



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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

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® Wall Panel

APPROVAL DOCUMENT: Drawing No. **MD-002**, titled "Reynobond®", sheets 1 through 7 of 7, prepared by Alcoa Architectural Products, dated 06/22/09, with revision "06", 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: 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 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



Signature
 08/12/09

NOA No. 09-0625.01
Expiration Date: August 12, 2014
Approval Date: August 12, 2009
 Page 1

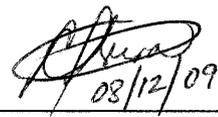
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **MD-002**, titled "Reynobond®", sheets 1 through 7 of 7, prepared by Alcoa Architectural Products, dated 06/22/09, with revision "06", signed and sealed by Milton Cubas, P.E.

B. TESTS

1. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Reynobond® Wall Panels, prepared by Hurricane Test Laboratory, LLC, Test Report No. **0423-0218-06**, dated 04/17/09, signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Reynobond® Wall Panels, prepared by Hurricane Test Laboratory, LLC, Test Report No. **0423-0112-07**, dated 04/17/09, signed and sealed by Vinu J. Abraham, P.E.
3. Test report on Surface Burning Characteristics of the Reynobond® panels with LDPE core in accordance with ASTM E84-05, prepared by Omega Point Laboratories, Inc., Report No. **8902-118985**, dated 06/14/04, signed by Eric G. Hutchinson.
4. Test report on Surface Burning Characteristics of the 4mm PE Reynobond® panels in accordance with ASTM E84-05, prepared by Omega Point Laboratories, Inc., Report No. **8902-122031**, dated 11/12/04, signed by Eric G. Hutchinson.
5. Test report on Surface Burning Characteristics of the 4mm Reynobond® panels with FR core in accordance with ASTM E84-05, prepared by Omega Point Laboratories, Inc., Report No. **8902-117346**, dated 02/06/04, signed by Guy A. Haby.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0625.01
Expiration Date: August 12, 2014
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B. TESTS (Cont.) “Submitted under NOA # 06-1025.03”

6. 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.
7. 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.
8. 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”, pages 1 through 36 of 36, prepared by Milton Cubas, P.E., Inc., signed and sealed by Milton Cubas, P.E.

D. QUALITY ASSURANCE

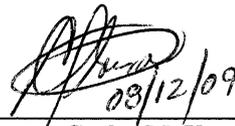
1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS

1. Dow Corning® 795 Silicone Building Sealant.
2. Dow Corning® 995 Silicone Structural Adhesive.
3. Dow Corning® 983 Silicone Glazing and Curtainwall Adhesive/Sealant.

F. STATEMENTS

1. No interest letter prepared by Milton Cubas, P.E., Inc. dated 03/23/09, 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 03/23/09, signed and sealed by Milton Cubas, P.E.
3. Statement of compliance with the Florida Building Code prepared by Hurricane Test Laboratory, LLC, dated 04/17/09, signed and sealed by Vinu J. Abraham, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 09-0625.01

Expiration Date: August 12, 2014
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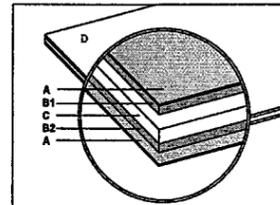
GENERAL NOTES:

These Reynobond® composite panels shall be used for wall, soffit, canopy or fascia construction, or as cladding system. Each actual project shall be constructed using the details shown on these drawings as minimum required specifications. Panels can run horizontal or vertical (steel metal frame must be 90 degree to the stiffener/retainer)

- A - METAL SKIN
- B1 - B2 - TIE LAYER BETWEEN SKIN AND CORE
- C - CORE POLYMERIC COMPOUND (FR - Fire Retardant) (PE - Polyethylene)
- 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) Thermal Barrier | ASTM E119 |
| f) Interior Finish Application | |
| Fire Test | UL 1715 |
| g) Multi-story Fire Test | NFPA 285 |
| h) Fire Test of Building Construction & Materials | UL 263 R8343 |



BILL OF MATERIALS

1. PANEL MATERIAL:

Reynobond® metal composite material 4 mm and 6mm thick as manufactured by Alcoa Architectural Products.

- a) FR ALUMINUM PANEL SKIN THICKNESS 0.020" ALUMINUM ALLOY
 - b) PE ALUMINUM PANEL SKIN THICKNESS 0.020" ALUMINUM ALLOY
 - c) FR ZINC PANEL SKIN THICKNESS 0.028" ZINC ALLOY Rheinzink(R) Titanium Zinc
- NOTES: 1) ONLY UP TO 100 PSF,
2) PE & Zinc are NOT a Fire Retardant product per IBC 1407
- e) PE STAINLESS STEEL PANEL SKIN THICKNESS 0.018" SS ALLOY 304 or 316L
 - f) FR STAINLESS STEEL PANEL SKIN THICKNESS 0.018" SS ALLOY 304 or 316L
 - g) PE TITANIUM SKIN THICKNESS 0.018", back skin SS ALLOY 304 or 316L
 - h) FR TITANIUM SKIN THICKNESS 0.018", back skin SS ALLOY 304 or 316L

2. ALUMINUM EXTRUSIONS:

Aluminum alloy 6063 - T5 Temper, mill finish as manufactured by Alcoa or others.

- a) FRAME (CONTINUOUS)
- b) CLIP (CONTINUOUS)
- c) STIFFENER (CONTINUOUS, max. 2 unit per panel all length @max 20" O.C.spacing)
- 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. (Calculations must be provided by registered Engineer.)

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. All Panel Perimeter Returns.

6. HORIZONTAL AND VERTICAL JOINT SILICONE (as needed).

- a) Dow Corning #995 - 170 PSI - One part
 - b) Dow Corning #983 - 170 PSI - Two parts
 - c) Dow Corning #795 - 100 PSI - One part Horizontal, Vertical and perimeter joint - Weather seal.
 - d) Dow Corning #795 - 100 PSI - One part Cap Bead - Weather seal.
 - e) Dow Corning #795 - 100 PSI - One part Panel to frame, frame and corner weather seal. (Only for dry seal system wet seal do not apply)
 - f) Where water intrusion is not required the system can be used as rain screen
- No wheater silicone will be required - B.O.M. # 15, # 06d, # 06e, # 06c, # 07a
Use stainless steel screw recomended B.O.M. # 05, # 08

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 AND RETAINER TO SUBSTRATE FASTENER (as needed)

- a) # 14 - HEX WASHER HEAD - 1 1/2" - DRILL POINT galvanized Tek Steel or equivalent
- c) # 12 - HEX WASHER HEAD - 2 1/2" - DRILL POINT galvanized Tek Steel or equivalent

SCREW CHART AND SCHEDULE

| Reynobond Product | Substrate Backer | Stud Spacing | Max Screw Spacing | Design Presure PSF | Impact Rating | Building Applicability |
|---|---|--------------|-------------------|--------------------|---------------------|------------------------|
| Reynobond PE and FR | | | | | | |
| Aluminum | Metal Stud 24" O.C. NO Backer Required | 24" OC | (1) 24" OC | 100 | Small Missil Impact | Above 30 Feet Only |
| Titanium | | | | | | |
| Stainless Steel | | | | | | |
| Zinc** | | | | | | |
| *Reynobond Zinc only available in FR | Metal Stud 16" O.C. NO Backer Required | 16" OC | (1) 16" OC | 120 | | |
| *Reynobond Zinc is not approved for all applicable installation conditions however, only at a design pressure of 100 psf Note: See B.O.M. # 1c | | | (2) 16" OC | 130 | | |

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

10. YELLOW PINE.

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, 2" leg dimensions. (Bridge Clip or equal).

14. SHIMS Standard glazing shims as needed.

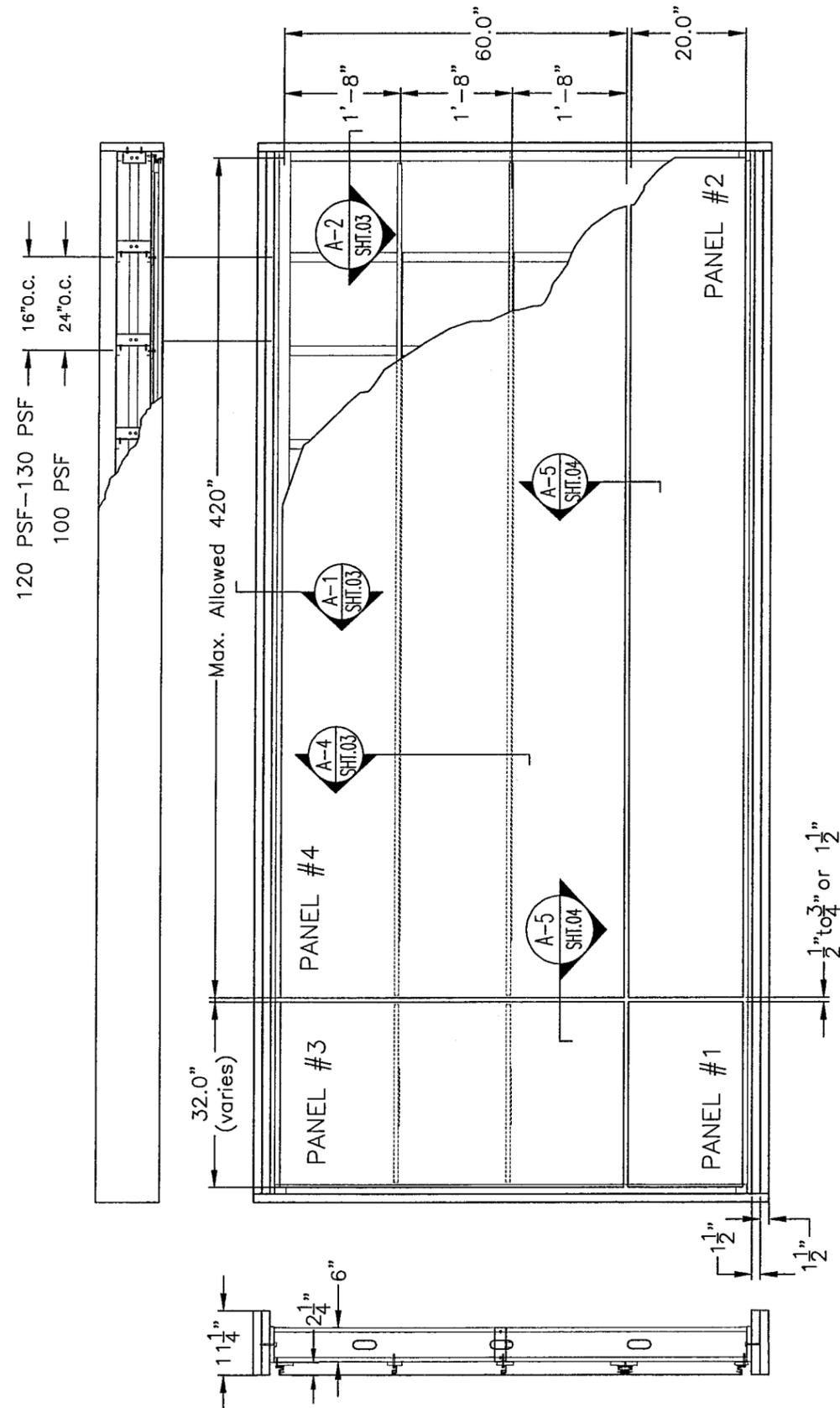
15. Uni-Grip 1/4" neoprene hollow gasket.

Approved as complying with the Florida Building Code
Date: 08/12/2009
NOA# 07-0625-01
Miami Dade Product Control Division
By: [Signature]

[Handwritten signature and date: 08/24/09]

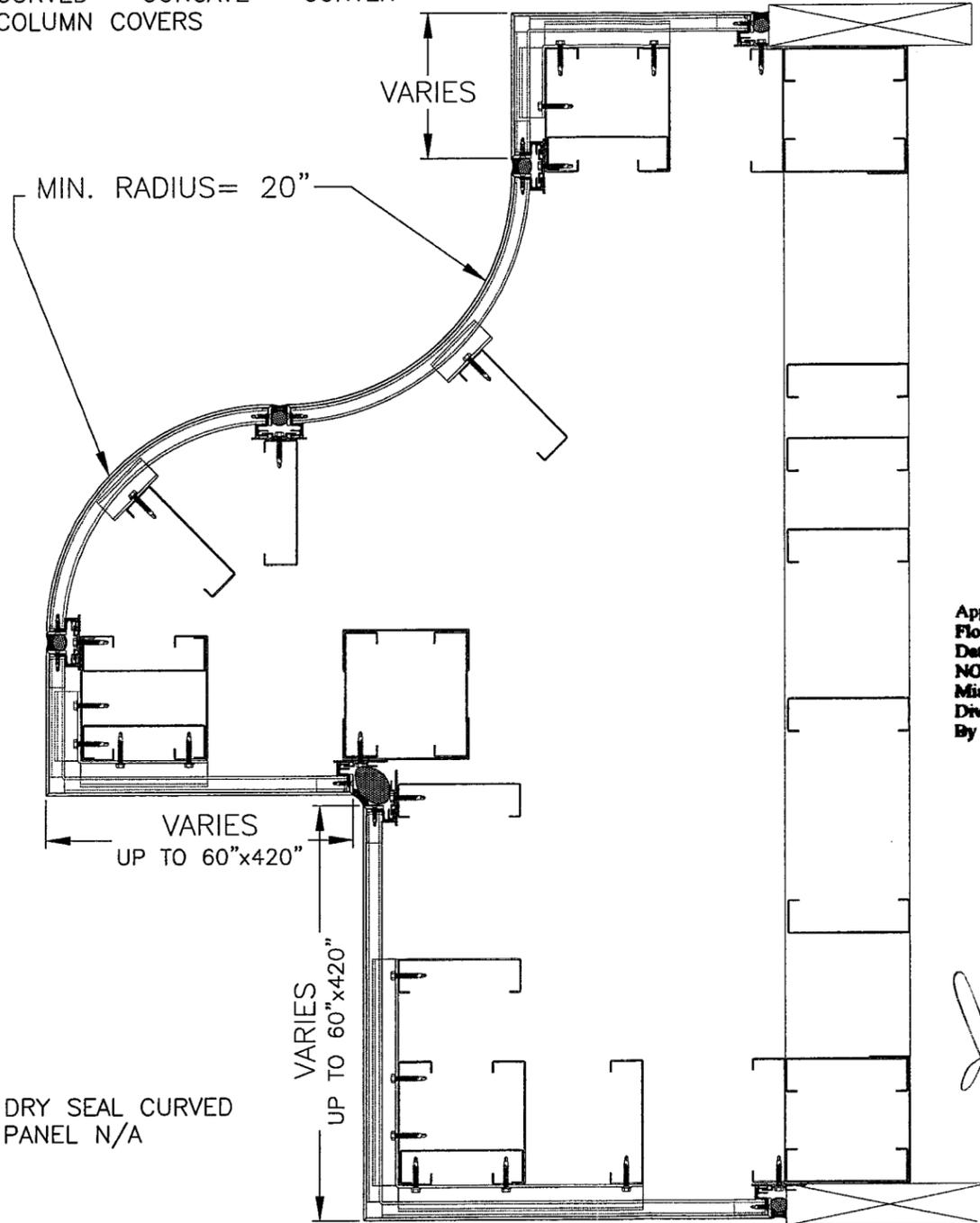
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|--|--|----------------------------|
| <p>Alcoa Architectural Products 50 Industrial Boulevard Eastman, Georgia 31023 USA Tel: (478) 374 6871</p> | <p>SUBMITTAL DWG. DWG. NO. MD-002 MIAMI DADE BUILDING CODE</p> | DATE: 06-22-09 |
| | | REVISION: 06 |
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REYNOBOND®
 PANEL ELEVATION - OVER STEEL METAL FRAME



SEE B.O.M. #08 (SCREW TYPE SELF DRILLING)

- REYNOBOND®
 CORNER CONDITIONS
 INTERNAL - EXTERNAL
 WINDOWS - DOORS - JAMB CONDITIONS
 SOFFIT & PARAPET CONDITIONS
 CURVED - CONCAVE - CONVEX
 COLUMN COVERS



NOTE: DRY SEAL CURVED
 PANEL N/A

NTS

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 NOA# 07-0625.01
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 Division
 By *[Signature]*

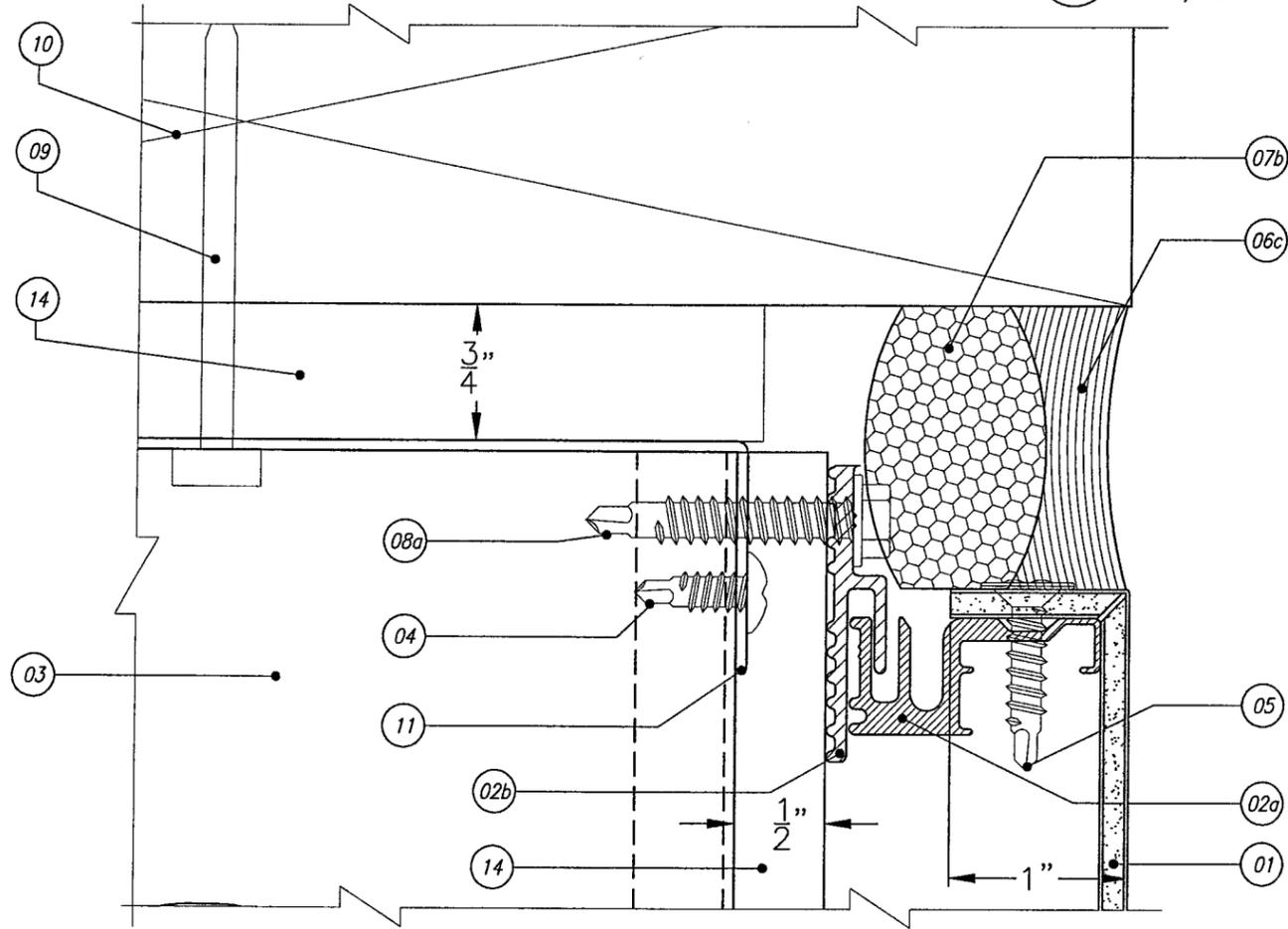
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| | | |
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| | | SHEET: 02 OF 07 |

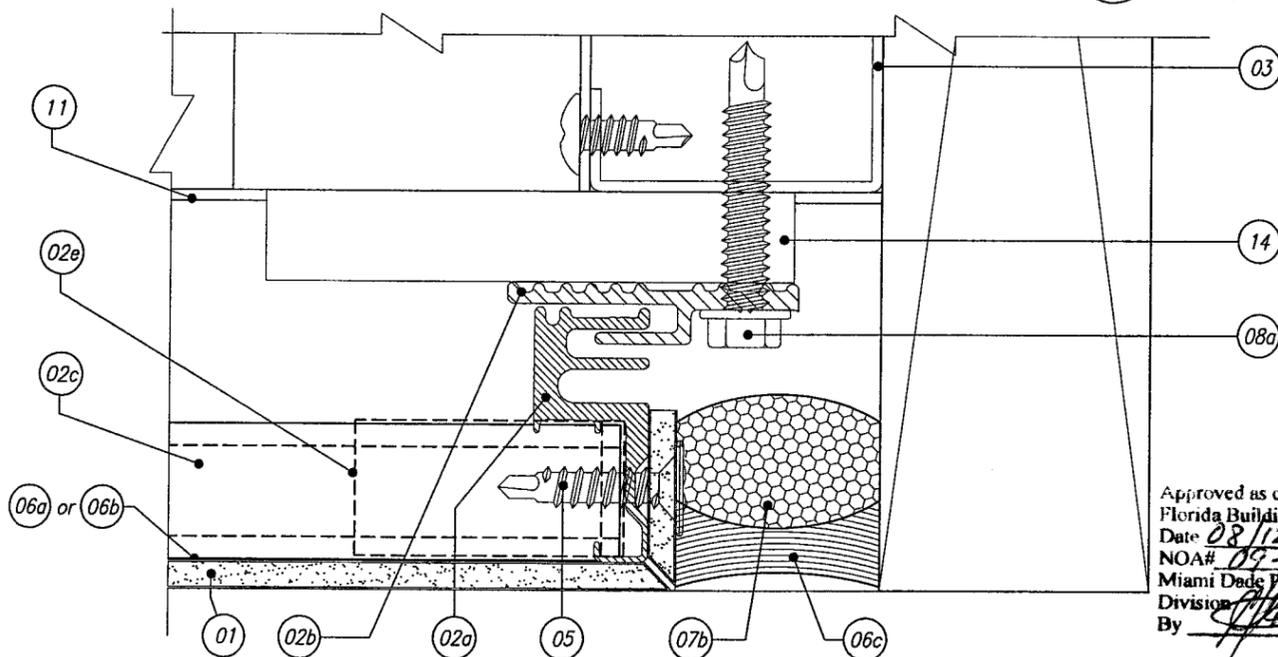
REYNOBOND® ON METAL STUD,
TOP/BOTTOM JOINT

A SECTION DETAIL
1 TOP / BOTTOM



REYNOBOND® ON METAL STUDS
LEFT/RIGHT JOINT

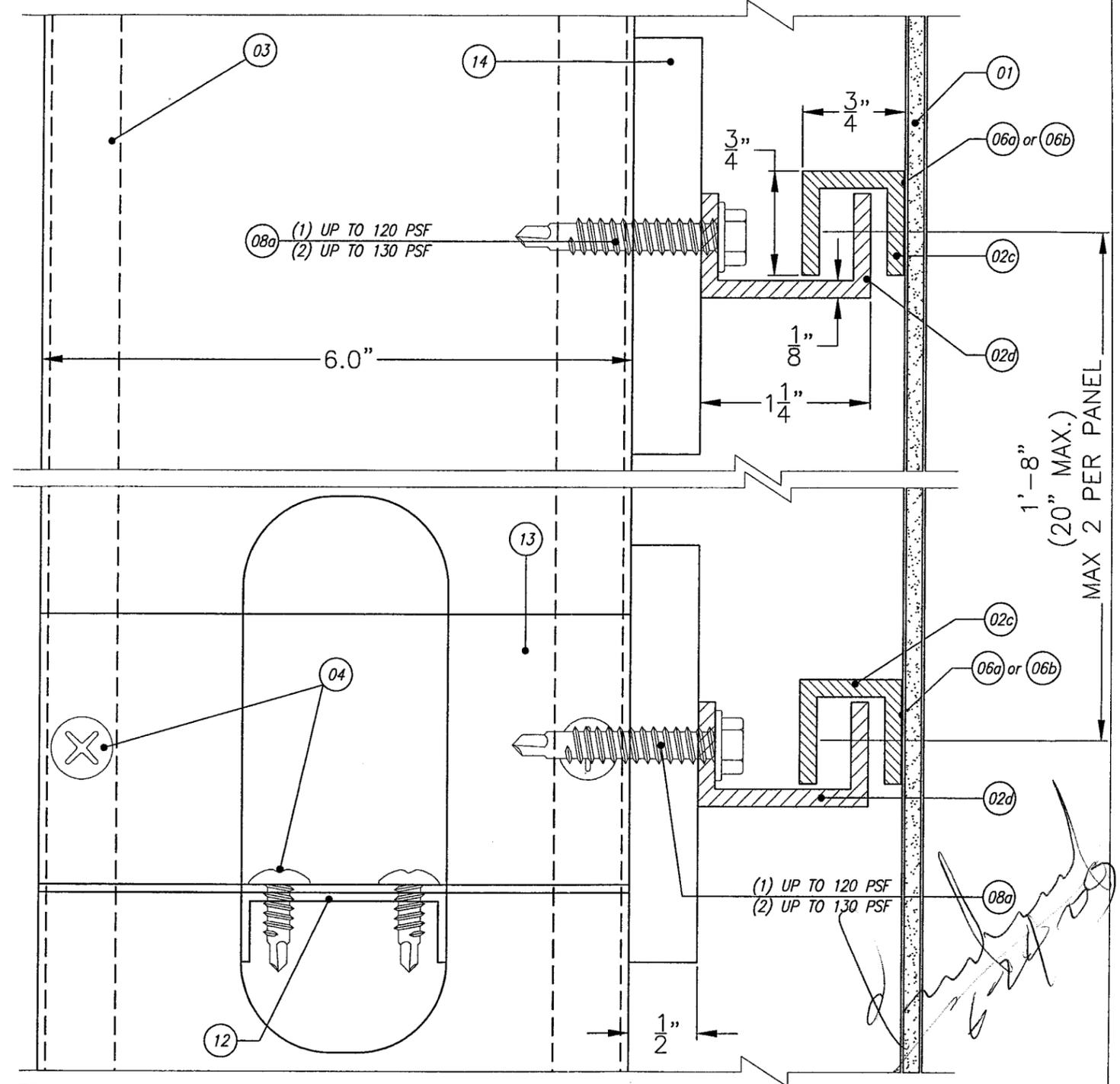
A SECTION DETAIL
2 LEFT / RIGTH



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NOA# 09-0625.01
Miami Dade Product Control
Division
By *[Signature]*

REYNOBOND® ON METAL STUDS
STIFFENER AND RETAINER DETAIL

A SECTION DETAIL
3 LEFT / RIGTH



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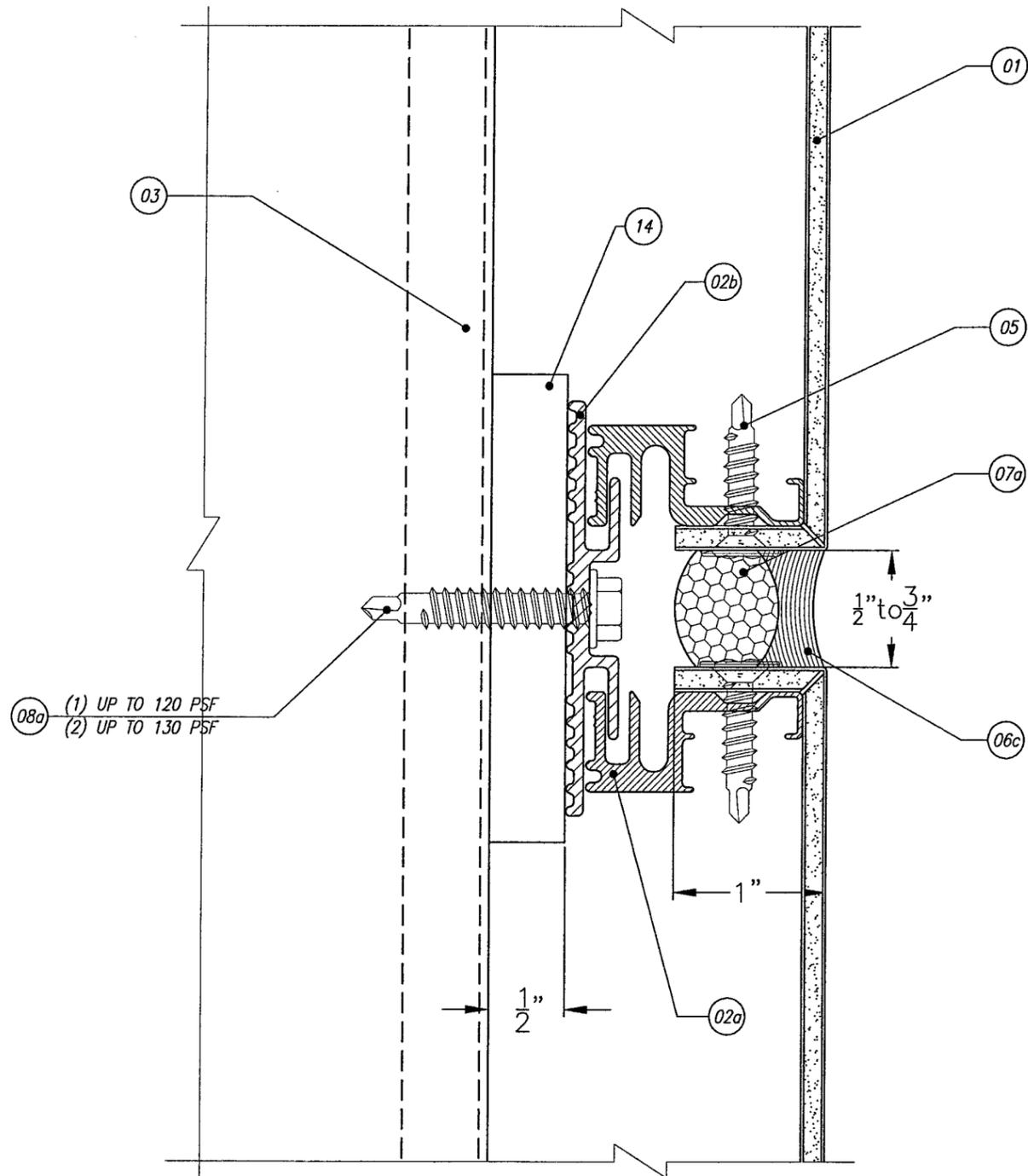
REYNOBOND® SMALL MISSILE IMPACT
SECTION DETAIL
STIFFENER AND RETAINER DETAIL OVER METAL STUDS

DATE: 06-22-09
REVISION: 06

SHEET:
03 OF 07

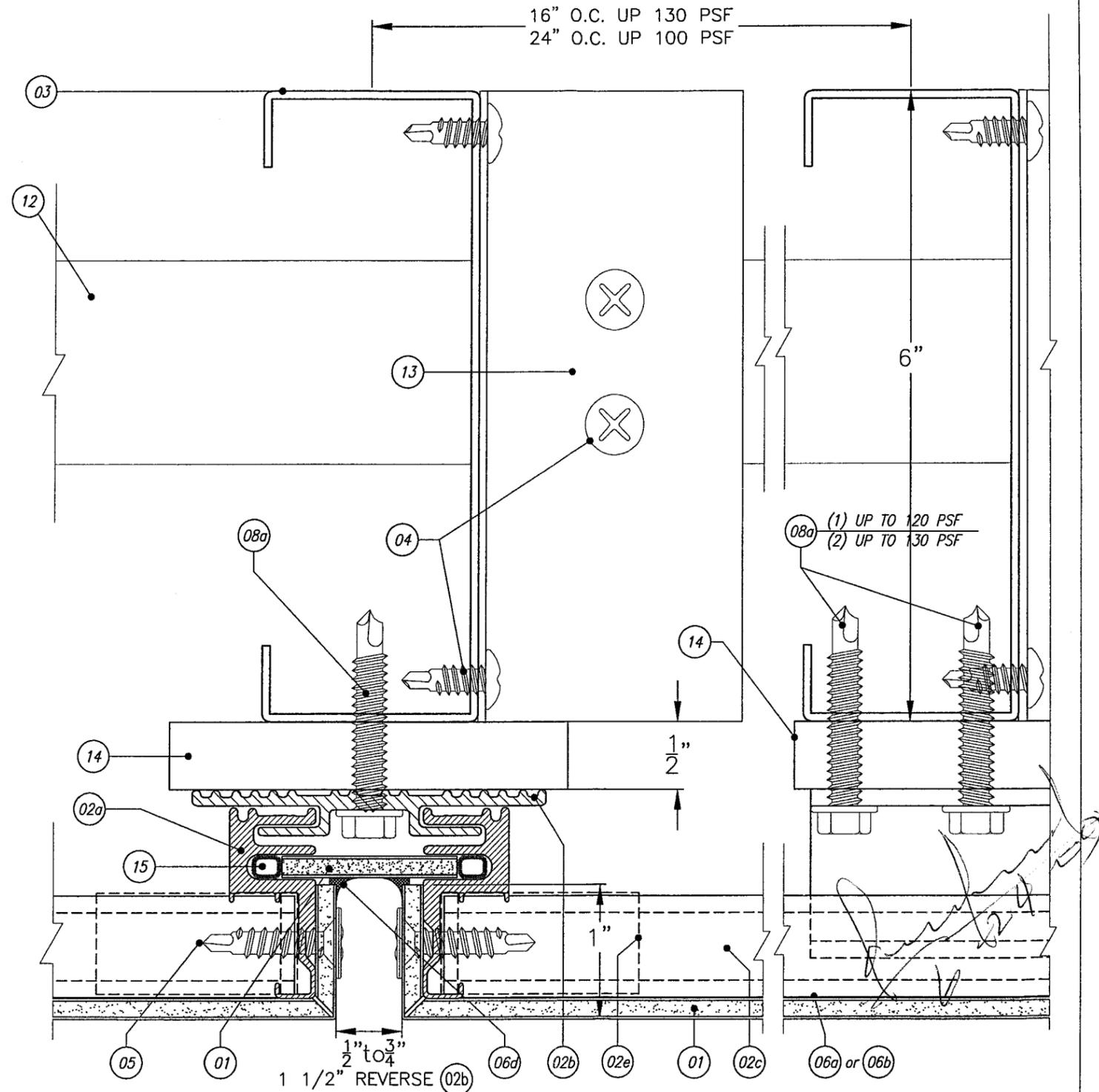
REYNOBOND® ON METAL STUDS
HORIZONTAL WET JOINT (1/2" to 3/4")

A
4 SECTION DETAIL
LEFT / RIGHT



REYNOBOND® ON METAL STUDS
VERTICAL DRY JOINT (1/2")

A
5 SECTION DETAIL
LEFT / RIGHT



NTS

NOTE: All horizontal joints are similar, with differences in joint width, weather sealing and clip orientation reflected on sheet 11

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REYNOBOND® SMALL MISSILE IMPACT
HORIZONTAL JOINT ON METAL STUD
VERTICAL JOINT ON METAL STUD

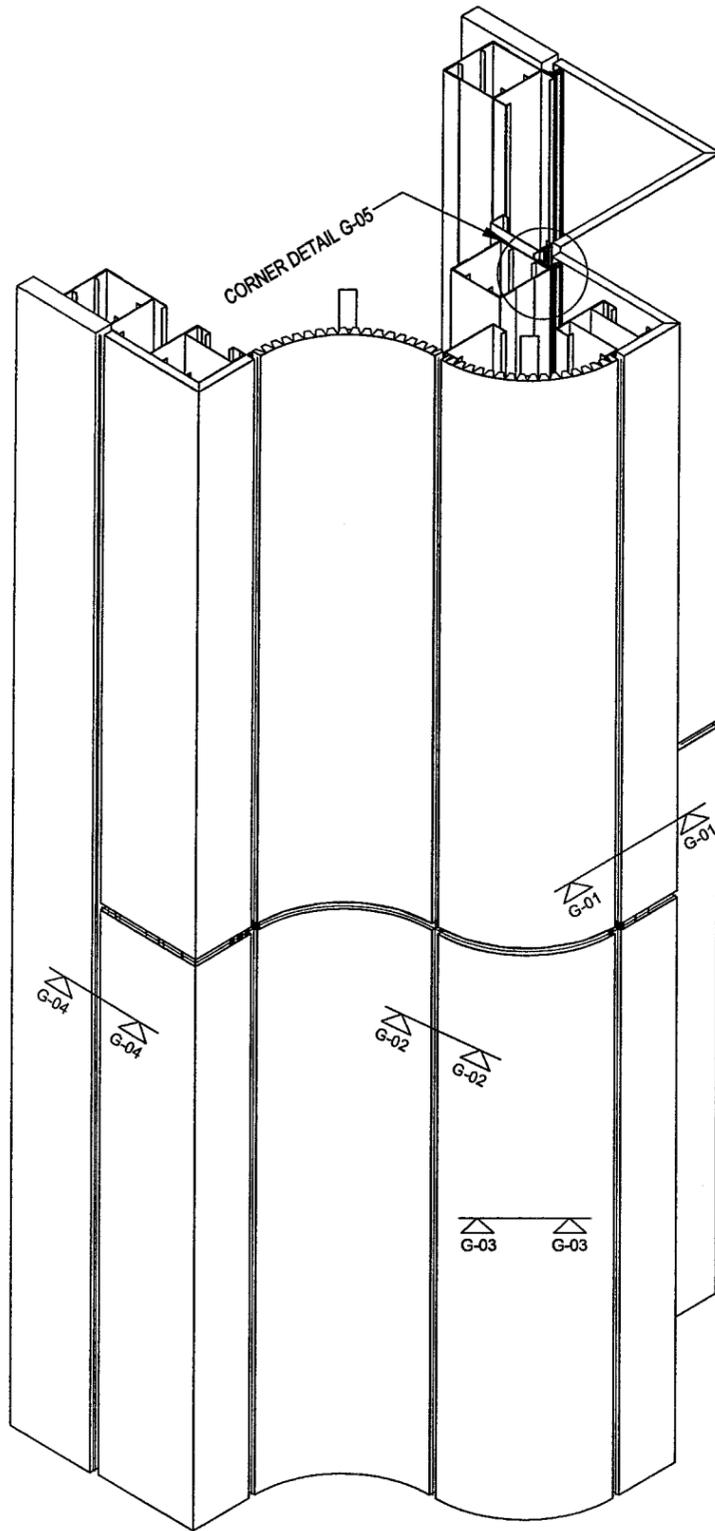
DATE: 06-22-09

REVISION: 06

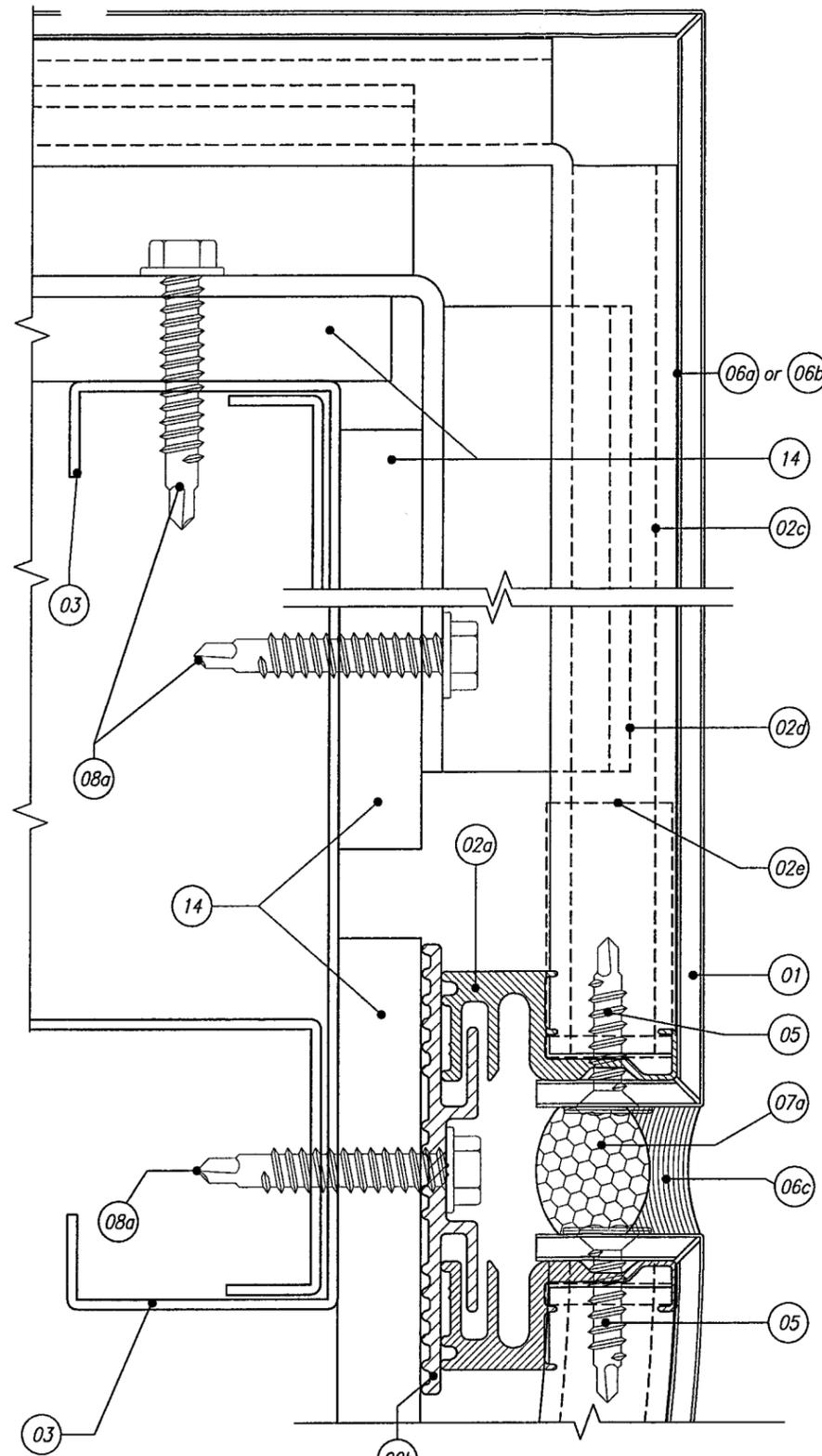
SHEET:

04 OF 07

REYNOBOND®
CURVED PANEL & CORNER
APPLICATION



SCALE: NTS

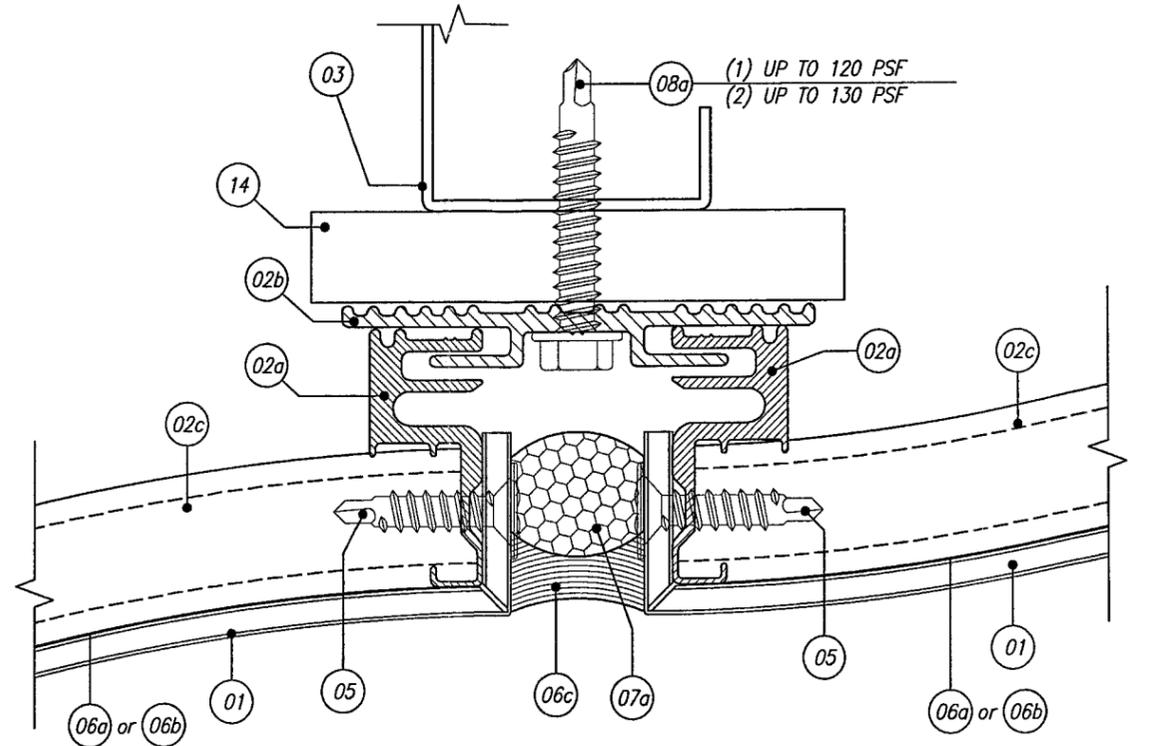


G
1 SECTION DETAIL
LEFT / RIGHT

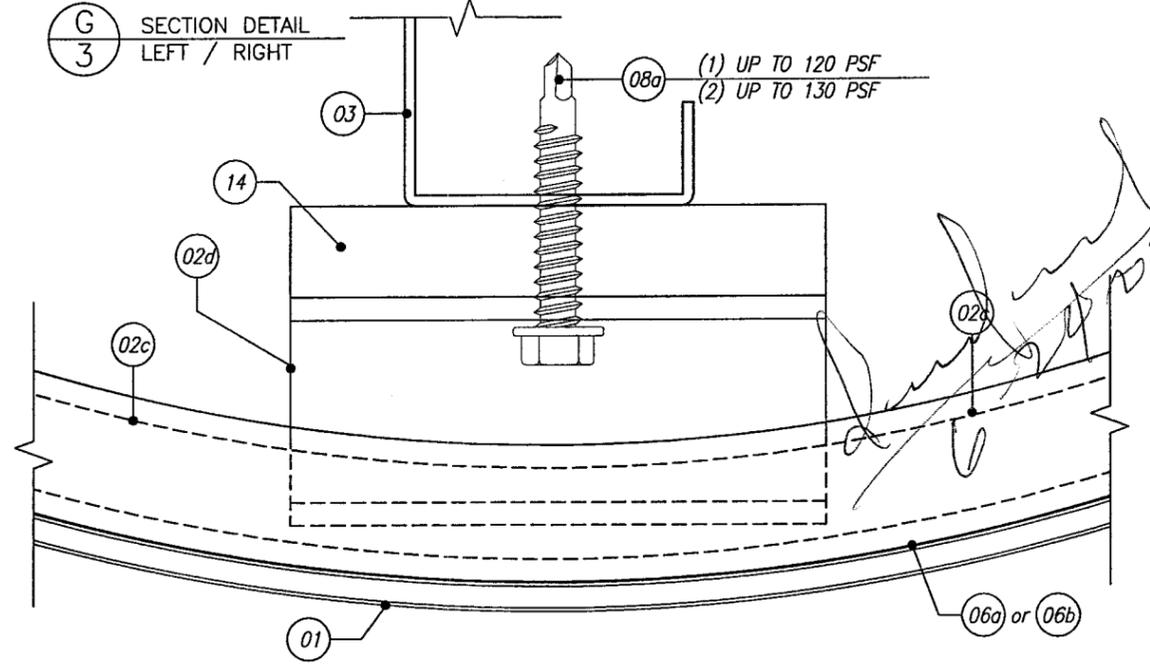
SCALE: NTS

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G
2 SECTION DETAIL
LEFT / RIGHT



G
3 SECTION DETAIL
LEFT / RIGHT



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REYNOBOND® SMALL MISSILE IMPACT
CURVED PANEL JOINT DETAILS

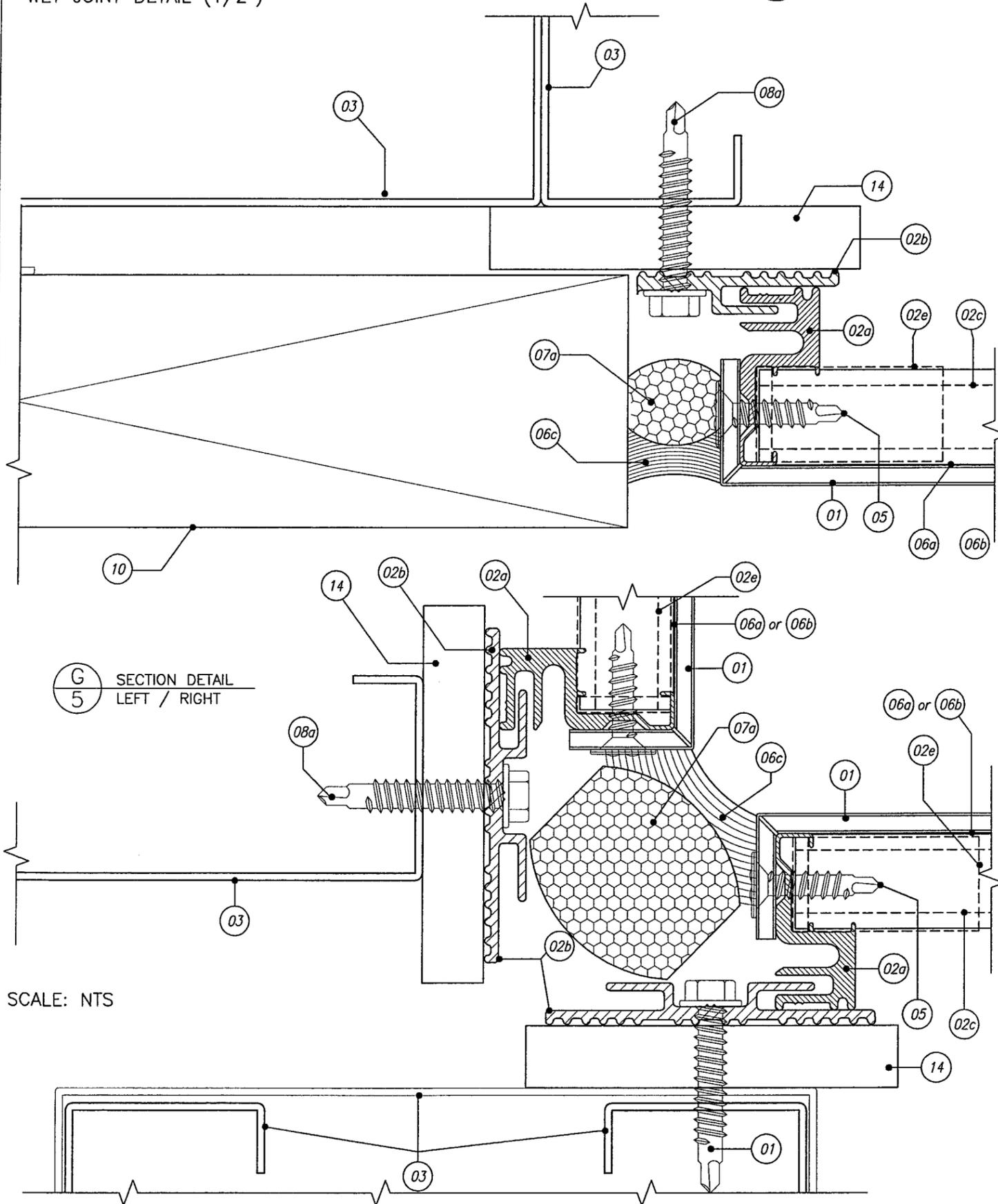
DATE: 06-22-09

REVISION: 06

SHEET:
05 OF 07

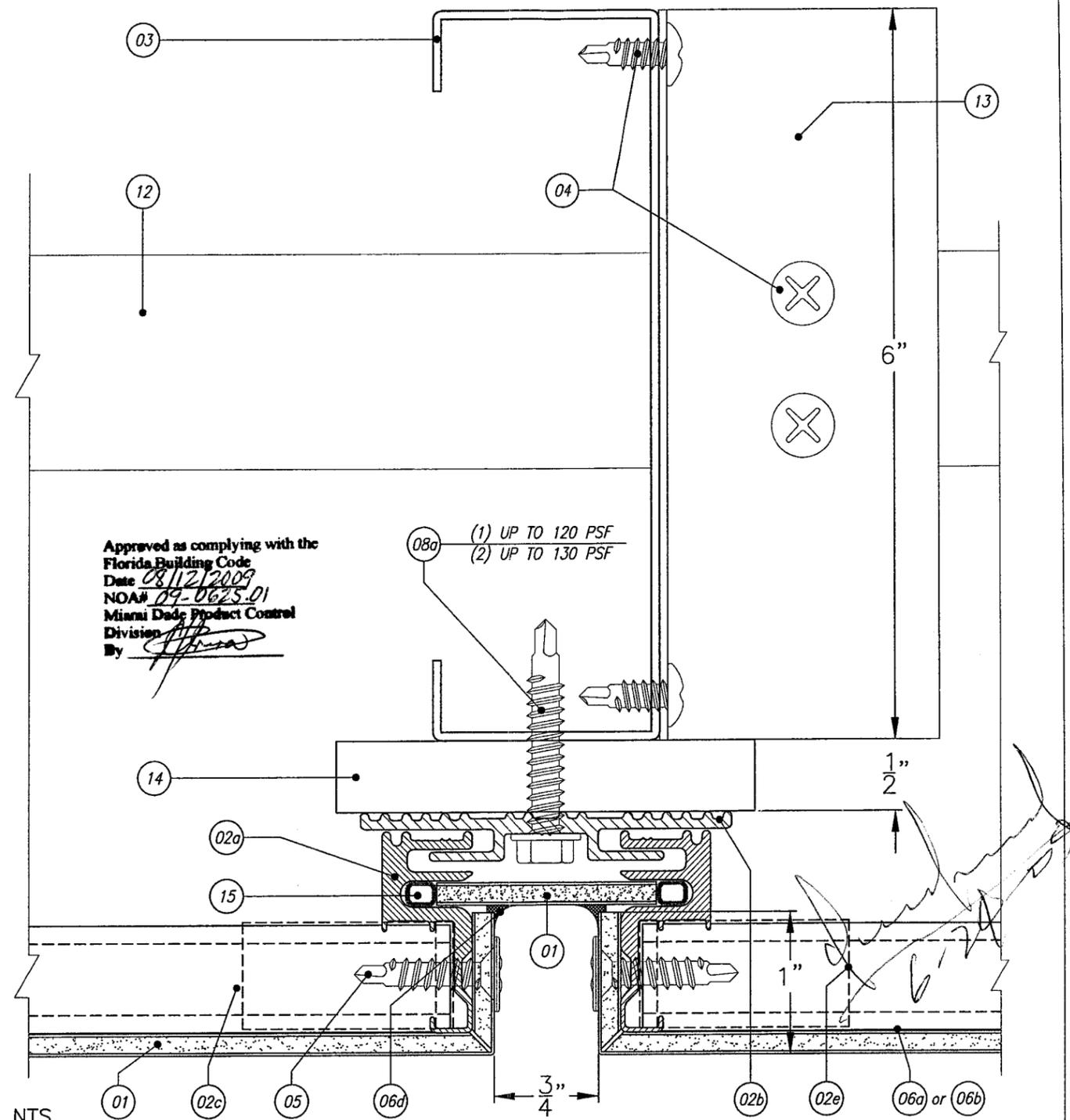
REYNOBOND®
WET JOINT DETAIL (1/2")

G
4 SECTION DETAIL
LEFT / RIGHT



REYNOBOND®
DRY JOINT DETAIL (3/4")

F
2 SECTION DETAIL
LEFT / RIGHT



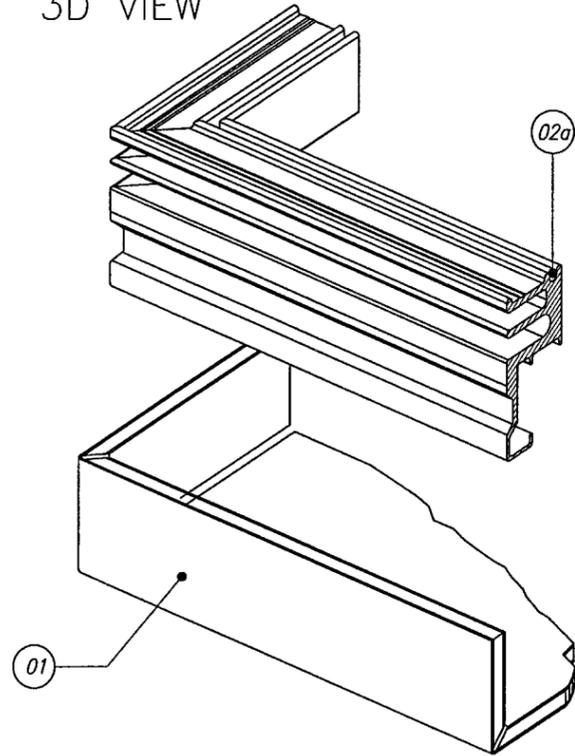
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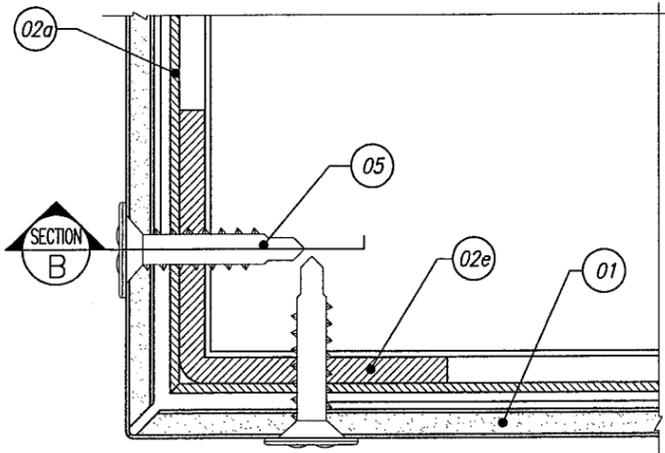
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|---|---|--------------------|
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REYNOBOND®
3D VIEW AND SECTIONS – CORNER (ONLY WET SEAL)

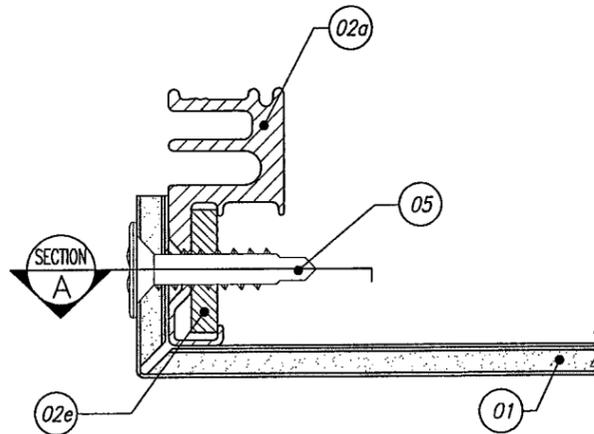
3D VIEW



SECTION A

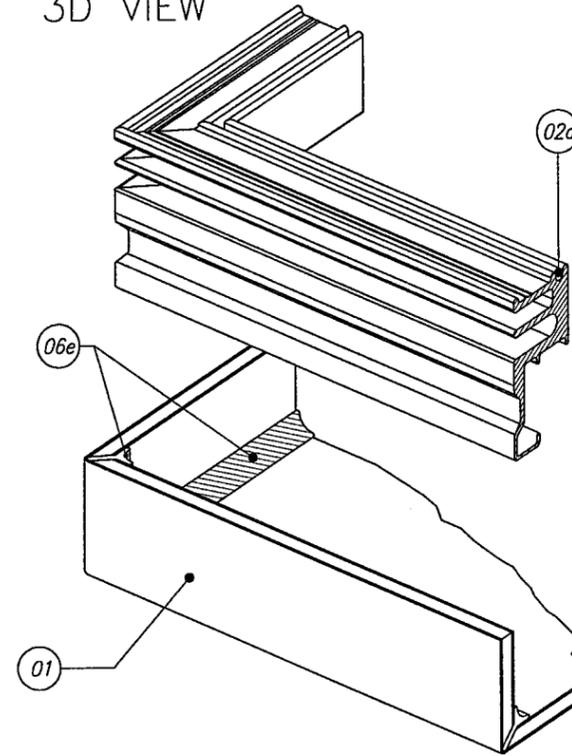


SECTION B

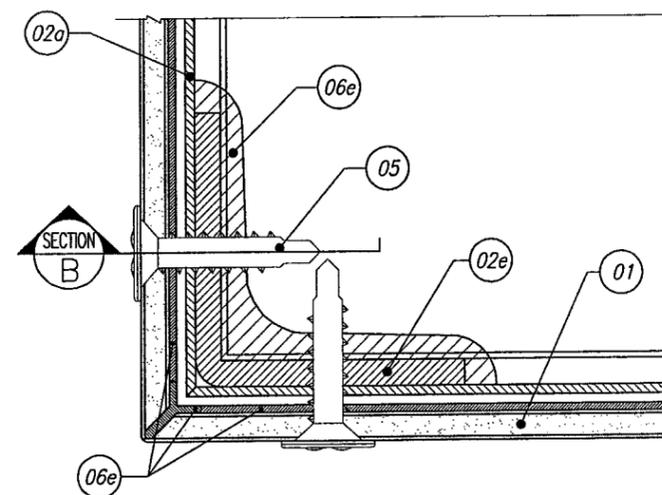


REYNOBOND®
3D VIEW AND SECTIONS – CORNER (ONLY DRY SEAL)

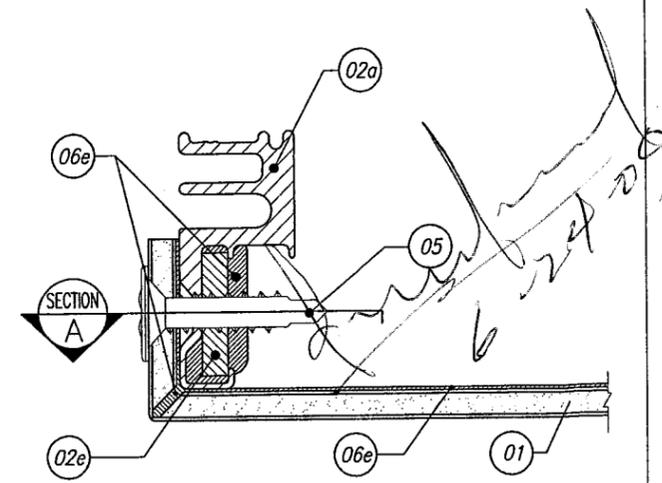
3D VIEW



SECTION A



SECTION B



Approved as complying with the
Florida Building Code
Date 08/12/2009
NOA# 09-0625.01
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DWG. NO. MD-002
MIAMI DADE BUILDING CODE

REYNOBOND®
SMALL MISSILE IMPACT
3D VIEW AND SECTIONS – CORNER FRAME DETAIL
DRY AND WET SEAL

DATE: 06-22-09

REVISION: 06

SHEET:

07 OF 07