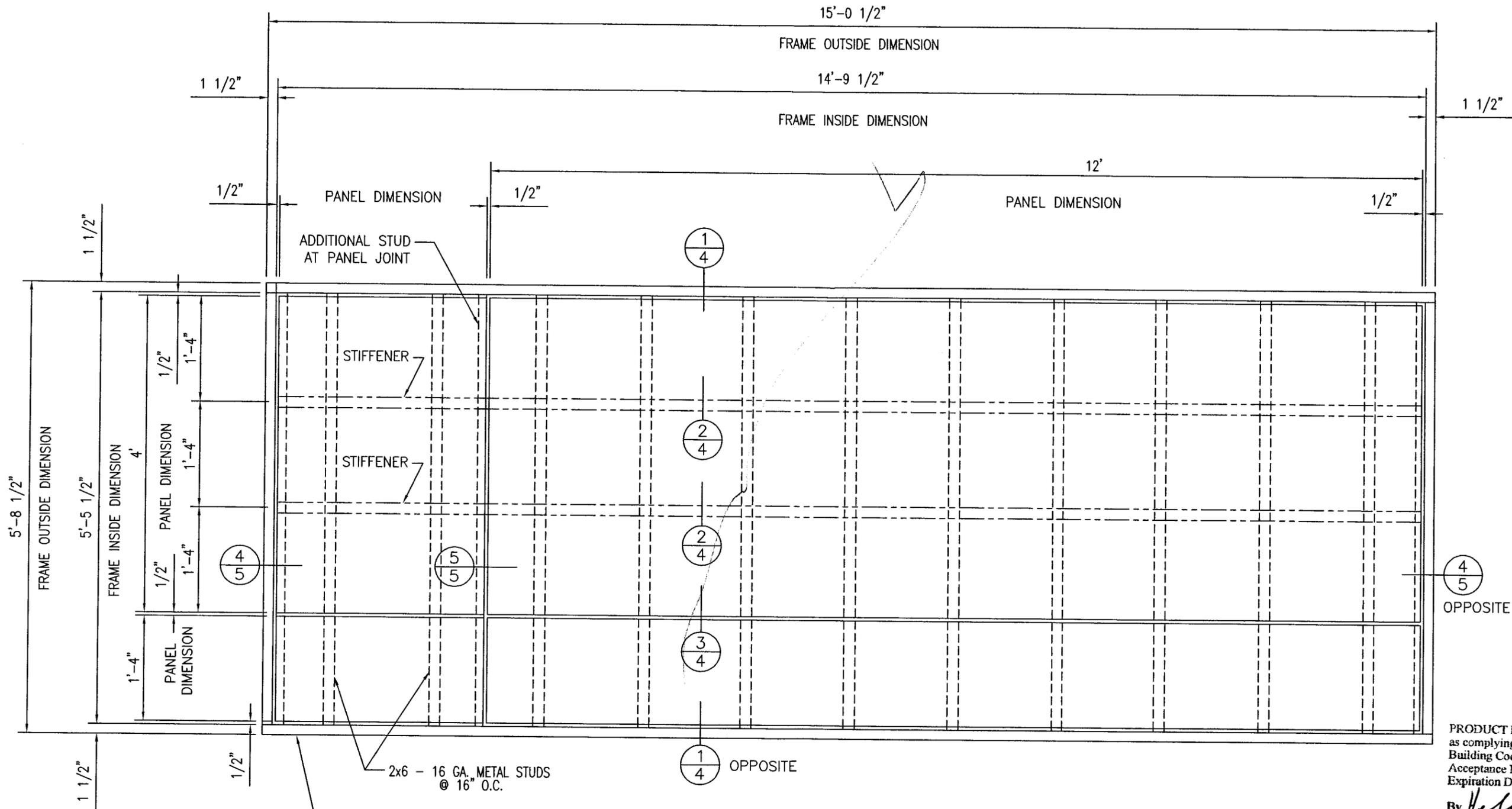
FRAMING & ACCESSORIES

1. STEEL STUDS AND TRACKS: 16 GA. MIN. GALVANIZED STEEL WITH MIN. PROPERTIES OF 50 KSI YIELD, 65 KSI ULTIMATE.
2. STUD & TRACK FASTENERS: #12 x 1-1/2" HEX WASHER HEAD TRAXX 3 BUILDDEX SCREW.
3. PANEL FASTENERS: #10 x 1" HEX WASHER HEAD TEK SCREWS SPACED AT 16" O.C.
4. STIFFENER FASTENERS: #10 x 1" HEX WASHER HEAD TEK SCREWS.
5. JOINT SILICONE: DOW CORNING #795 SILICONE SEALANT.
6. STRUCTURAL SILICONE: DOW CORNING #1199 SILICONE SEALANT.
7. BACKER ROD: 3/4" DIA. DENVER FOAM OPEN CELL BACKER ROD.
8. THE STRUCTURAL ADEQUACY OF THE 16 GA. GALVANIZED STEEL STUDS AND THE REST OF THE STRUCTURAL FRAMING SUPPORTING THE METAL PANELS IS NOT PART OF THIS PRODUCT CONTROL APPROVAL AND IT SHALL BE REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0923.05
Expiration Date 08/09/2011
By *Heather H. Miller*
Miami Dade Product Control
Division

Robert A. [Signature]
9-14-09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO.		MITSUBISHI CHEMICAL AMERICA, INC.	
FRACTIONS + 1/32	DECIMALS .XX ± .01	ANGLES XXX ± .005	± 1/2	APPROVALS	DATE
MATERIAL	DRAWN	ENGINEERING	MS	11/11/02	
FINISH	PROJ MGMT	PRODUCTION			
1	TH	9/01/09	SEE NOTE 1 WAS FOR WALL CONSTRUCTION ONLY		SCALE
REV.	BY	DATE	CHANGE	DO NOT SCALE DRAWING	SCALE
					SIZE CAGE CODE DWG NO. 1 REV 1 SHEET 1 OF 10



THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.

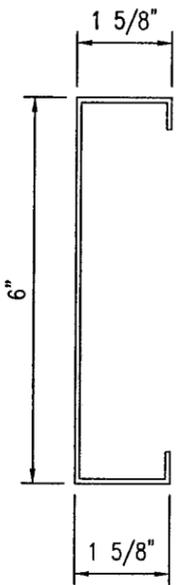
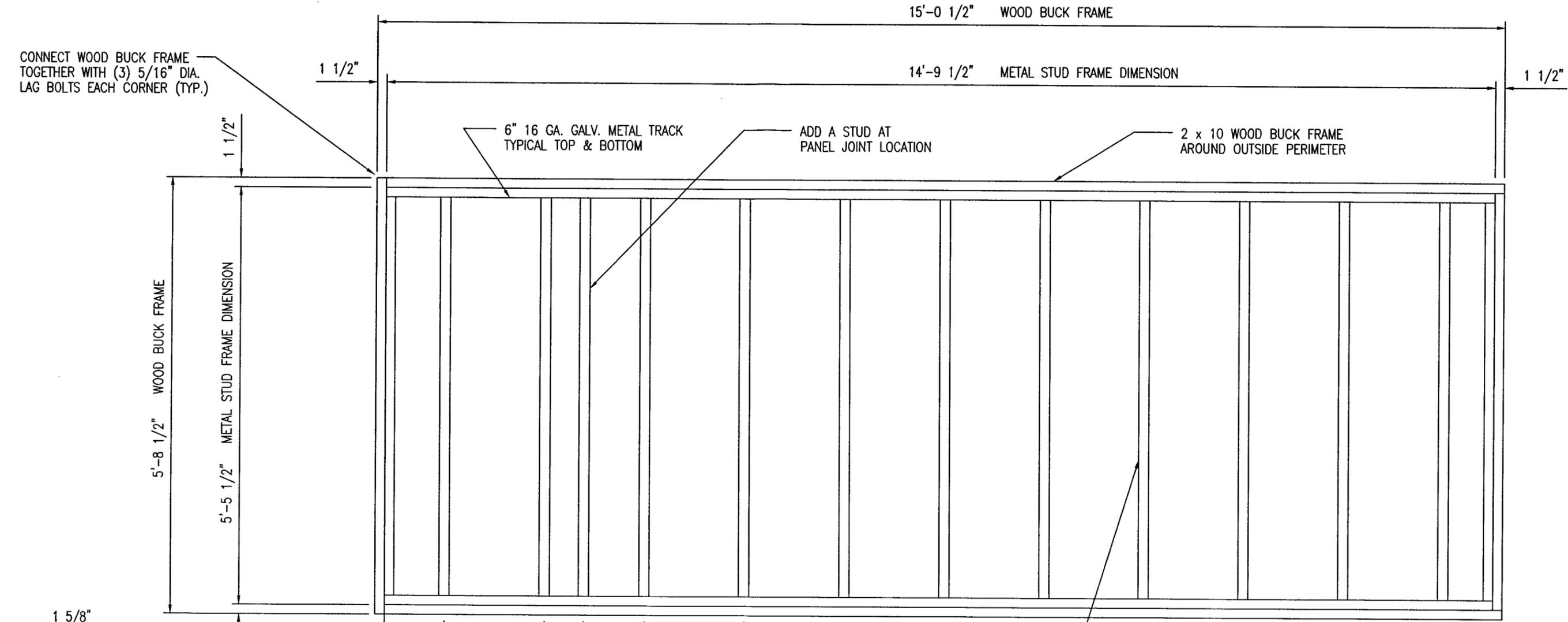
PANEL ELEVATION
3/4" = 1'-0"

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 09-0923.05 Expiration Date 08/29/2011
By *Heather A. Miller*
Miami Dade Product Control Division

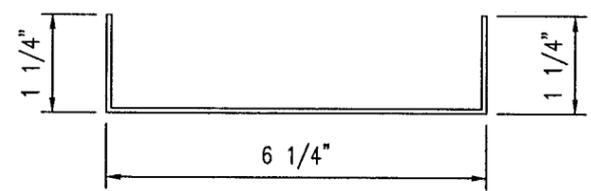
Robert P. [Signature]
9-14-09

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO. 9-14-09	
FRACTIONS	DECIMALS	ANGLES	APPROVALS
± 1/32	XX ± .01	± 1/2	DATE
	XXX ± .005		
MATERIAL	4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr	DRAWN	
FINISH		ENGINEERING	MS 11/11/02
		PROJ MGMT	
		PRODUCTION	
DO NOT SCALE DRAWING			

Kistler McDougall			
MITSUBISHI CHEMICAL AMERICA, INC.			
ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
SIZE	CAGE CODE	DWG NO.	REV
B		1	1
SCALE SHOWN			SHEET 2 OF 10



METAL STUD



STEEL TRACK

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 09-0923.05
 Expiration Date 08/09/2011
 By *Robert A. Hall*
 Miami Dade Product Control
 Division

6" x 1-5/8" 16 GA.
 GALV. METAL STUDS
 50 KSI YIELD (TYP.)

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.

STUD FRAMING ELEVATION

3/4" = 1'-0"

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO. 09-0923.05		Kistler McDougall	
FRACTIONS ± 1/32	DECIMALS .XX ± .01 .XXX ± .005	ANGLES ± 1/2	APPROVALS	DATE	MITSUBISHI CHEMICAL AMERICA, INC.
MATERIAL: 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr			ENGINEERING MS	11/11/02	ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEM
FINISH			PROJ MGMT		SIZE B
DO NOT SCALE DRAWING			PRODUCTION		CAGE CODE DWG NO. 1
				SCALE	SHEET 3 OF

#12 x 1 1/2" HWH WOOD SCREW
@16" O.C. TO MAIN STRUCTURE

2 X 10 WOOD BUCK FRAME
CONNECT FRAME TOGETHER WITH
(3) 5/16" DIA. LAG BOLTS

DOW CORNING *795 SILICONE
SEALANT & 3/4" DIA. OPEN CELL
BACKER ROD (TYPICAL)

#10 x 1" HWH TEK SCREW
16" O.C. TYPICAL EACH PANEL

4MM OR 6MM ALPOLIC
OR 4MM ALPOLIC/fr
ALUMINUM COMPOSITE
PANEL

ATTACH EACH STUD TO TRACK
W/ #12 x 1 1/2" HWH
TRAXX 3 BUILDDEX SCREWS
TWO (2) EA. SIDE

#12 x 1 1/2" HWH TEK SCREW
16" O.C. (FASTEN TO STUDS)

PLASTIC SHIM SPACE
(AS REQUIRED)

A2 ALUMINUM
EXTRUSION

6" X 16 GA.
GALV. STEEL STUD
16" O.C.

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING
IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED
AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.

1
4
DETAIL
SCALE: 6" = 1'

HS EXTRUDED ALUMINUM
PANEL STIFFENER

DOW-CORNING #1199
SILICONE SEALANT

HR EXTRUDED ALUMINUM
PANEL STIFFENER

#12 x 1 1/2" HWH TEK SCREW
16" O.C. (FASTEN TO STUDS)

PLASTIC SHIM SPACE
(AS REQUIRED)

6" X 16 GA.
GALV. STEEL STUD
16" O.C.

2
4
STIFFENER DETAIL
SCALE: 6" = 1'

#10 x 1" HWH TEK SCREW
16" O.C. TYPICAL EACH PANEL

BACKER ROD
AND SEALANT

F2 ALUMINUM
EXTRUSION

M2 ALUMINUM
EXTRUSION

#12 x 1 1/2" HWH TEK SCREW
16" O.C. (FASTEN TO STUDS)

PLASTIC SHIM SPACE
(AS REQUIRED)

6" X 16 GA.
GALV. STEEL STUD
16" O.C.

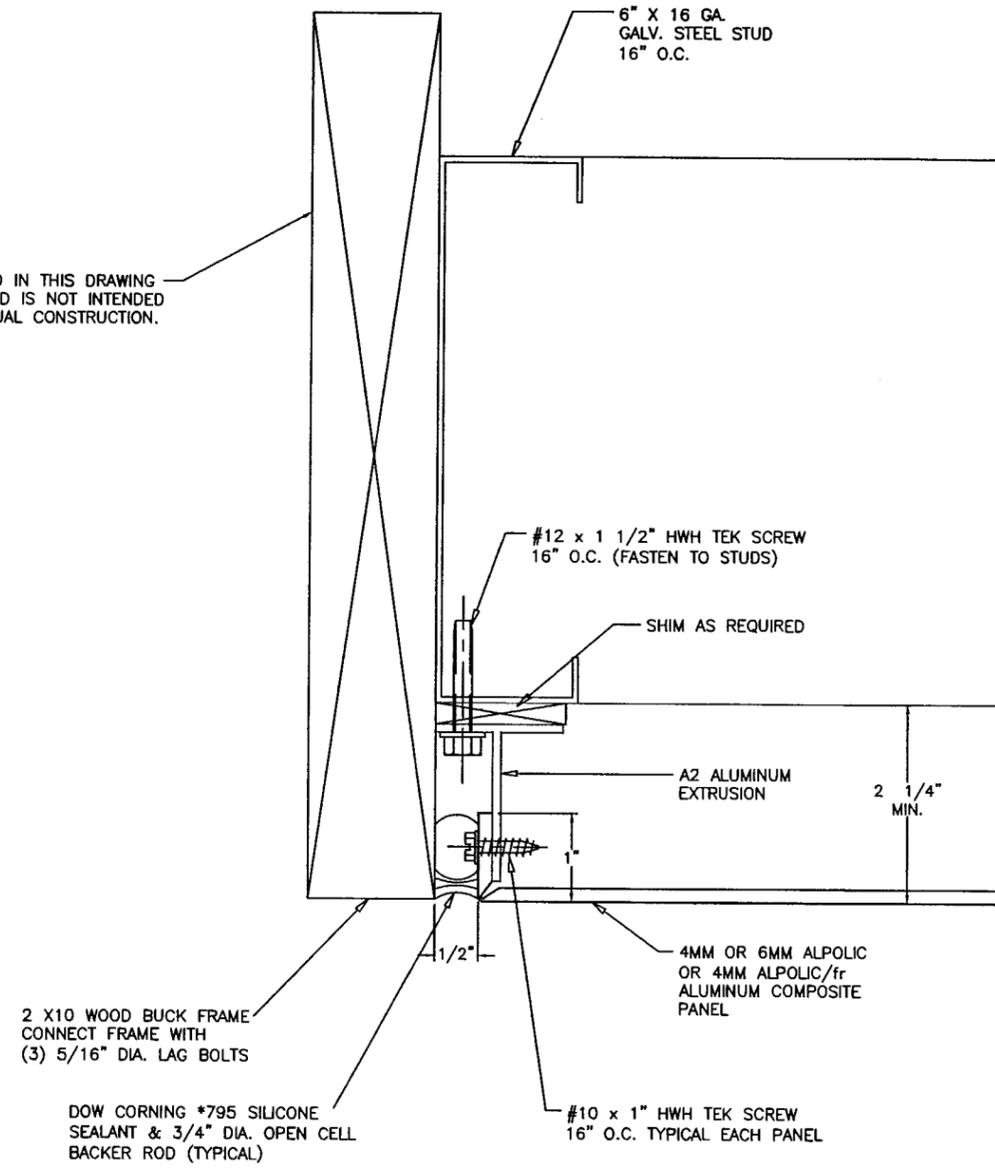
3
4
JOINT DETAIL
SCALE: 6" = 1'

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 09-0923.05
Expiration Date 08/09/2011
By *Robert A. Gal*
Miami Dade Product Control
Division

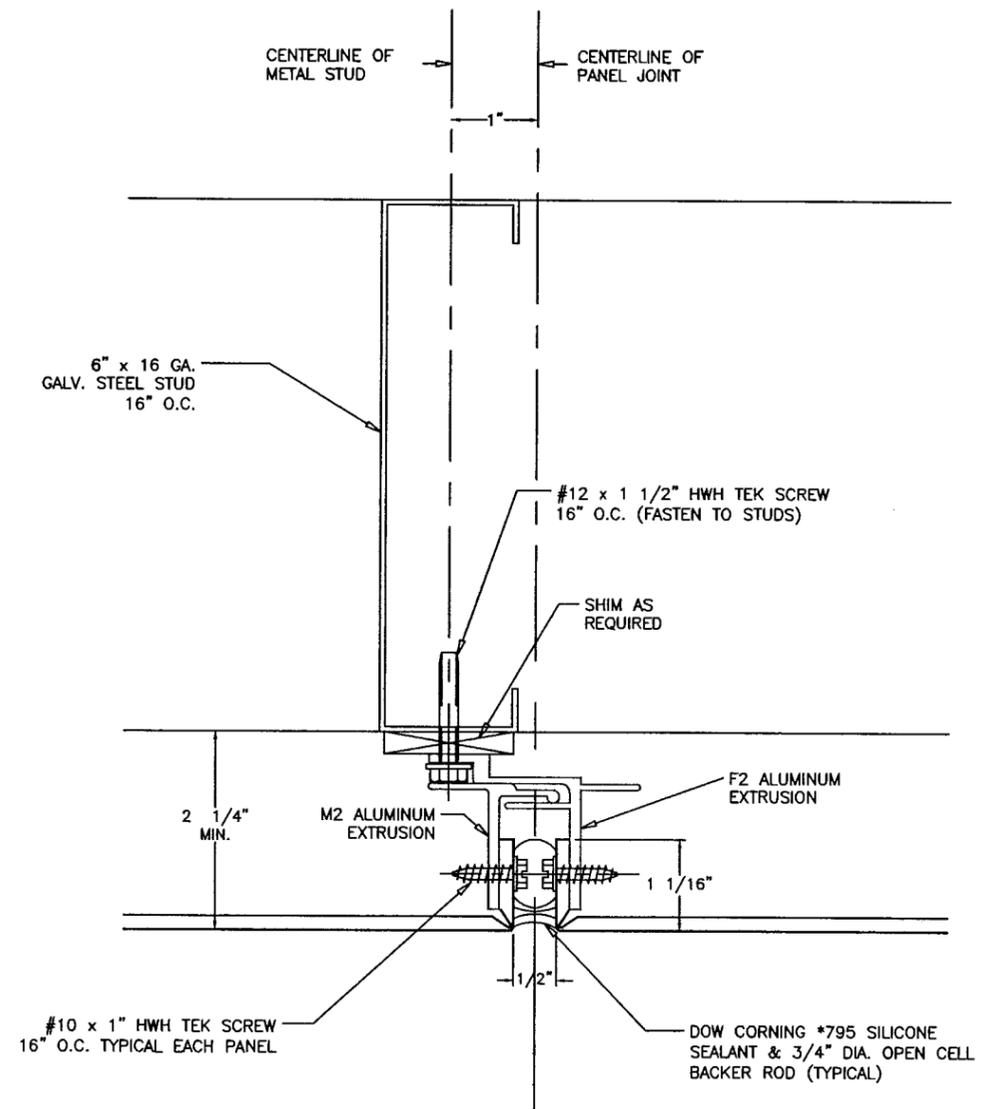
Robert A. Gal

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO. 91409		Kistler McDougall	
FRACTIONS 1/16	DECIMALS XX ± .01 XXX ± .005	ANGLES °	APPROVALS	DATE	MITSUBISHI CHEMICAL AMERICA, INC.
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr		ENGINEERING	MS	11/11/02	ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS
FINISH		PROJ MGMT			SIZE CAGE CODE B
DO NOT SCALE DRAWING		PRODUCTION			DWG NO. 1
				SCALE SHOWN	REV 1
					SHEET 4 OF 10

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.



4
5
DETAIL
SCALE: 6" = 1'



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0923.05
Expiration Date 08/09/2011
By Helmy A. Madon
Miami Data Product Control
Division

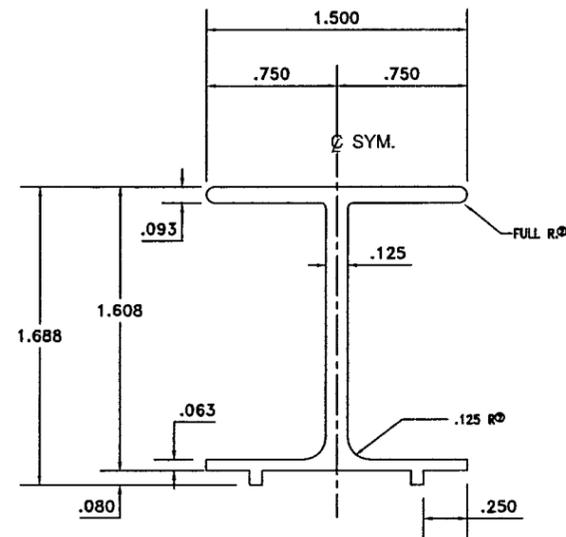
5
5
DETAIL
SCALE: 6" = 1'

Robert D. Gal

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE		CONTRACT NO. 9-409	
FRACTIONS	DECIMALS	APPROVALS	DATE
± 1/32	± .01		
± 1/16	± .005		
MATERIAL		DESIGNED BY	DATE
4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr		MS	11/11/02
FINISH		PROJ MGMT	
DO NOT SCALE DRAWING		PRODUCTION	

Kistler McDougall			
MITSUBISHI CHEMICAL AMERICA, INC.			
ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
SIZE	CAGE CODE	DWG. NO.	REV
B		1	1
SCALE SHOWN			SHEET 5 OF 10

HS

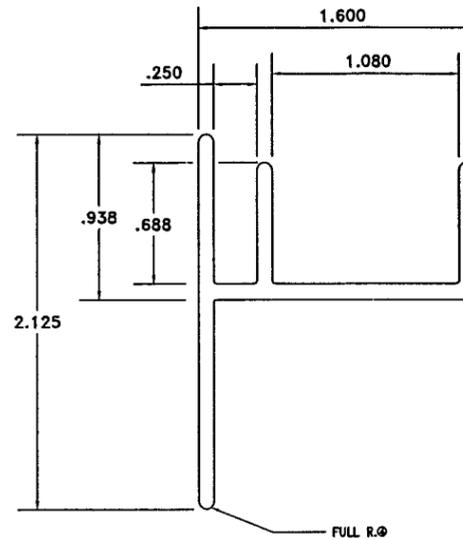


BREAK CORNERS .015 R
EXCEPT AS NOTED
ACTUAL SIZE

DIE DATA

EST. AREA: .430 DIE SIZE: 6
EST. WEIGHT: .516 NO. HOLES: 1
EST. PERI.: EXT. LENGTH: 5 1/8" = 1 @ 35'
FACTOR: R/R:

HR

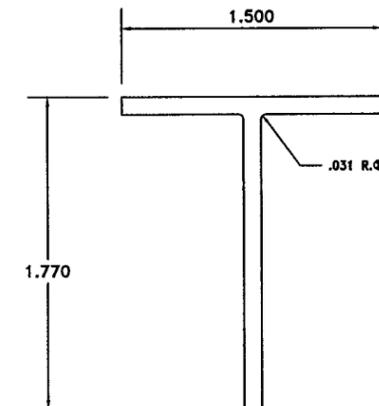


BREAK CORNERS .015 R
.090 TYPICAL METAL THICKNESS
ACTUAL SIZE

DIE DATA

EST. AREA: .465 DIE SIZE: 6
EST. WEIGHT: .558 NO. HOLES: 1
EST. PERI.: EXT. LENGTH: 5 1/8" = 1 @ 36'
FACTOR: R/R

A2



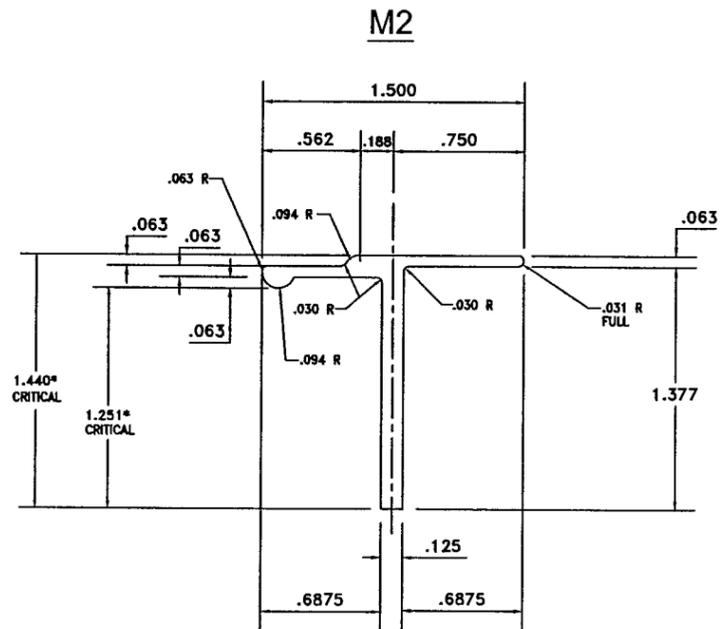
BREAK CORNERS .010 R
.100 WALL THICK TYPICAL
ACTUAL SIZE

DIE DATA

EST. AREA: .317 DIE SIZE: 6
EST. WEIGHT: .380 NO. HOLES: 1
EST. PERI.: 6.94 EXT. LENGTH:
FACTOR: 1/6 R/R: 5 1/8" = 1 @ 53'

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0923.05
Expiration Date 08/09/2011
By *Heather A. Nelson*
Miami Dade Product Control
Division:

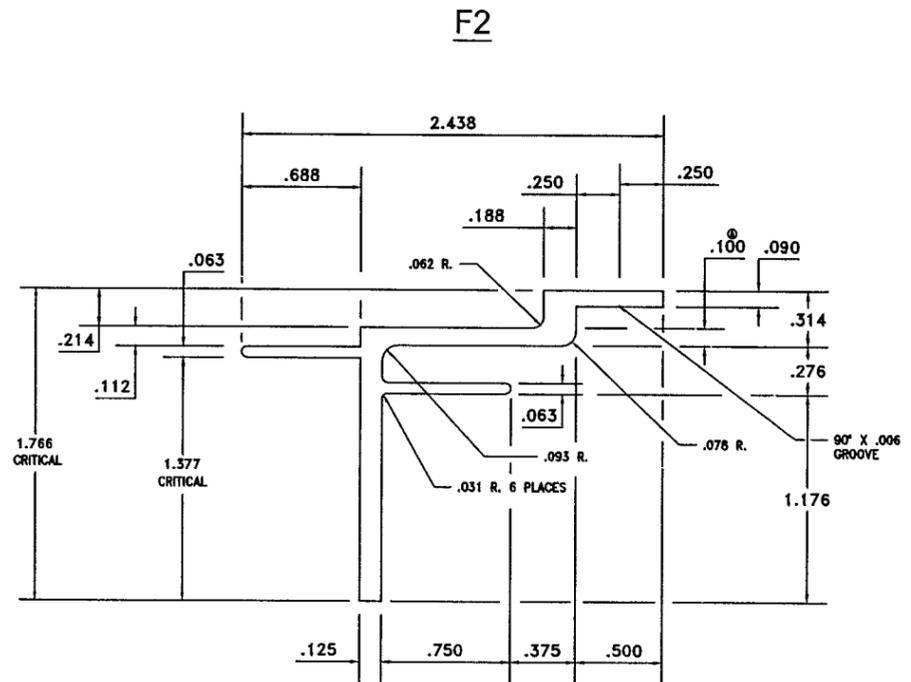
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO. 9-4-09		Kistler McDougall	
FRACTIONS: 1/32	DECIMALS: .01	APPROVALS:	DATE:	MITSUBISHI CHEMICAL AMERICA, INC.	
MATERIAL: 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr	NO. HOLES: 1	ENGINEERING: MS	11/11/02	ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS	
FINISH:	PHOTO MGMT:	PRODUCTION:	SCALE:	SIZE: B	CAGE CODE: 1
DO NOT SCALE DRAWING			REVISION:	DWG NO.:	REV: 0
				SHEET 6 OF 10	



ACTUAL SIZE
BREAK SHARP CORNERS .005 R

DIE DATA

EST. AREA: .275 DIE SIZE: 6
 EST. WEIGHT: .330 NO. HOLES: 1
 EST. PERI.: 5.831 EXT. LENGTH: 4 1/2 = 1- 46'
 FACTOR: 18 R/R: 5 1/8" = 1- 62'



ACTUAL SIZE
BREAK SHARP CORNERS .010R

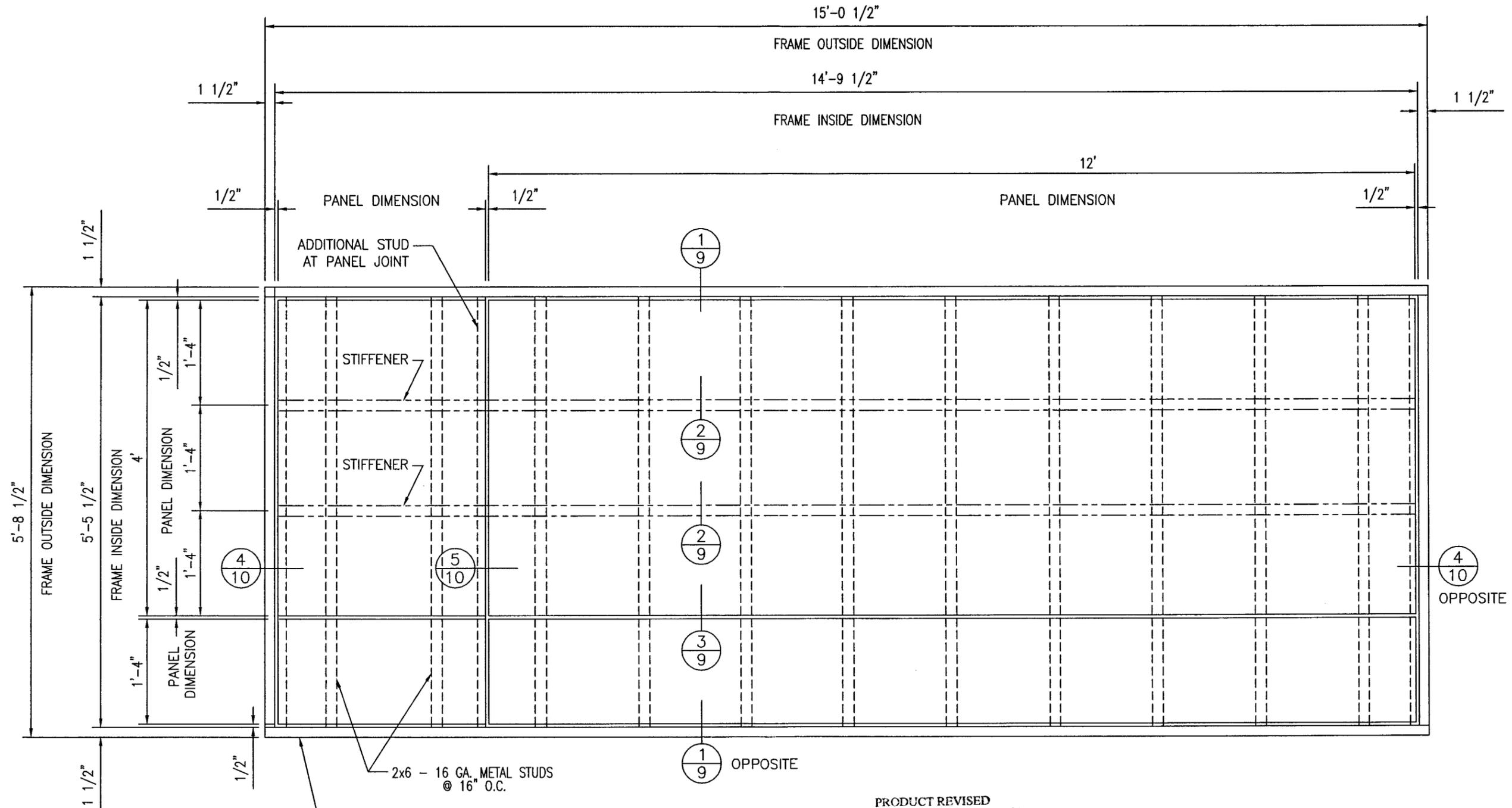
DIE DATA

EST. AREA: .484 DIE SIZE: 6
 EST. WEIGHT: .581 NO. HOLES: 1
 EST. PERI.: 9.900 EXT. LENGTH: 5 1/8 = 1- 54'
 FACTOR: 17 R/R

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 09-0923.05
 Expiration Date 08/09/2011
 By *Helena A. Miller*
 Miami Dade Product Control
 Division

Robert A. Wald
 Kistler McDougall

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES:		CONTRACT NO. 09-14-09	MITSUBISHI CHEMICAL AMERICA, INC.	
FRACTIONS ± 1/32	DECIMALS XXX ± .005	ANGLES ± 1/2	APPROVALS	DATE
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr		FINISH	ENGINEER MS	DATE 11/11/02
DO NOT SCALE DRAWING		PRODUCTION	SIZE B	CAGE CODE 1
			DWG NO. 1	REV 0
			SCALE	SHEET 7 OF 10



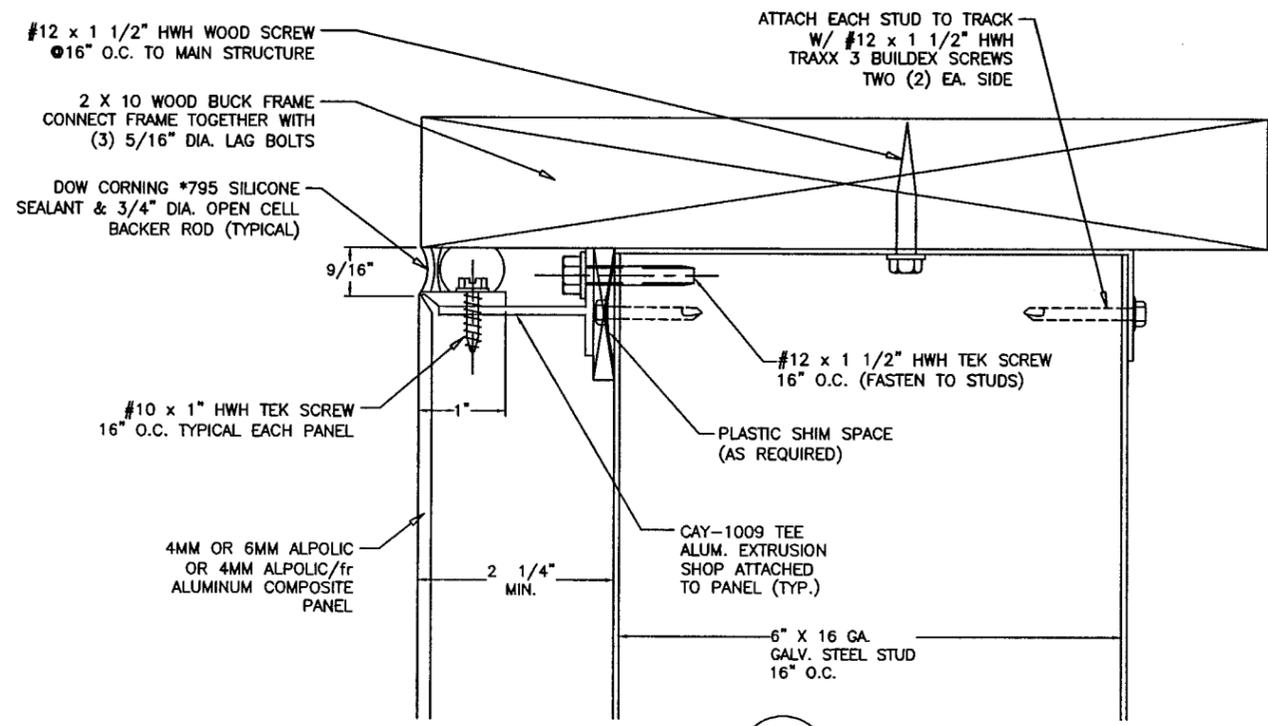
THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 09-0923.05
 Expiration Date 08/29/2011
 By *Helmut H. Miller*
 Miami Dade Product Control
 Division

PANEL ELEVATION
 3/4" = 1'-0"

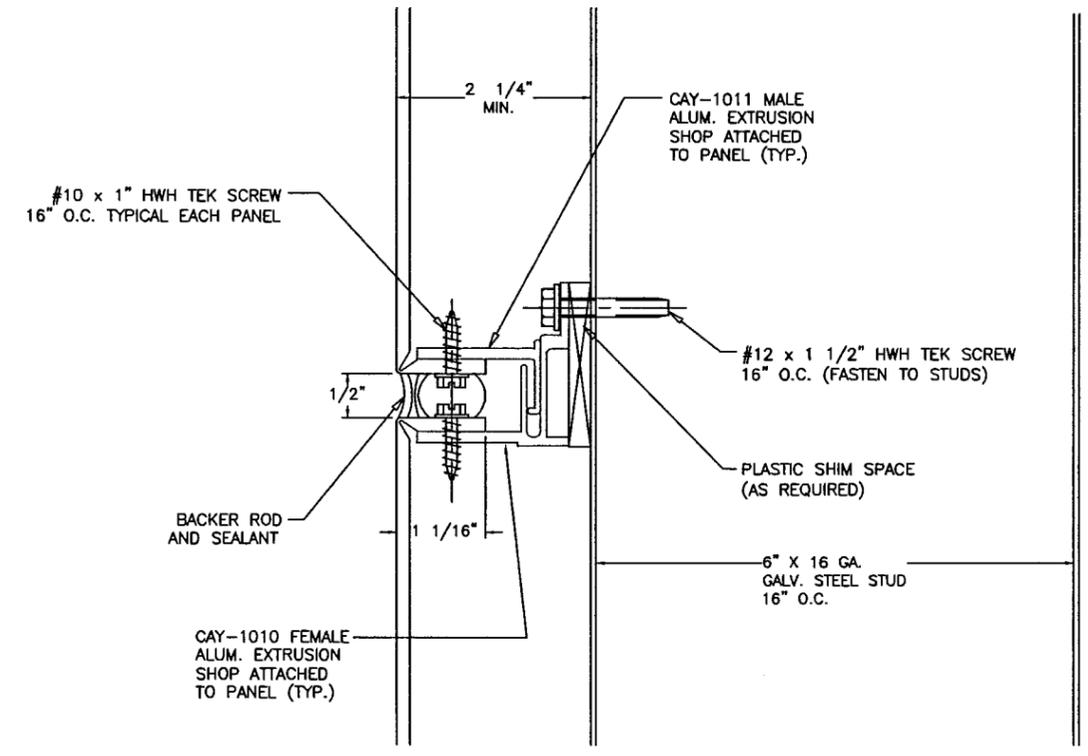
Robert A. Hall

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		CONTRACT NO. 9-14-09		CAY ARCHITECTURAL PRODUCTS	
FRACTIONS ± 1/32	DECIMALS XX ± .01 XXX ± .005	ANGLES ± 1/2	APPROVALS	DATE	MITSUBISHI CHEMICAL AMERICA, INC
MATERIAL 4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr	FINISH	PROJ MGMT	ENGINEERING MS	DATE 11/1/02	ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEM
DO NOT SCALE DRAWING	PRODUCTION	SCALE SHOWN	SIZE B	CAGE CODE	DWG NO. 1
					SHEET 8 OF

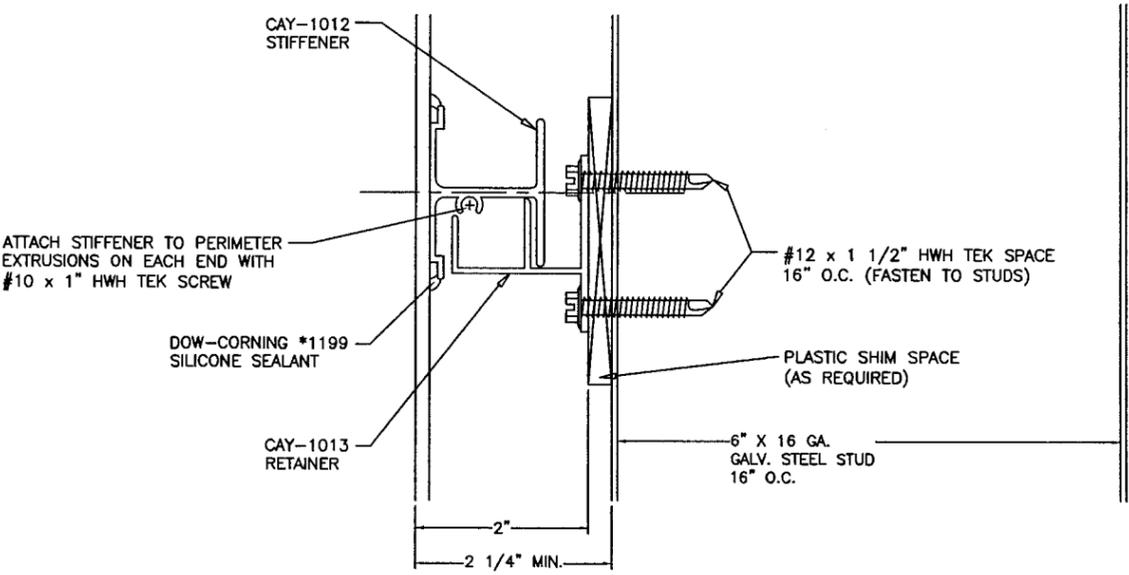


1
9
DETAIL
SCALE: 6" = 1'

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.



3
9
JOINT DETAIL
SCALE: 6" = 1'



2
9
STIFFENER DETAIL
SCALE: 6" = 1'

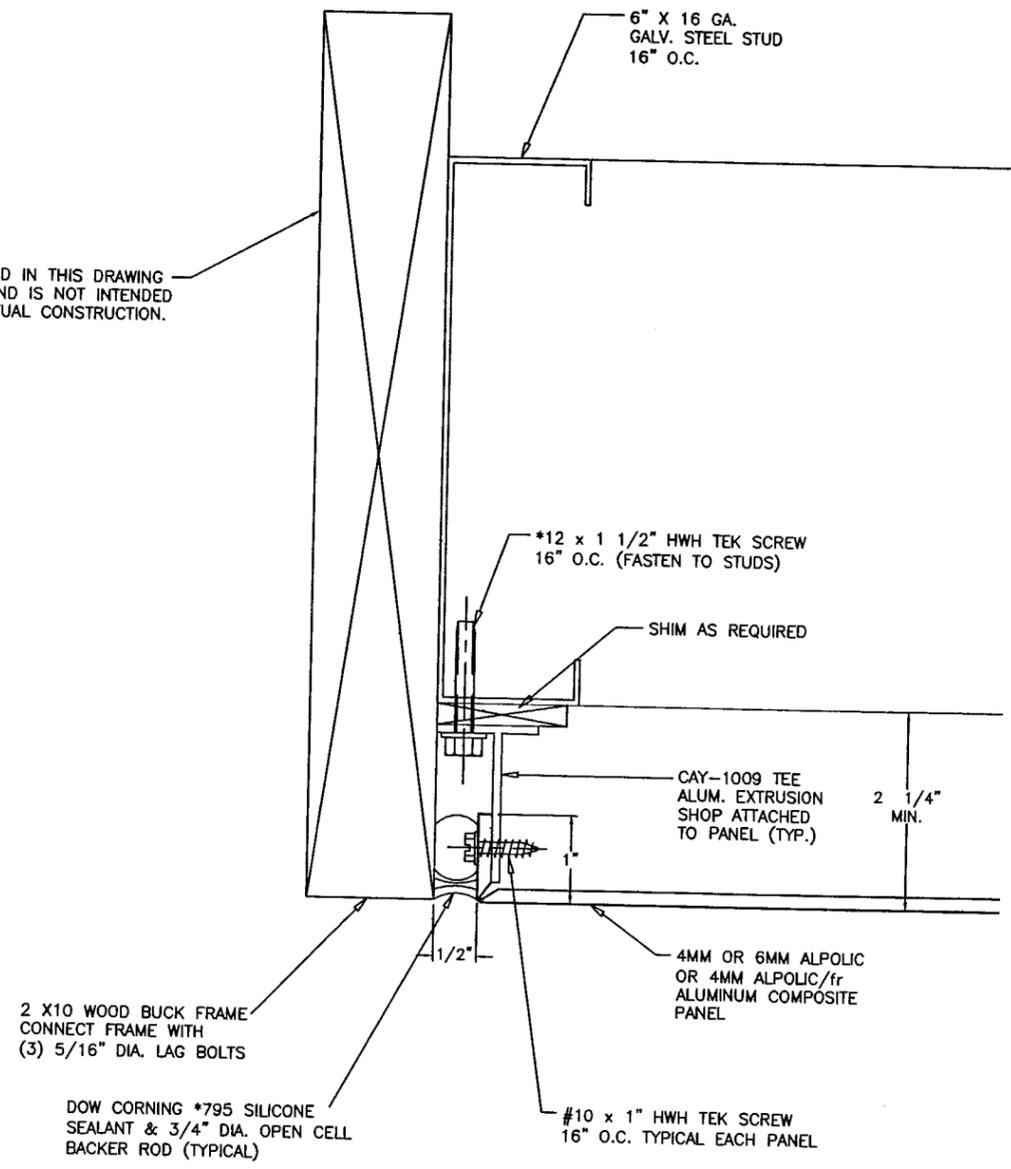
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0923.05
Expiration Date 08/09/2011
By *Heidi A. Miller*
Miami Design Product Control
Division

Handwritten signature and date: 9-14-09

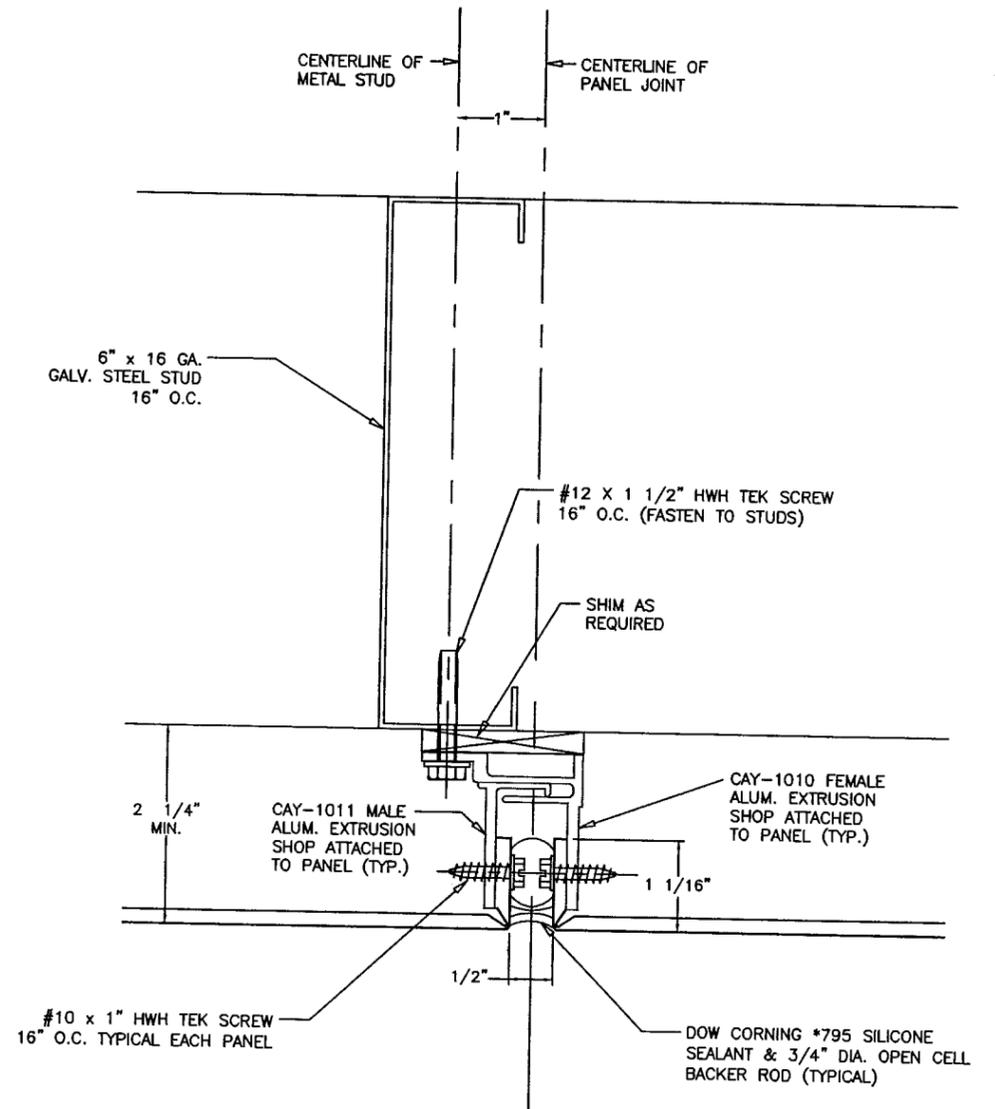
CAY ARCHITECTURAL PRODUCTS
MITSUBISHI CHEMICAL AMERICA, INC.

TOLERANCES ARE:		CONTRACT NO. 9-14-09		CAY ARCHITECTURAL PRODUCTS	
FINISHES	DECIMALS	APPROVALS	DATE	MITSUBISHI CHEMICAL AMERICA, INC.	
± 1/32	.01			ALPOLIC and ALPOLIC/fr	
XXX ± .03"	± 1/2			COMPOSITE WALL PANEL SYSTEMS	
MATERIAL	ENGINEERING	MS	11/11/02	SIZE	CAGE CODE
4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr	PROJ MGMT			B	DWG NO. 1
FINISH	PRODUCTION			SCALE SHOWN	REV 1
DO NOT SCALE DRAWING					SHEET 9 OF 10

THE WOOD BUCK FRAME DETAILED IN THIS DRAWING IS FOR TEST PURPOSES ONLY AND IS NOT INTENDED AS A RECOMMENDATION FOR ACTUAL CONSTRUCTION.



4
10
DETAIL
SCALE: 6" = 1"



5
18
DETAIL
SCALE: 6" = 1"

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 09-0923.05
Expiration Date 08/09/2011
By *Helmut A. Weber*
Miami Dade Product Control
Division

Robert J. Gal
CONTRACT NO. 09-14-09

DIMENSIONS UNLESS SPECIFIED ARE IN INCHES TOLERANCES ARE:		CONTRACT NO. 09-14-09	
± .002	± .01	APPROVALS	DATE
± .005	± .12	DRAWN	
MATERIAL		ENGINEERING	11/11/02
4MM & 6MM ALPOLIC & 4MM ALPOLIC/fr		PROJ. LEAD	
FINISH		PRODUCTION	
DO NOT SCALE DRAWING			

CAY ARCHITECTURAL PRODUCTS			
MITSUBISHI CHEMICAL AMERICA, INC.			
ALPOLIC and ALPOLIC/fr COMPOSITE WALL PANEL SYSTEMS			
SIZE	CAGE CODE	DWG. NO.	REV
B		1	1
SCALE SHOWN		SHEET 10 OF 10	