



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

NOTICE OF ACCEPTANCE (NOA)

Reynolds Metals Company dba Alcoa Architectural Products
50 Industrial Blvd., P.O. Box 4129
Eastman, GA 31023-4129

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 Florida Building Code including the High Velocity Hurricane Zone.

DESCRIPTION: Reynobond® with Kevlar® Wall Panel

APPROVAL DOCUMENT: Drawing No. MD-001 "Submittal Dwg.", sheets 1 through 5 of 5, prepared by Alcoa Architectural Products, dated 10/12/06 with revision "05", signed and sealed by Milton Cubas, 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 Resistant

LABELING: Each component shall bear a permanent label with the manufacturer's name, city, state and following statement: "Miami-Dade County Product Control Approved or MDCPCA", as follows:

1. Alcoa Architectural Products, Eastman, GA - Miami-Dade County Product Control Approved
2. Alcoa Architectural Products, Merxheim, France - Miami-Dade County Product Control Approved

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, evidence pages E-1 and E-2, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
 12/1/06

NOA No 06-1025.03
Expiration Date: December 21, 2011
Approval Date: December 21, 2006
 Page 1

Reynolds Metals Company dba Alcoa Architectural Products

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

A. DRAWING

1. Drawing No. MD-001 titled "Submittal Dwg.", sheets 1 through 5 of 5, prepared by Alcoa Architectural Products, dated 10/12/06 with revision "05", signed and sealed by Milton Cubas, P.E.

B. TEST

1. Test report on Large Missile Impact Test per TAS 201, Cyclic Pressure Test per TAS 203, Uniform Static Air Test, Air Infiltration Test, Water Leakage Test per TAS 202 of "90" x 179" Reynobond® with Kevlar® wall panel system", prepared by Hurricane Test Laboratory, Inc., report No. 0423-0218-06, test units 3, 4, 5, 6, 7 & 13, dated 03/28/2006 through 08/25/06, signed and sealed by Vinu J. Abraham, PE.
2. Test report on Surface Burning Characteristics of the Reynobond® with Kevlar® wall panel in accordance with ASTM E84-05, prepared by Intertek Testing Services NA, Inc., report No. 3093996SAT-002, dated 04/28/06, pages 1 through 9 of 9 and signed by Eric G. Hutchinson.
3. Test report on Self Ignition Temperature for the polyethylene resin in accordance with ASTM D1929, prepared by Polyhedron Laboratories, Inc., report No. 4500317871 dated 07/29/05, signed by Howard Kaye, Ph.D.
4. Test report on Rate of Burning of Plastics in Horizontal Position for the Reynobond® with Kevlar® wall panel in accordance with ASTM D635-03, prepared by Applied Technical Services, Inc., report No. D103926 dated 07/12/06, signed by F. Lopez and E.W. Sproat.
5. Test report on tensile strength of Reynobond® with Kevlar® wall panel in accordance to ASTM E8, prepared by Q.C. Metallurgical, Inc. Report No. 6HM-680 dated 08/28/06, signed by Frank Grate, P.E.

C. CALCULATIONS

1. Calculations titled "Reynobond w/Kevlar", pages 1 through 15 of 15 and additional sheet 16, prepared by Milton Cubas, P.E., Inc, signed and sealed by Milton Cubas, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Building Code Compliance Office

E. MATERIAL CERTIFICATION

1. Extruded Tie-Layer Resin PX2220 by Plexar®
2. Dow Corning® 795 Silicone Building Sealant
3. Dow Corning® 995 Silicone Structural Adhesive
4. Dow Corning® 983 Silicone Glazing and Curtainwall Adhesive/Sealant


Jaime D. Gascon, P.E.
Chief, Product Control Division

NOA No 06-1025.03

Expiration Date: December 21, 2011

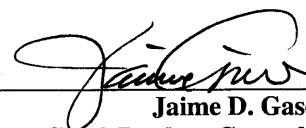
Approval Date: December 21, 2006

Reynolds Metals Company dba Alcoa Architectural Products

NOTICE OF ACCEPTANCE: EVIDENCE PAGE

F. STATEMENTS.

1. No interest letter prepared by Milton Cubas, P.E., Inc. dated 10/18/06, signed and sealed by Milton Cubas, P.E.
2. Statement of compliance with the Florida Building Code prepared by Milton Cubas, P.E., Inc., dated 10/18/06, signed and sealed by Milton Cubas, P.E.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-1025.03

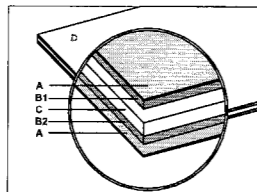
Expiration Date: December 21, 2011
Approval Date: December 21, 2006

GENERAL NOTES:

These Reynobond® composite panels shall be used for wall construction only. Each actual wall project shall be constructed using the details shown on these drawings as minimum required specifications.

MAXIMUM WIDTH 62" ± MAXIMUM LENGTH 420" (recommended max. 240")

- A - SKIN 0.020" ALUMINUM ALLOY 3105-H25
- B1 - TIE LAYER BETWEEN SKIN AND CORE
- B2 - PANELS CONTAIN ONE TIE LAYER THAT INCLUDES KEVLAR® Brand Fiber
- C - CORE POLYMERIC COMPOUND 0.10" THICK
- D - FINISH - Reverse Roll Coated Paint



REQUIRED TESTS

DESCRIPTION	TEST
a) Tensile Test	ASTM E-8
b) Self Ignition	ASTM D-1929
c) Flame Spread 1	ASTM E-84
d) Smoke Developed 1	ASTM E-84
e) Rate Burning	ASTM D-635

BILL OF MATERIALS

- 1. PANEL MATERIAL:** PE Reynobond® with KEVLAR® (0.157") aluminum composite material as manufactured by Alcoa
- 2. ALUMINUM EXTRUSIONS.** Aluminum alloy 6063 - T6 temper, mill finish as manufactured by Alcoa or others.
 - a) FRAME (CONTINUOUS)
 - b) CLIP (CONTINUOUS)
 - c) STIFFENER (CONTINUOUS)
 - d) RETAINER (CONTINUOUS)
 - e) CORNER ANGLE
- 3. METAL STUDS** 16ga galvanized or painted steel (per applicable codes to prevent corrosion) with minimum properties of 50 Ksi yield, 65 Ksi ultimate. Minimum 1 5/8" flange, 6" web.
- 4. STUD TO TRACK FASTENERS** and **ANGLE TO BRIDGING FASTENERS** and **ANGLE TO STUD FASTENERS** #8-18 x 3/4" Phillips Head Galvanized Steel Pan Tek Screw or similar.
- 5. PANEL TO FRAME FASTENERS.** #10 x 1" wafer head, self drilling, self tapping, galvanized steel screw. At 16" O.C. around Perimeter of Panel.
- 6. HORIZONTAL AND VERTICAL JOINT SILICONE** (as needed).
 - a) Dow Corning #995 - 170 PSI - One part. Horizontal, Vertical and perimeter joint - Weather seal.
 - b) Dow Corning #983 - 170 PSI - Two parts. Cap Bead - Weather seal.
 - c) Dow Corning #795 - 100 PSI - One part. Panel to frame, frame and corner weather seal.
 - d) Dow Corning #795 - 100 PSI - One part.
 - e) Dow Corning #795 - 100 PSI - One part.
- 7. BACKER ROD.** (as needed)
 - a) 5/8" diameter, open cell.
 - b) 1 1/2" diameter, open cell.
 - c) 2" diameter, open cell.

- 8. CLIP TO STUD FASTENER** (as needed)
And
RETAINER TO STUD FASTENER (as needed)
 - a) # 14 x 1.5" HWH galvanized Tek Steel or equal
 - b) #12 x 2" HWH galvanized Tek Steel or equal

SCREW CHART AND SCHEDULE (Aluminum clip to metal stud)

Design Pressure	Screw #	Joint Size	Maximum Spacing Metal Studs
± 90 PSF	#14	1/2" to 3/4"	24" O.C.
	(2) #12	1 1/2" (Other than perimeter)	24" O.C.
	#14	PERIMETER	24" O.C.
± 120 PSF	#14	1/2" to 3/4"	16" O.C.
	(2) #12	1 1/2" (Other than perimeter)	16" O.C.
	#14	PERIMETER	16" O.C.

- 9. TRACK TO WOOD FRAME FASTENER.** 5/16" x 2.5" galvanized steel LAG screw with washer. At 12" O.C. MAX.

- 10. 2 x 12" YELLOW PINE WOOD.**

- 11. METAL TRACK** 16ga galvanized steel or painted (per applicable codes to prevent corrosion) with minimum properties of 50 Ksi yield, 65 Ksi ultimate.

- 12. BRIDGING CHANNEL.** 16ga galvanized or painted (per applicable codes to prevent corrosion) steel with minimum properties of 50 Ksi yield, 65 Ksi ultimate. Standard 1/2" flange, 1 1/2" web. WALLS UP TO 10' HEIGHT 1 ROW @ MID-HEIGHT. WALLS EXCEEDING 10' HEIGHT BRIDGING ROW SPACED NOT TO EXCEED 5' 0" O.C.

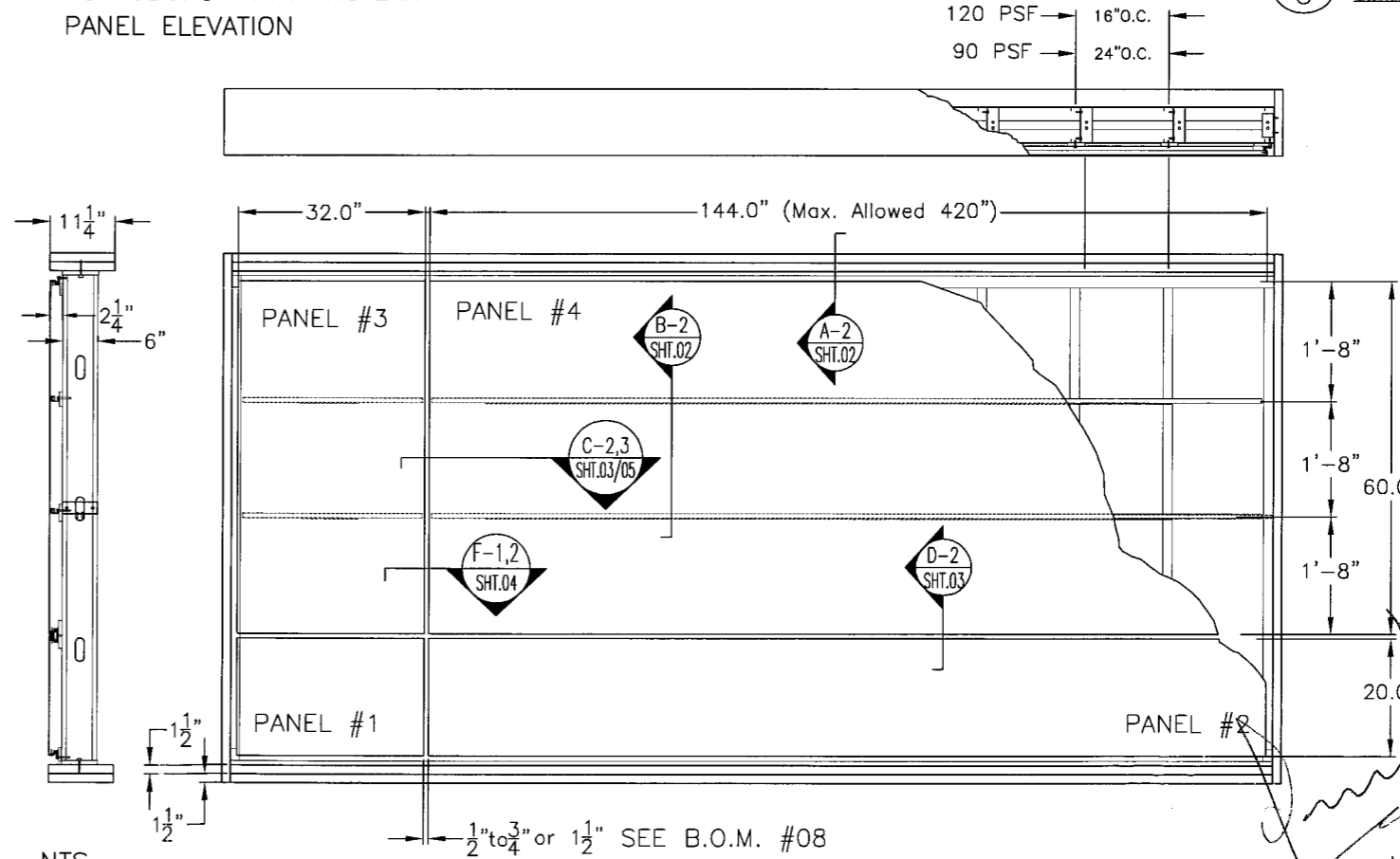
- 13. UTILITY ANGLE.** 16ga galvanized or painted (per applicable codes to prevent corrosion) steel with minimum properties of 50 Ksi yield, 65 Ksi ultimate. Standard 6" wide, 2" leg dimensions. (Bridge Clip or equal).

- 14. SHIMS** Standard glazing shims as needed.

- 15. Uni-Grip** 1/4" neoprene hollow gasket.

Approved as complying with the Florida Building Code
 Date: DECEMBER 21, 2006
 NOA# 06-1025.03
 Miami Dade Product Control Division
 By: *[Signature]*

REYNOBOND® WITH KEVLAR®
 PANEL ELEVATION



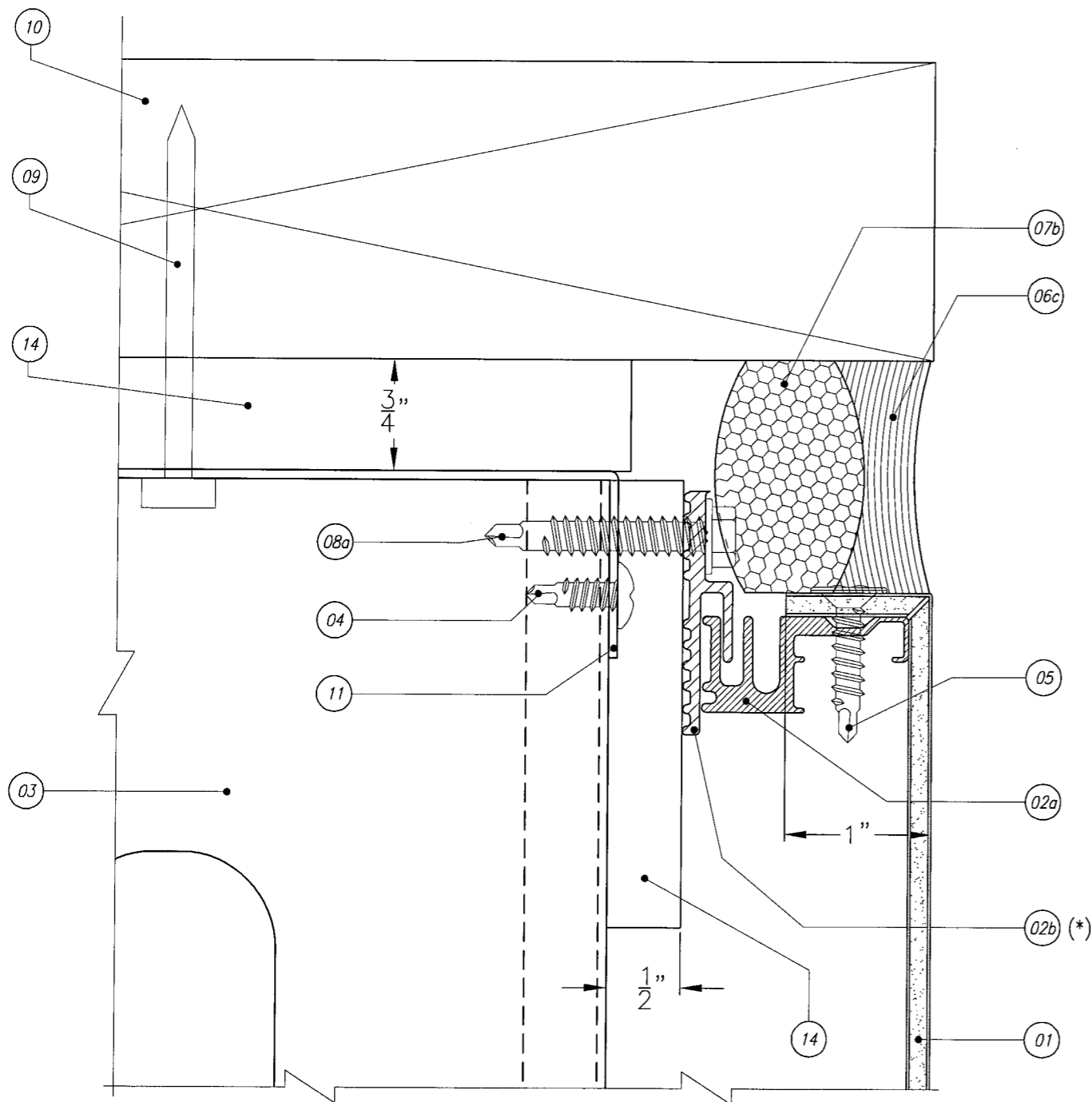
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Handwritten notes:
 10-18-06
 1'-8" (vertical dimension)
 60.0" (total height)
 20.0" (bottom height)
 144.0" (Max. Allowed 420") (width)

<p>Alcoa Architectural Products 50 Industrial Boulevard Eastman, Georgia 31023 USA Tel: (478) 374 6871</p> <p>CONFIDENTIAL AND PROPRIETARY PROPERTY OF ALCOA ARCHITECTURAL PRODUCTS Which May Be Used Only For Its Benefit And Which May Not Be Reproduced Or Disclosed To Others. This Document And All Copies Must Be Returned On Demand.</p>	SUBMITTAL DWG. DWG. NO. MD-001 MIAMI DADE BUILDING CODE	DATE: 10/12/06
	REYNOBOND® WITH KEVLAR® BILL OF MATERIALS PANEL ELEVATION	REVISION: 05
	SHEET: 01 OF 05	

REYNOBOND® WITH KEVLAR®
TOP/BOTTOM JOINT

A
2 SECTION DETAIL
LEFT / RIGHT



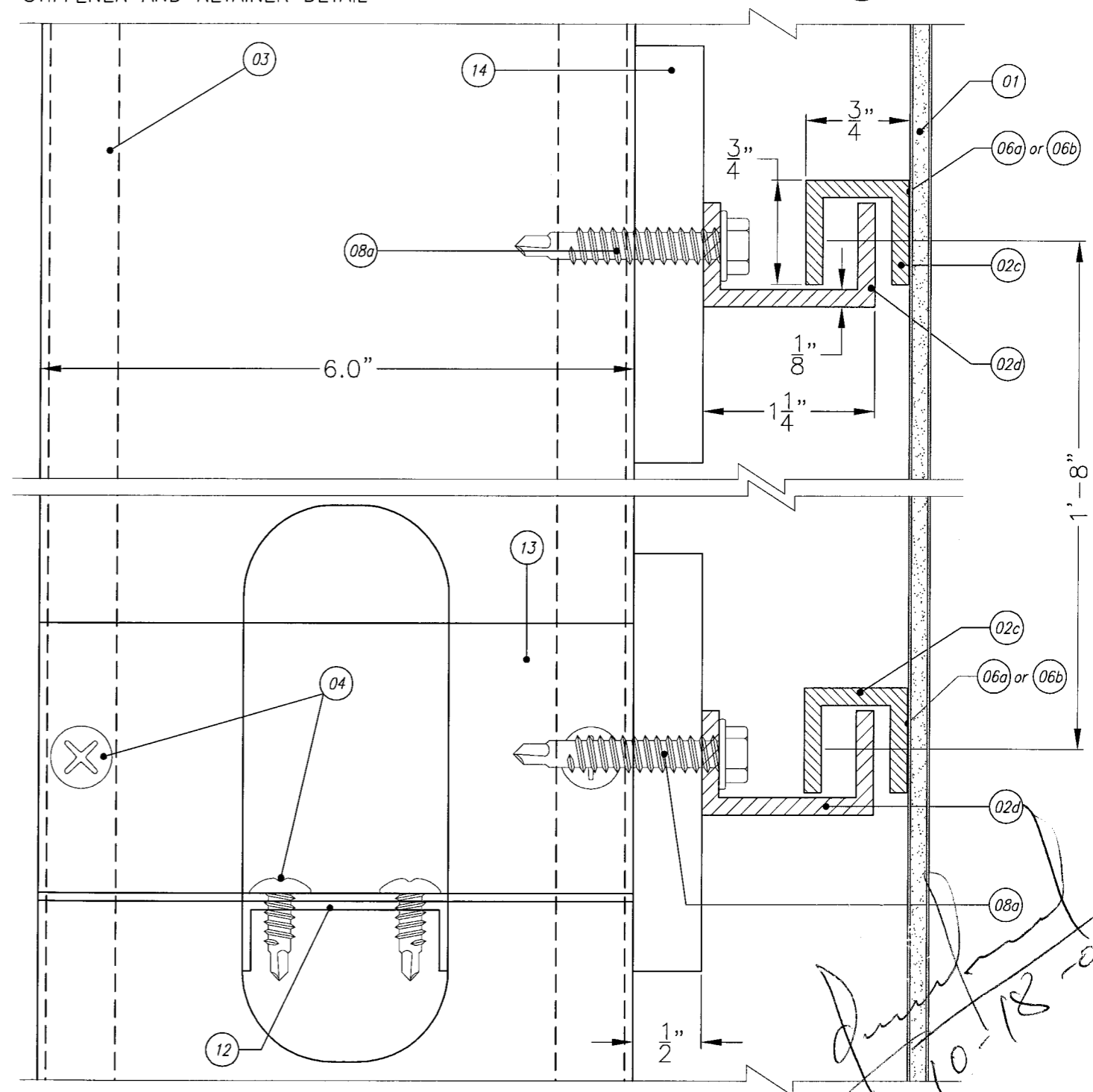
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(*) NOTE: (02b) THE CLIP MAY BE INSTALLED IN EITHER HALF SECTION OR FULL SECTION OF TERMINAL POINT

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Miami Dade Product Control
Division
By [Signature]


REYNOBOND® WITH KEVLAR®
STIFFENER AND RETAINER DETAIL

B
2 SECTION DETAIL
LEFT / RIGHT



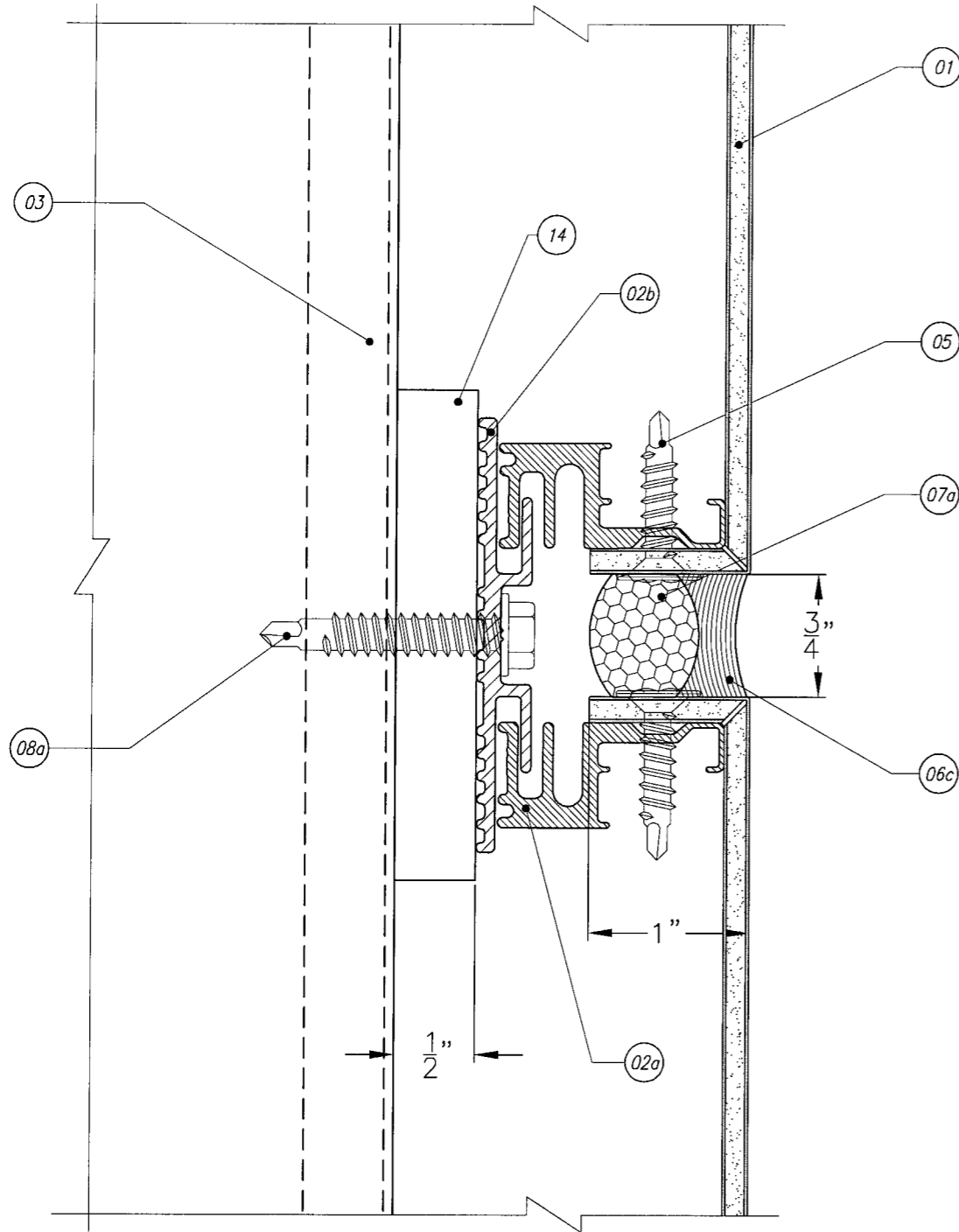
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10-18-06

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	CONFIDENTIAL AND PROPRIETARY PROPERTY OF ALCOA ARCHITECTURAL PRODUCTS Which May Be Used Only For Its Benefit And Which May Not Be Reproduced Or Disclosed To Others. This Document And All Copies Must Be Returned On Demand.	REYNOBOND® WITH KEVLAR® SECTION DETAIL- INTERSECTION OF PANEL ASSEMBLY AND TEST CHAMBER STIFFENER AND RETAINER DETAIL
		SHEET: 02 OF 05

REYNOBOND® WITH KEVLAR®
HORIZONTAL JOINT

$\frac{D}{2}$ SECTION DETAIL
LEFT / RIGHT



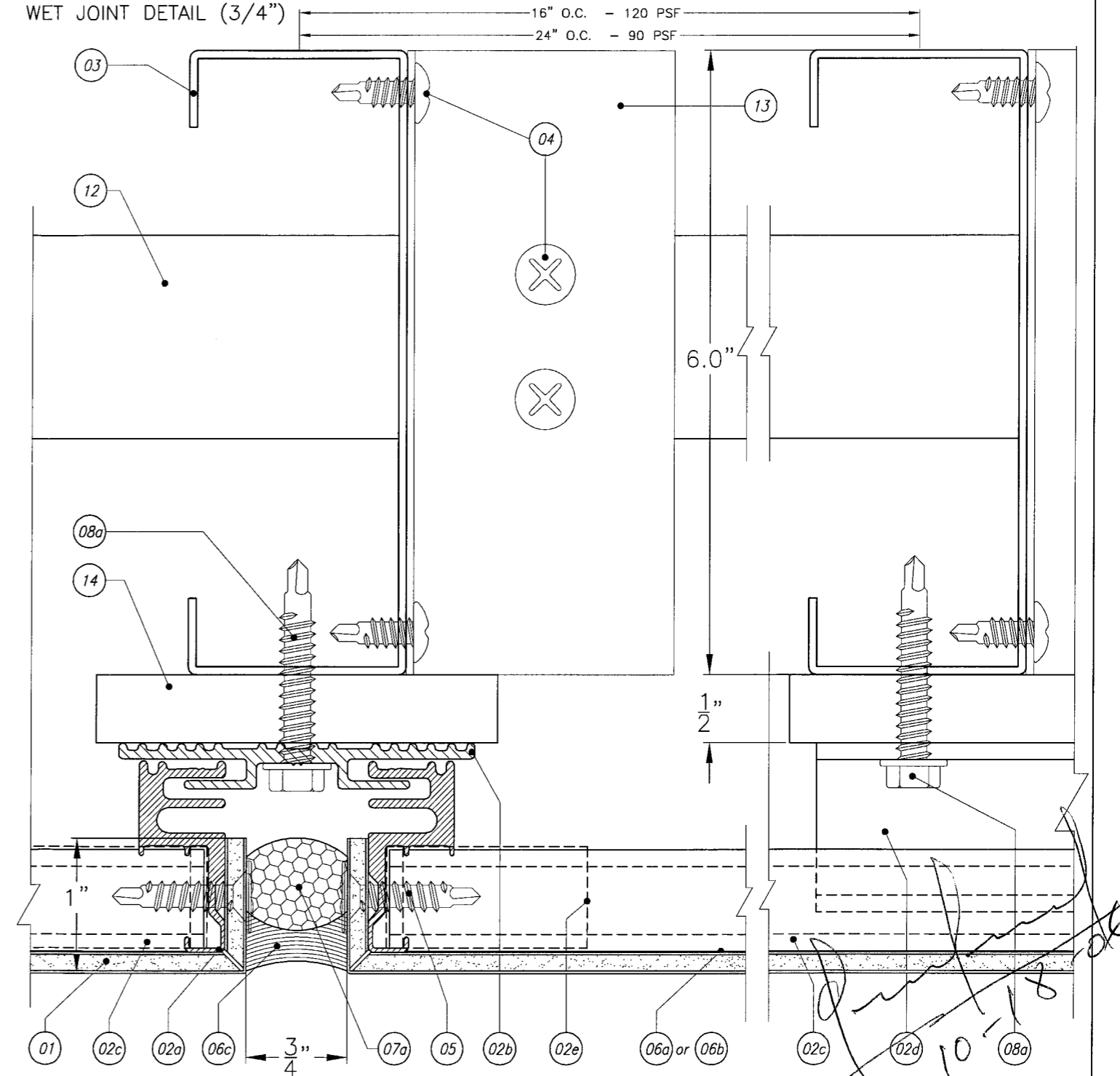
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NOTE: All horizontal joints are similar, with differences in joint width, weather sealing and clip orientation reflected on sheets 4-5

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REYNOBOND® WITH KEVLAR®
VERTICAL JOINT
WET JOINT DETAIL (3/4")

$\frac{C}{2}$ SECTION DETAIL
LEFT / RIGHT



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DWG. NO. MD-001
MIAMI DADE BUILDING CODE

REYNOBOND® WITH KEVLAR®
HORIZONTAL JOINT ON METAL STUDS
VERTICAL JOINT ON METAL STUD

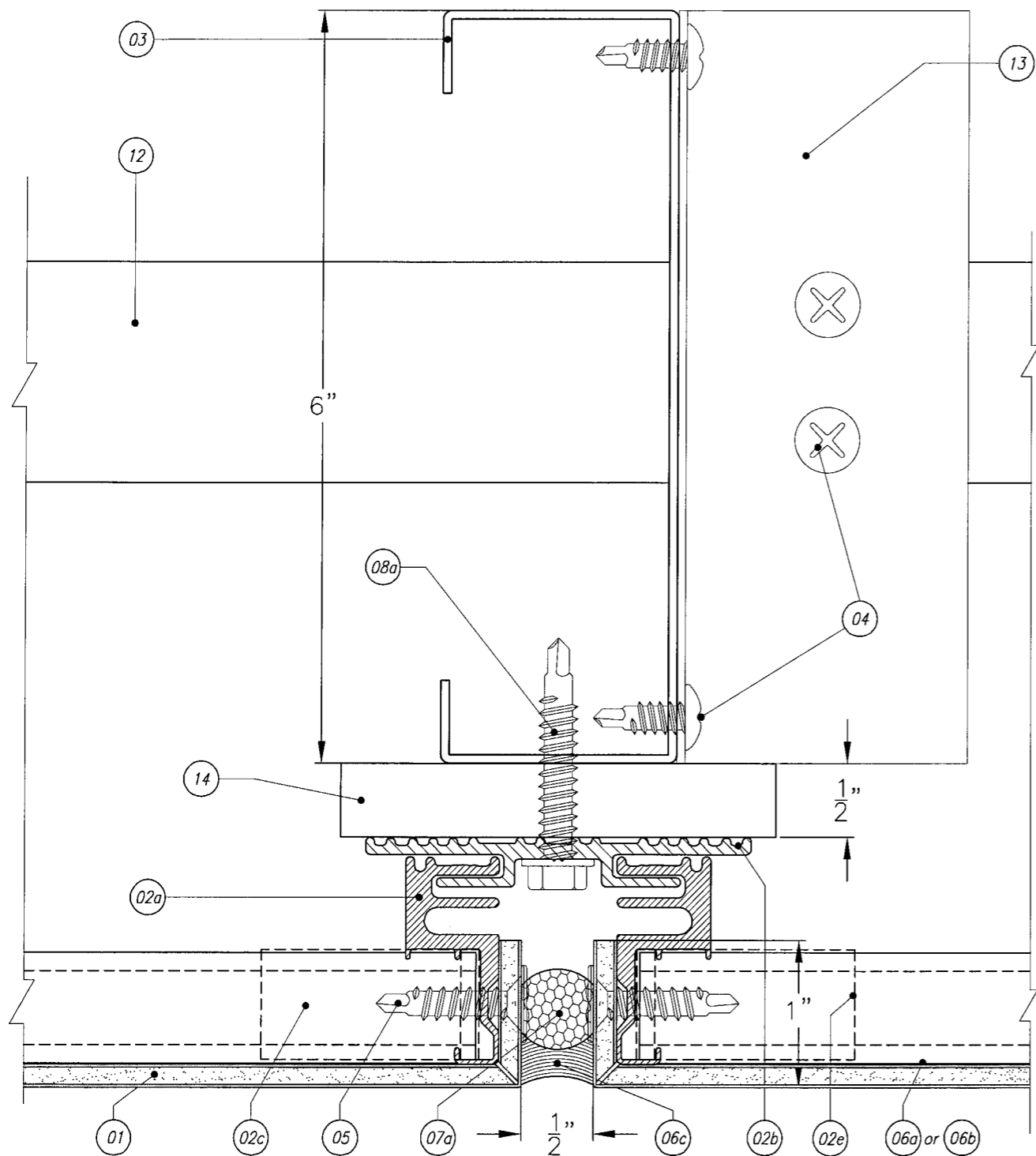
DATE: 10/12/06

REVISION: 05

SHEET:
03 OF 05

REYNOBOND® WITH KEVLAR®
WET JOINT DETAIL (1/2")

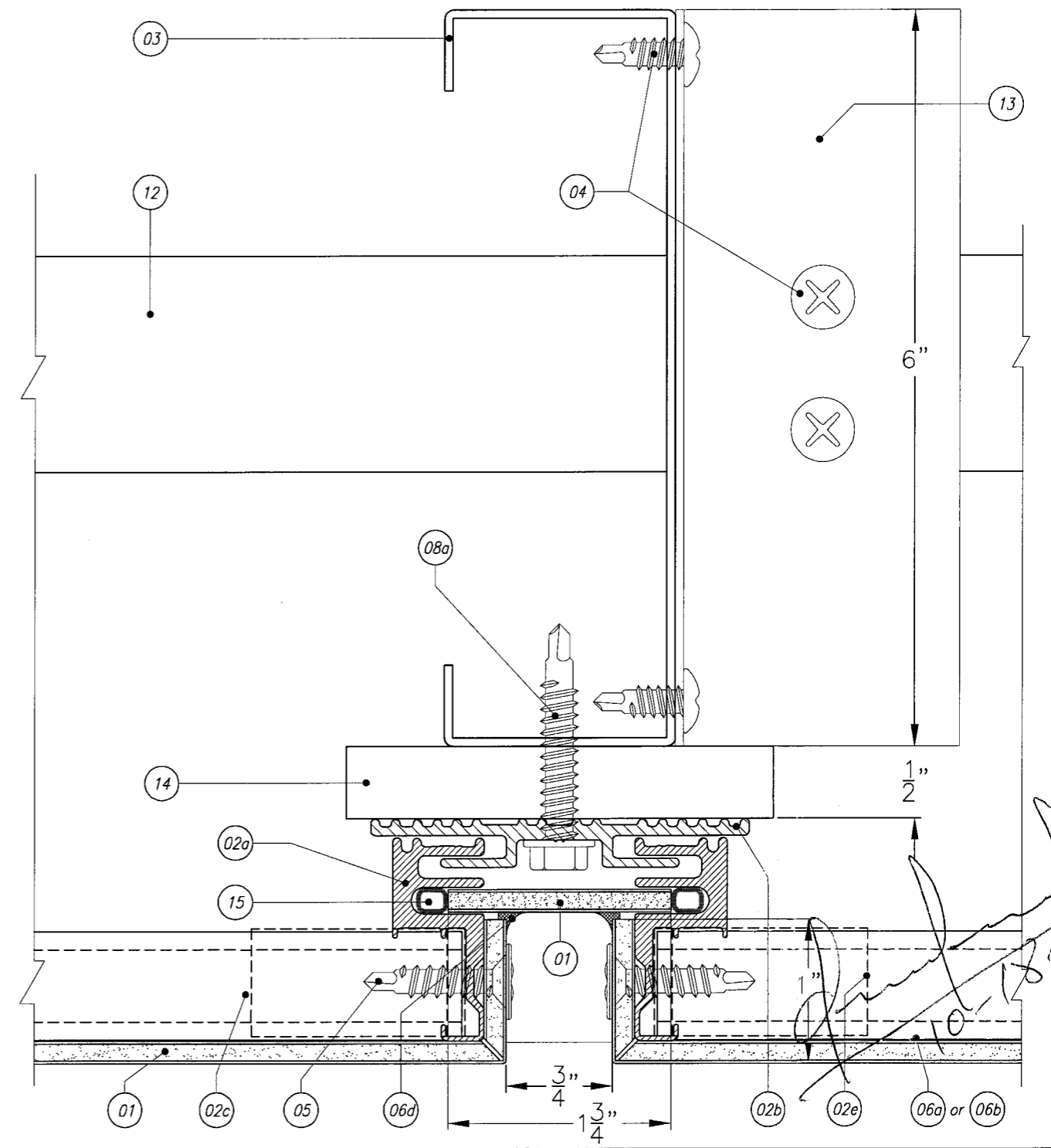
F
1 SECTION DETAIL
LEFT / RIGHT



NTS

REYNOBOND® WITH KEVLAR®
DRY JOINT DETAIL (3/4")

F
2 SECTION DETAIL
LEFT / RIGHT



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Date DECEMBER 31, 2006
NOAH 06-1025-03
Miami Dade Product Control
Division
By *[Signature]*

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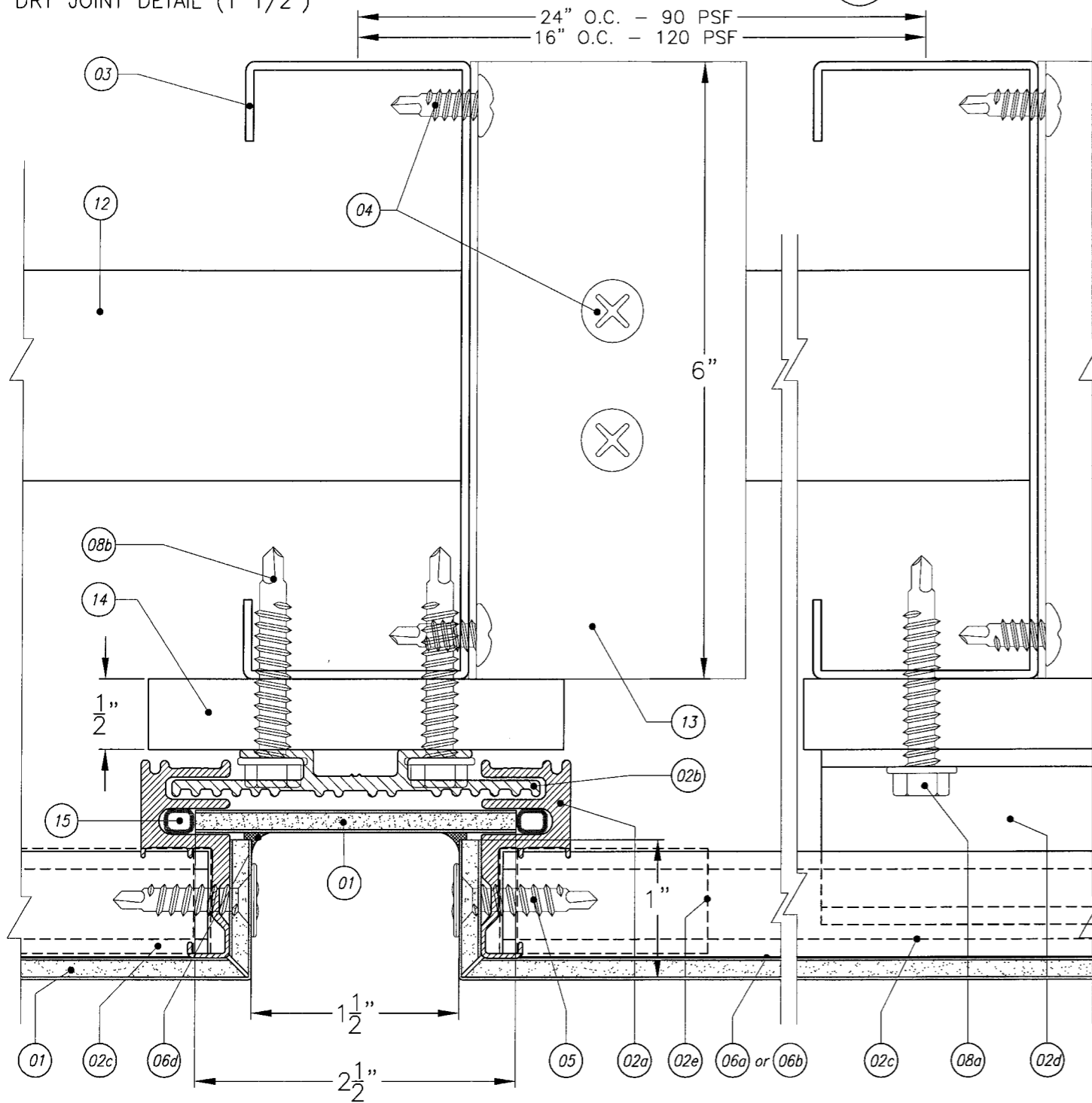
REYNOBOND® WITH KEVLAR®
WET JOINT DETAIL (1/2")
DRY JOINT DETAIL (3/4")

DATE: 10/12/06

REVISION: 05

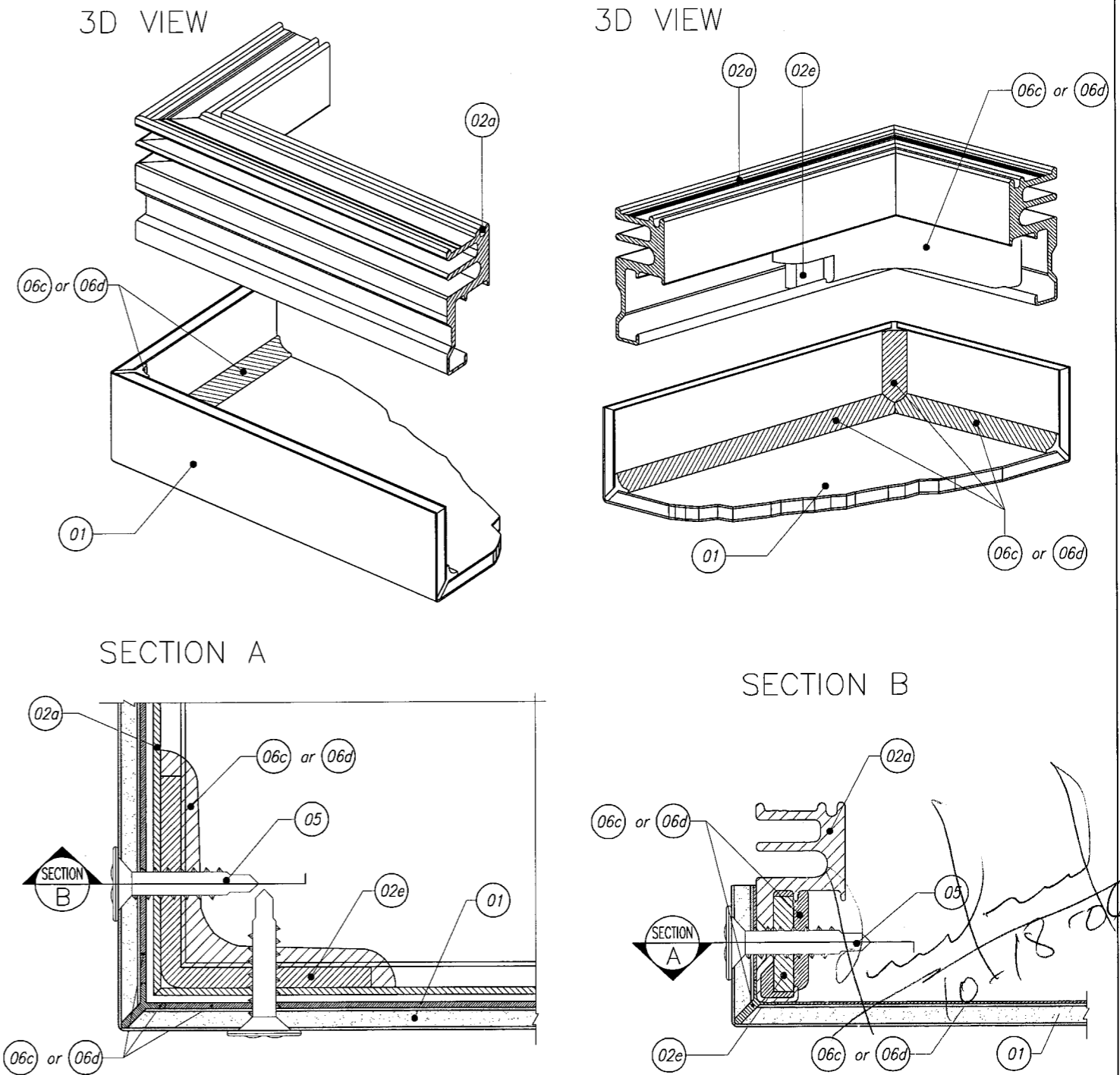
SHEET:
04 OF 05

REYNOBOND® WITH KEVLAR®
 DRY JOINT DETAIL (1 1/2")




C
3 SECTION DETAIL
 LEFT / RIGHT

REYNOBOND® WITH KEVLAR®
 3D VIEW AND SECTIONS - CORNER



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 Miami Dade Product Control
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 By *[Signature]*

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	CONFIDENTIAL AND PROPRIETARY PROPERTY OF ALCOA ARCHITECTURAL PRODUCTS Which May Be Used Only For Its Benefit And Which May Not Be Reproduced Or Disclosed To Others. This Document And All Copies Must Be Returned On Demand.	REYNOBOND® WITH KEVLAR® DRY JOINT DETAIL (1 1/2") 3D VIEW AND SECTIONS - CORNER FRAME DETAIL ONLY DRY SEAL
		SHEET: 05 OF 05