



MIAMI-DADE COUNTY
 PRODUCT CONTROL SECTION
 11805 SW 26 Street, Room 208
 Miami, Florida 33175-2474
 T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
 BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

Sto Corporation
3800 Camp Creek Parkway, Bldg. 1400 Ste. 120
Atlanta, GA 30331

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

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

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

DESCRIPTION:

Sto Powerwall HI Wall Panel System with Wire Lath and Stucco over 5/8" eXP. Gypsum Sheathing

APPROVAL DOCUMENT: Drawing No. **PW-HI-0107 Rev #3**, titled "Sto Powerwall HI", sheets 1 through 3 of 3, prepared by the manufacturer, dated 10/21/2014 and last revised on June 22, 2021, signed and sealed by Kurt W. Heinrichs, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant.

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, model (Powerwall HI), city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein. Each container (bucket or drum) needs to be labeled. Unit is further defined as each roll of reinforcing mat or mesh.

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 # 17-0725.02** and 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 **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 21-0798.09
Expiration Date: August 2, 2022
Approval Date: September 30, 2021
 Page 1

Sto Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS “Submitted under NOA # 15-0603.06”

1. Drawing titled “Sto Powerwall HI”, sheets 1 through 3 of 3, prepared by the manufacturer, dated 10/21/2014, signed and sealed by Kurt W. Heinrichs, P.E.

B. TESTS “Submitted under NOA # 07-0625.11”

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) Large 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 Powerwall HI Wall Panels, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G064-0101-07**, dated 01/15/2007, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None

F. STATEMENTS “Submitted under NOA # 15-0603.06”

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by NOVA Engineering and Environmental, LLC, dated 04/09/2015, signed and sealed by Kurt W. Heinrichs, P.E.

“Submitted under NOA # 07-0625.11”

2. Code compliance letter issued by Hurricane Test Laboratory, LLC, dated 01/15/2007, signed and sealed by Vinu J. Abraham, P.E.
3. No financial interest and code compliance letter issued by Cerny & Ivey Engineers, Inc., dated 06/07/2007, signed and sealed by Christopher B. Shiver, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0708.09
Expiration Date: August 2, 2022
Approval Date: September 30, 2021

Sto Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED under previous approval

A. DRAWINGS

1. Drawing No. **PW-HI-0107**, titled “Sto Powerwall HI”, sheets 1 through 3 of 3, prepared by the manufacturer, dated 10/21/2014, with revision **3** dated 05/04/2018, signed and sealed by Kurt W. Heinrichs, 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) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of Powerwall HI Wall Panels, prepared by Intertek/ Architectural Testing, Inc., Test Report No. **G5683.06-550-18**, dated 05/26/2017, revised on 11/29/2017, signed and sealed by Justin P. McDonald, P.E.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of financial interest, issued by NOVA Engineering and Environmental, LLC, dated 02/07/2018, signed and sealed by Kurt W. Heinrichs, P. E.
2. Statement letter of code conformance to the 6th edition (2017) FBC, issued by NOVA Engineering and Environmental, LLC, dated 03/07/2018, signed and sealed by Kurt W. Heinrichs, P. E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0708.09
Expiration Date: August 2, 2022
Approval Date: September 30, 2021

Sto Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **PW-HI-0107 rev #3**, titled "Sto Powerwall HI", sheets 1 through 3 of 3, prepared by the manufacturer, dated 10/21/2014, and last revised on June 22, 2021, signed and sealed by Kurt W. Heinrichs, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Supplement attachment screw verification calculation dated 09/08/21, prepared, signed and sealed by Kurt W. Heinrichs, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

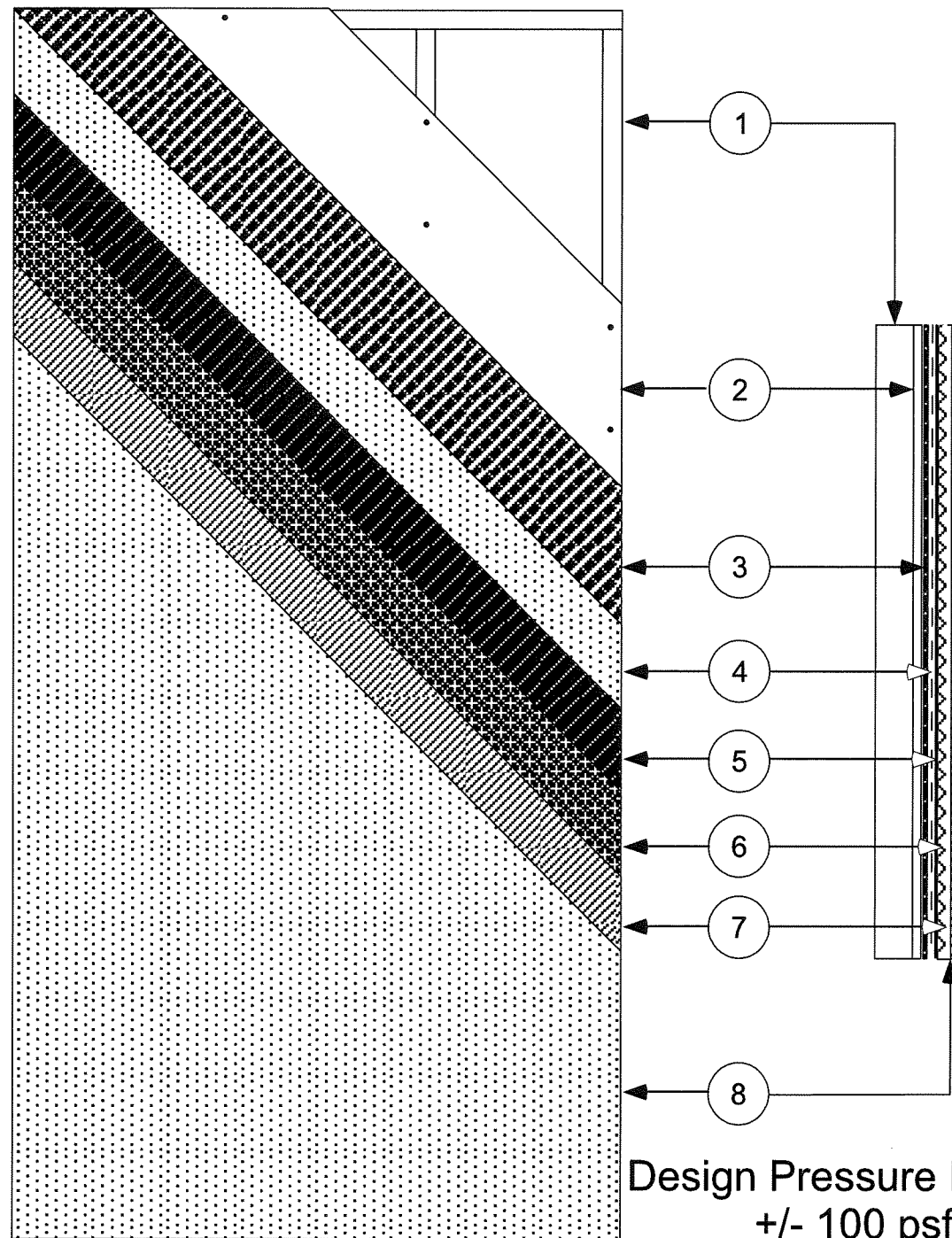
1. Statement letter of code conformance to **FBC 7th Edition (2020)**, issued and prepared by NOVA Engineering and Environmental, dated 06/22/2021, signed and sealed by Kurt W. Heinrichs, P.E.
2. Statement letter dated June 16, 2021, issued by Sto requesting Product FBC 2020 update without change, signed by Kevin Schroeder, Senior Tech Rep.
3. Statement letter dated 09/08/21, justifying change of screws, prepared, signed and sealed by Kurt W. Heinrichs, P.E.

G. OTHER

1. This NOA revises **NOA # 17-0725.02**, expiring 08/02/2022.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 21-0708.09
Expiration Date: August 2, 2022
Approval Date: September 30, 2021



Design Pressure Rating
+/- 100 psf

Description:

1.0 Substrates and Sto products approved with the system

- 1.1 18 ga., 6" x 1 5/8" steel studs at 16" o.c.
- 1.2 5/8" National Gypsum eXP ASTM C 1177 compliant sheathing fastened to framing with No. 8 bugle head screws at 8" o.c. along studs and perimeter
- 1.3 Sto Primer/Adhesive-B polymer modified portland cement base coat used to embed reinforcing mesh on sheathing
- 1.4 Sto Armor Mat XX, 20 oz./yd² glass fiber reinforcing embedded in Sto Primer/Adhesive-B on sheathing
- 1.5 StoGuard with Sto EmeraldCoat air and moisture barrier coating applied to dry Sto Primer/Adhesive-B
- 1.6 Sto Powerwall Stucco: pre-bagged portland cement stucco mixed with sand and water in the field
- 1.7 Sto finish: Ready-to-use polymeric finish

2.0 Application

- 2.1 Sto Primer/Adhesive-B base coat is mixed in accordance with written instructions on the bag and used to fully embed Sto Armor Mat XX reinforcing mesh on the sheathing surface. Base coat is allowed to dry overnight.
- 2.2 Sto Guard with Sto EmeraldCoat is applied to the dry base coat in accordance with Sto written instructions.
- 2.3 One layer of Type D, No. 15 asphalt saturated kraft paper is placed over dry Sto EmeraldCoat as a slip-sheet.
- 2.4 Fasten 2.5 lb/yd² self-furring, galvanized expanded metal lath to the framing at 7" o.c. using No. 8 x 1 1/2" wafer head screws in accordance with ASTM C 1063.
- 2.5 Apply Sto Powerwall stucco as scratch and brown coat. Mix stucco with approximately 200 lbs of clean sand and potable water in accordance with instructions printed on bag. Moist cure brown coat minimum 48 hours, then allow to dry, before applying finish
- 2.6 Mix Sto finish to a uniform consistency and apply with a clean stainless steel trowel.

General Notes:

- 1. This system has been designed in accordance with the Florida Building Code, 2020 Edition.
- 2. This system has been tested in accordance with Florida Building Code TAS 201, TAS 202, and TAS 203.
- 3. This system shall be applied by a licensed plastering contractor.
- 4. The Engineer or Architect of Record for each project using this system shall design the framing and sheathing as required by governing codes and this document.
- 5. All studs used with this system shall be completely sheathed at the interior flange or bridged at a maximum every 5 ft. of stud length or as specified by stud manufacturer.
- 6. All steel studs shall be structural with 1 5/8" minimum flange width and a minimum yield strength of 33000 psi.

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 21-0708.09

Expiration Date 08/02/2022

By Ishag I. Chank
Miami-Dade Product Control

KEY:

- ① 1 5/8" by 6", 18 ga steel studs at 16" o.c.
- ② 5/8" National Gypsum eXP ASTM C1177 compliant sheathing fastened with No. 8 bugle head screws at 8" o.c.
- ③ Sto Armor Mat XX embedded in Sto Primer/Adhesive-B
- ④ StoGuard with Sto EmeraldCoat
- ⑤ One layer Type D No. 15 asphalt saturated kraft paper slip sheet
- ⑥ 2.5 lb/yd² galv. expanded metal lath fastened to studs at 7" o.c.
- ⑦ StoPowerwall Stucco
- ⑧ Sto finish

Review by:

Sto Powerwall HI
Large Missile Impact Stucco System
over frame construction

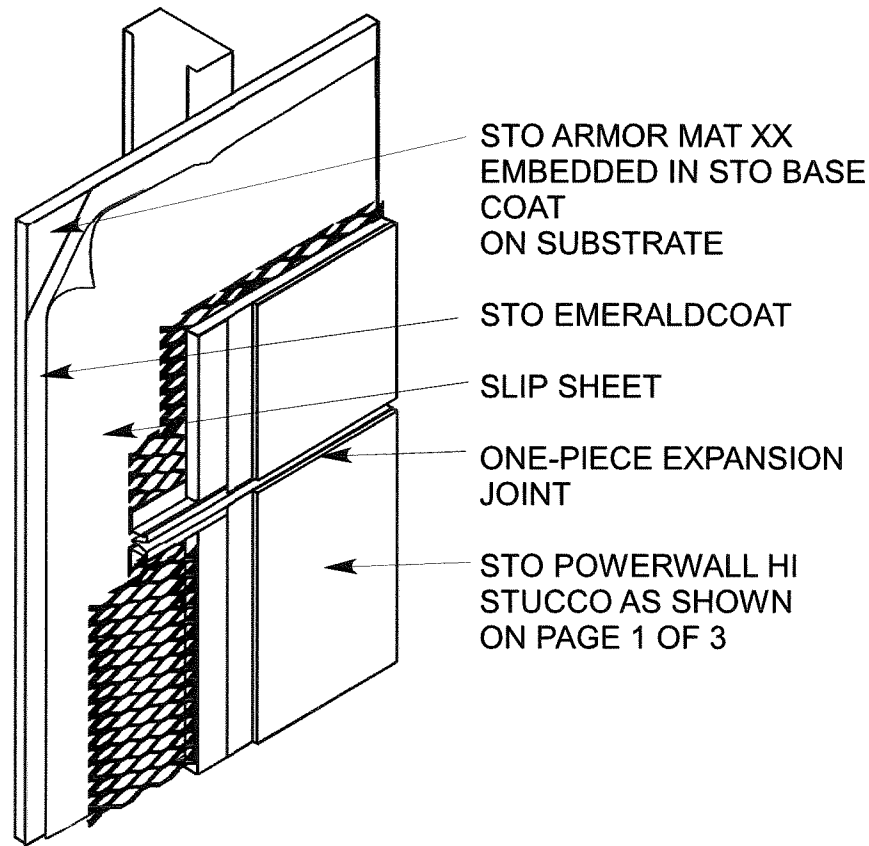
Sto Corp.
3800 Camp Creek Pkwy
Bldg. 1400, Ste 120
Atlanta, GA 30331

Drawing:
PW-HI-0107 R3

March 2021

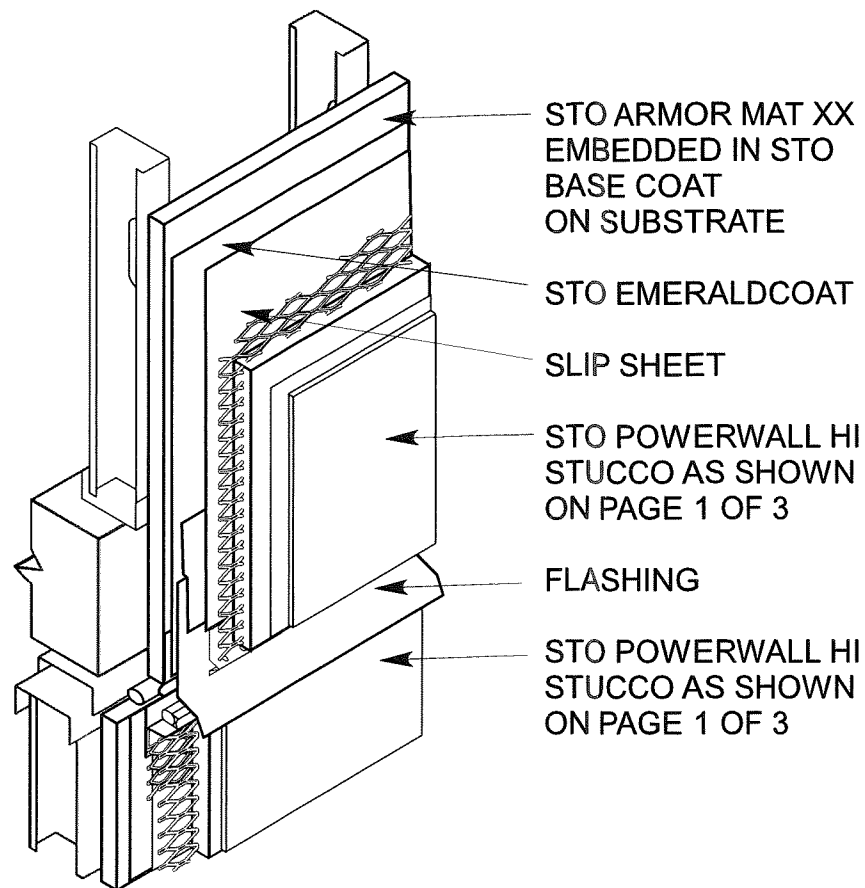
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Drawn by: TLV



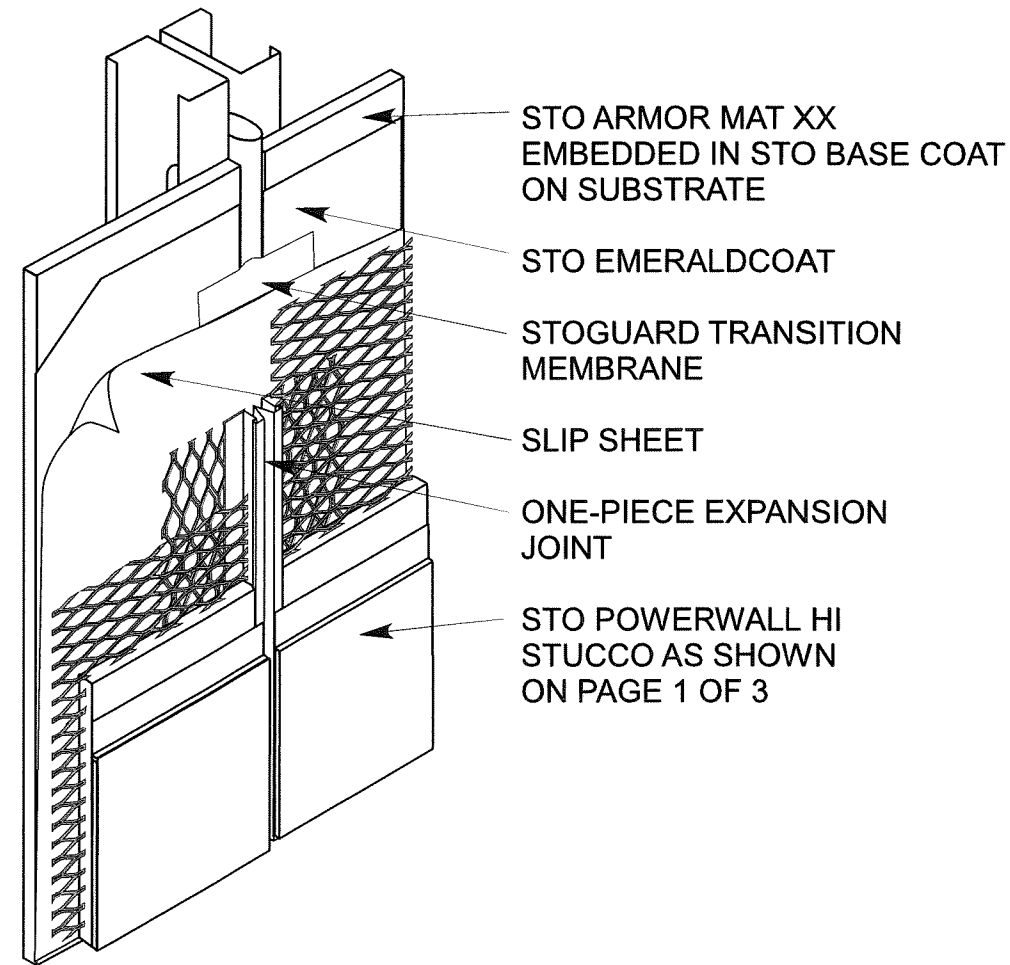
- STO ARMOR MAT XX EMBEDDED IN STO BASE COAT ON SUBSTRATE
- STO EMERALDCOAT
- SLIP SHEET
- ONE-PIECE EXPANSION JOINT
- STO POWERWALL HI STUCCO AS SHOWN ON PAGE 1 OF 3

ONE PIECE CONTROL JOINT



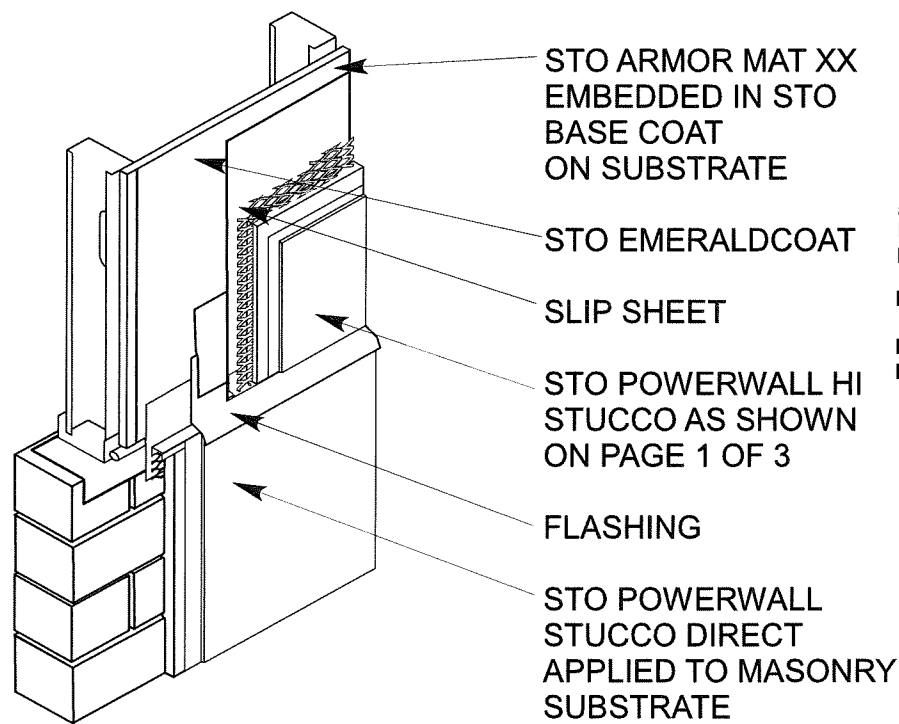
- STO ARMOR MAT XX EMBEDDED IN STO BASE COAT ON SUBSTRATE
- STO EMERALDCOAT
- SLIP SHEET
- STO POWERWALL HI STUCCO AS SHOWN ON PAGE 1 OF 3
- FLASHING
- STO POWERWALL HI STUCCO AS SHOWN ON PAGE 1 OF 3

FLOOR LINE JOINT WITH FLASHING



- STO ARMOR MAT XX EMBEDDED IN STO BASE COAT ON SUBSTRATE
- STO EMERALDCOAT
- STOGUARD TRANSITION MEMBRANE
- SLIP SHEET
- ONE-PIECE EXPANSION JOINT
- STO POWERWALL HI STUCCO AS SHOWN ON PAGE 1 OF 3

ONE PIECE EXPANSION JOINT



- STO ARMOR MAT XX EMBEDDED IN STO BASE COAT ON SUBSTRATE
- STO EMERALDCOAT
- SLIP SHEET
- STO POWERWALL HI STUCCO AS SHOWN ON PAGE 1 OF 3
- FLASHING
- STO POWERWALL STUCCO DIRECT APPLIED TO MASONRY SUBSTRATE

TRANSITION TO MASONRY CONSTRUCTION BELOW

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 21-0708.09
 Expiration Date 08/02/2022
 By *Ishag I. Chank*
 Miami-Dade Product Control

Review by:

Kend Decker

TYPICAL DETAIL SHEET

Sto Powerwall HI
 Large Missile Impact Stucco System
 over frame construction

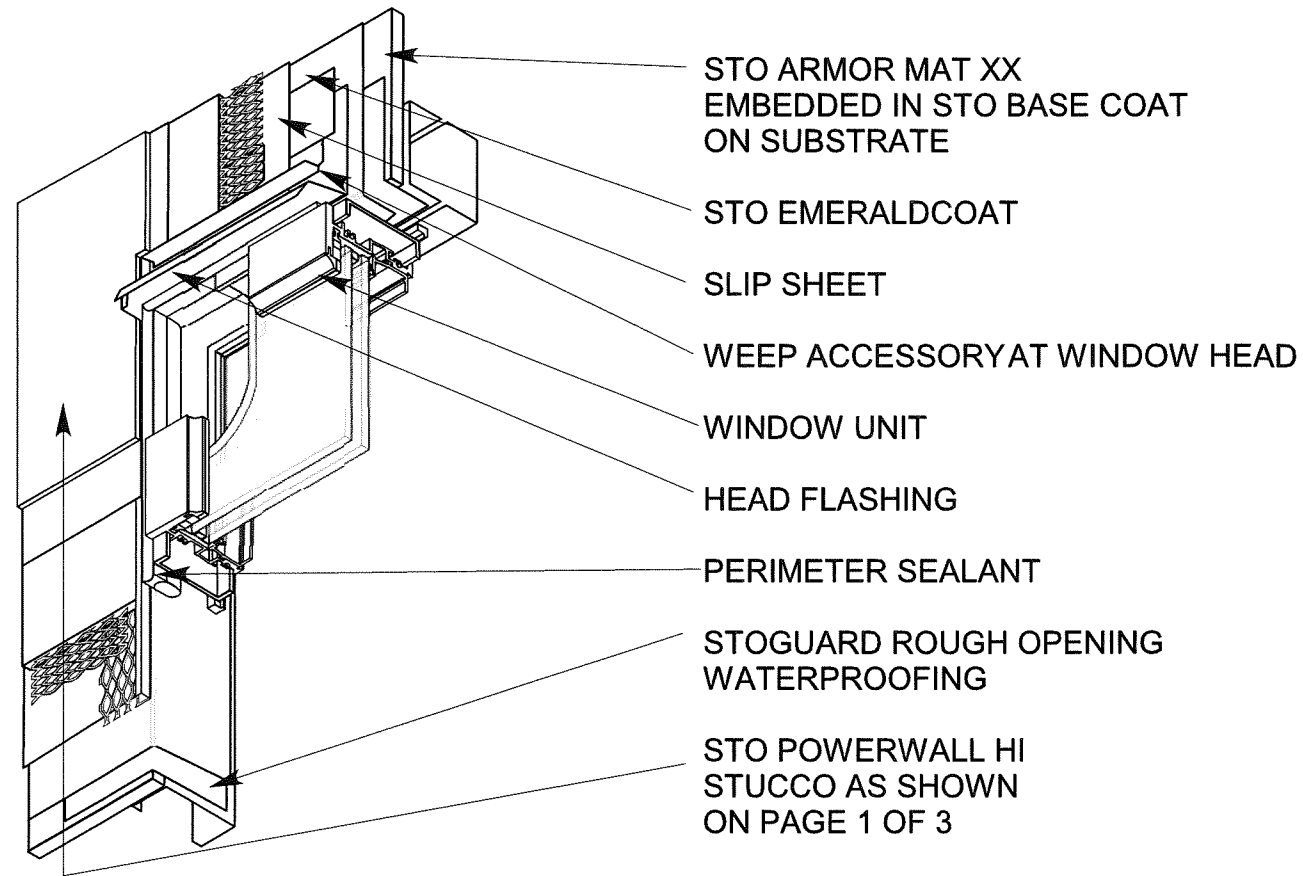
Sto Corp.
 3800 Camp Creek Pkwy
 Bldg. 1400, Ste 120
 Atlanta, GA 30331

Drawing: PAGE 2 of 3
 PW-HI-0107 R3

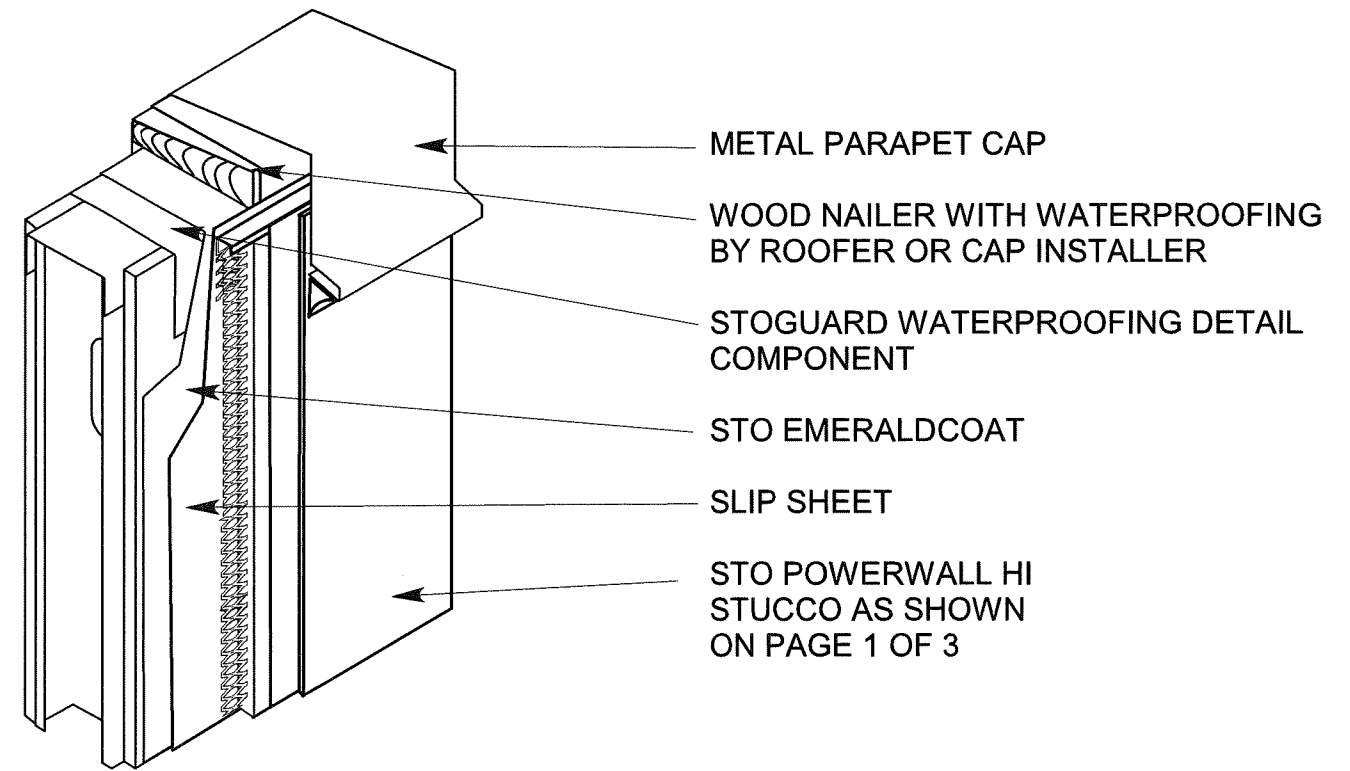
MARCH 2021

Not to Scale

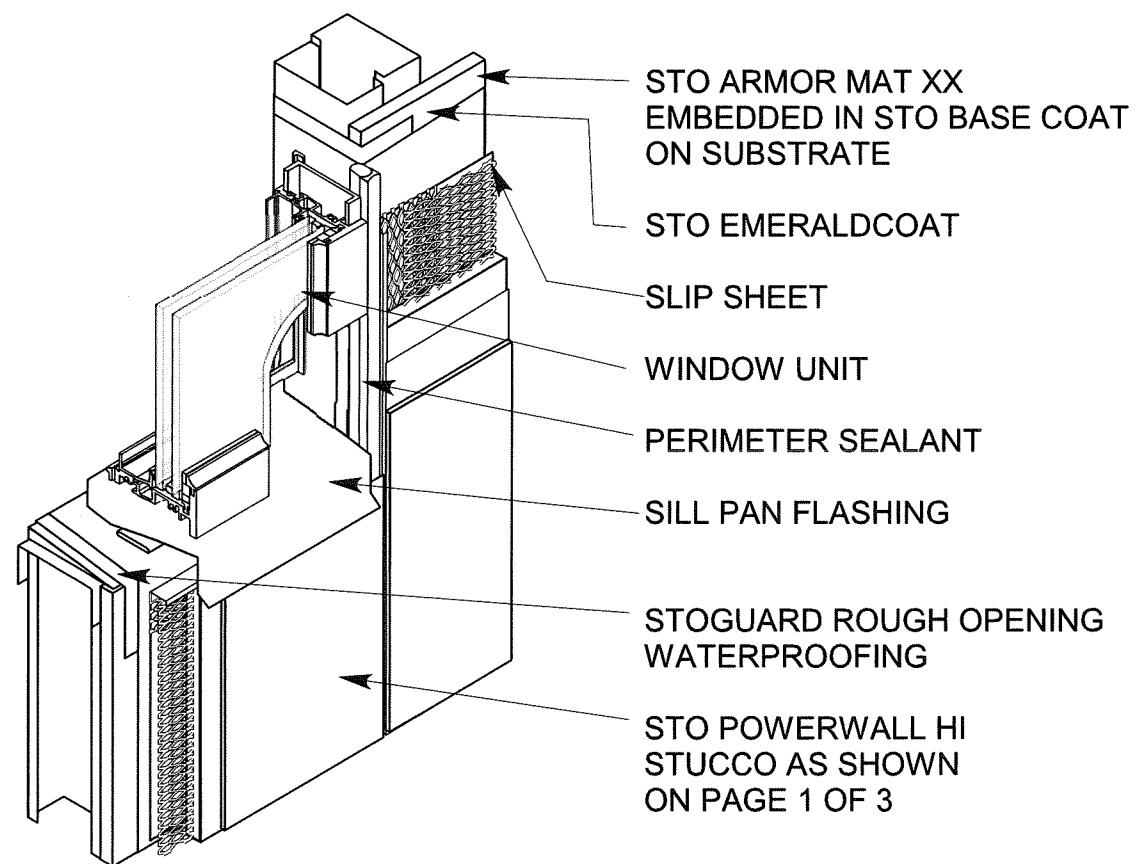
Drawn by: TLV



WINDOW HEAD AND JAMB



PARAPET CAP



WINDOW SILL AND JAMB

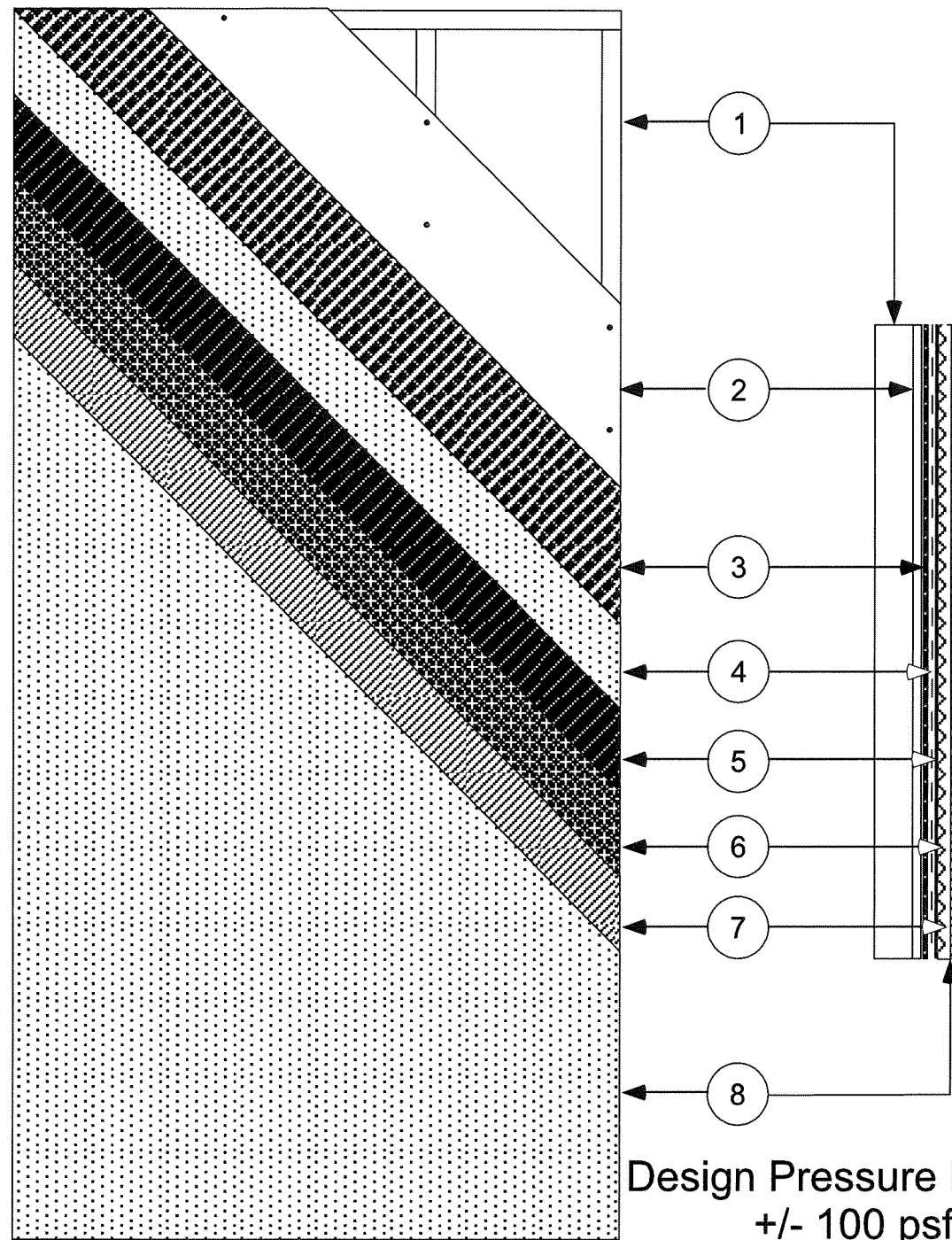
PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 21-0708.09
 Expiration Date 08/02/2022
 By *Ishag I. Chank*
 Miami-Dade Product Control

Review by:

Ishag I. Chank
6/22/21

TYPICAL DETAIL SHEET

Sto Powerwall HI Large Missile Impact Stucco System over frame construction		
Sto Corp. 3800 Camp Creek Pkwy Bldg. 1400, Ste 120 Atlanta, GA 30331		Drawing: PAGE 3 OF 3 PW-HI-0107 R2
MARCH 2021	Not to Scale	Drawn by: TLV



Description:

1.0 Substrates and Sto products approved with the system

- 1.1 18 ga., 6" x 1 5/8" steel studs at 16" o.c.
- 1.2 5/8" National Gypsum eXP ASTM C 1177 compliant sheathing fastened to framing with No. 8 bugle head screws at 8" o.c. along studs and perimeter
- 1.3 Sto Primer/Adhesive-B polymer modified portland cement base coat used to embed reinforcing mesh on sheathing
- 1.4 Sto Armor Mat XX, 20 oz./yd² glass fiber reinforcing embedded in Sto Primer/Adhesive-B on sheathing
- 1.5 StoGuard with Sto EmeraldCoat air and moisture barrier coating applied to dry Sto Primer/Adhesive-B
- 1.6 Sto Powerwall Stucco: pre-bagged portland cement stucco mixed with sand and water in the field
- 1.7 Sto finish: Ready-to-use polymeric finish

2.0 Application

- 2.1 Sto Primer/Adhesive-B base coat is mixed in accordance with written instructions on the bag and used to fully embed Sto Armor Mat XX reinforcing mesh on the sheathing surface. Base coat is allowed to dry overnight.
- 2.2 Sto Guard with Sto EmeraldCoat is applied to the dry base coat in accordance with Sto written instructions.
- 2.3 One layer of Type D, No. 15 asphalt saturated kraft paper is placed over dry Sto EmeraldCoat as a slip-sheet.
- 2.4 Fasten 2.5 lb/yd² self-furring, galvanized expanded metal lath to the framing at 7" o.c. using No. 8 x 1 1/2" wafer head screws in accordance with ASTM C 1063.
- 2.5 Apply Sto Powerwall stucco as scratch and brown coat. Mix stucco with approximately 200 lbs of clean sand and potable water in accordance with instructions printed on bag. Moist cure brown coat minimum 48 hours, then allow to dry, before applying finish
- 2.6 Mix Sto finish to a uniform consistency and apply with a clean stainless steel trowel.

General Notes:

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- 2. This system has been tested in accordance with Florida Building Code TAS 201, TAS 202, and TAS 203.
- 3. This system shall be applied by a licensed plastering contractor.
- 4. The Engineer or Architect of Record for each project using this system shall design the framing and sheathing as required by governing codes and this document.
- 5. All studs used with this system shall be completely sheathed at the interior flange or bridged at a maximum every 5 ft. of stud length or as specified by stud manufacturer.
- 6. All steel studs shall be structural with 1 5/8" minimum flange width and a minimum yield strength of 33000 psi.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 21-0708.09

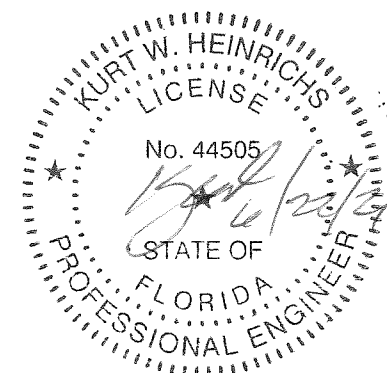
Expiration Date 08/02/2022

By *Ishag I. Chande*
 Miami-Dade Product Control

KEY:

- ① 1 5/8" by 6", 18 ga steel studs at 16" o.c.
- ② 5/8" National Gypsum eXP ASTM C1177 compliant sheathing fastened with No. 8 bugle head screws at 8" o.c.
- ③ Sto Armor Mat XX embedded in Sto Primer/Adhesive-B
- ④ StoGuard with Sto EmeraldCoat
- ⑤ One layer Type D No. 15 asphalt saturated kraft paper slip sheet
- ⑥ 2.5 lb/yd² galv. expanded metal lath fastened to studs at 7" o.c.
- ⑦ StoPowerwall Stucco
- ⑧ Sto finish

Review by:



Sto Powerwall HI
 Large Missile Impact Stucco System
 over frame construction

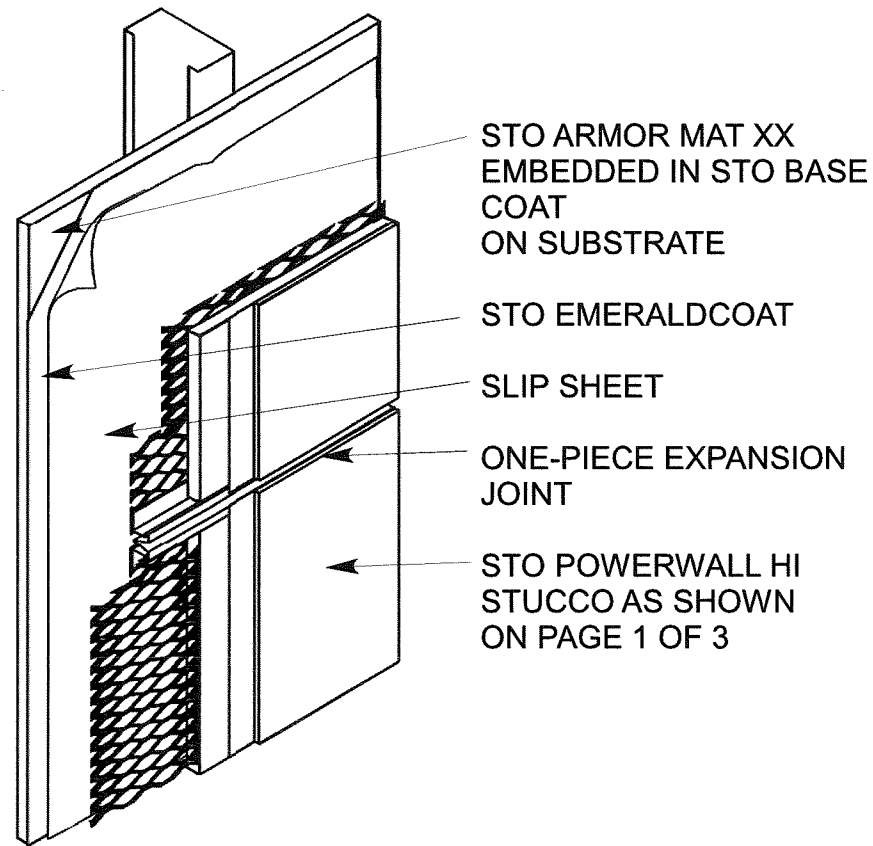
Sto Corp.
 3800 Camp Creek Pkwy
 Bldg. 1400, Ste 120
 Atlanta, GA 30331

Drawing:
 PW-HI-0107 R3

March 2021

Not to Scale

Drawn by: TLV



STO ARMOR MAT XX
EMBEDDED IN STO BASE
COAT
ON SUBSTRATE

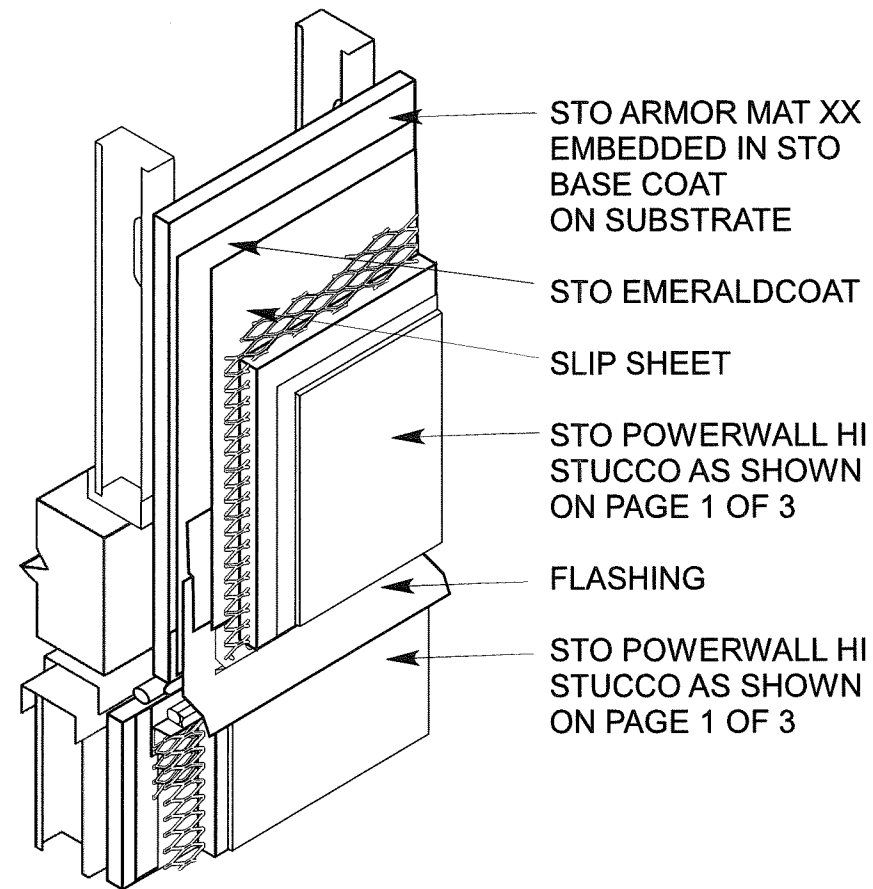
STO EMERALDCOAT

SLIP SHEET

ONE-PIECE EXPANSION
JOINT

STO POWERWALL HI
STUCCO AS SHOWN
ON PAGE 1 OF 3

ONE PIECE CONTROL JOINT



STO ARMOR MAT XX
EMBEDDED IN STO
BASE COAT
ON SUBSTRATE

STO EMERALDCOAT

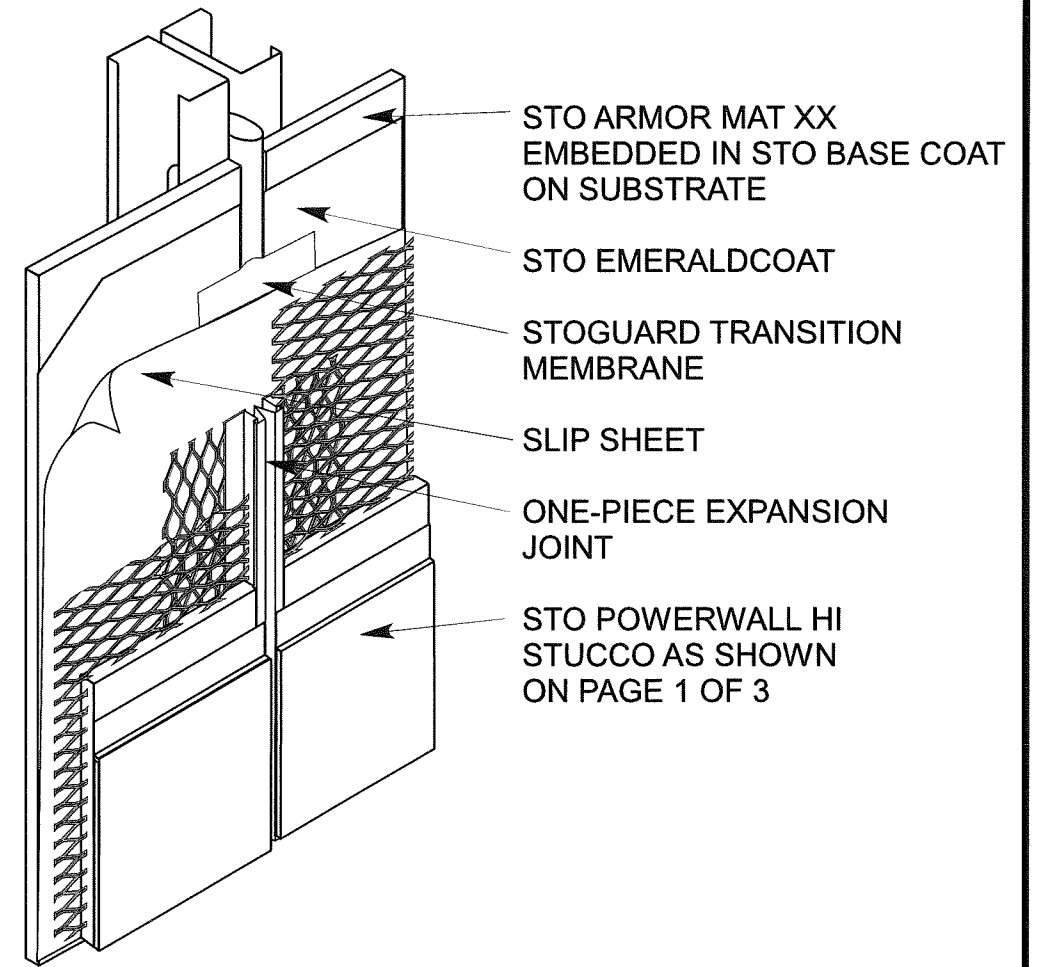
SLIP SHEET

STO POWERWALL HI
STUCCO AS SHOWN
ON PAGE 1 OF 3

FLASHING

STO POWERWALL HI
STUCCO AS SHOWN
ON PAGE 1 OF 3

FLOOR LINE JOINT WITH
FLASHING



STO ARMOR MAT XX
EMBEDDED IN STO BASE COAT
ON SUBSTRATE

STO EMERALDCOAT

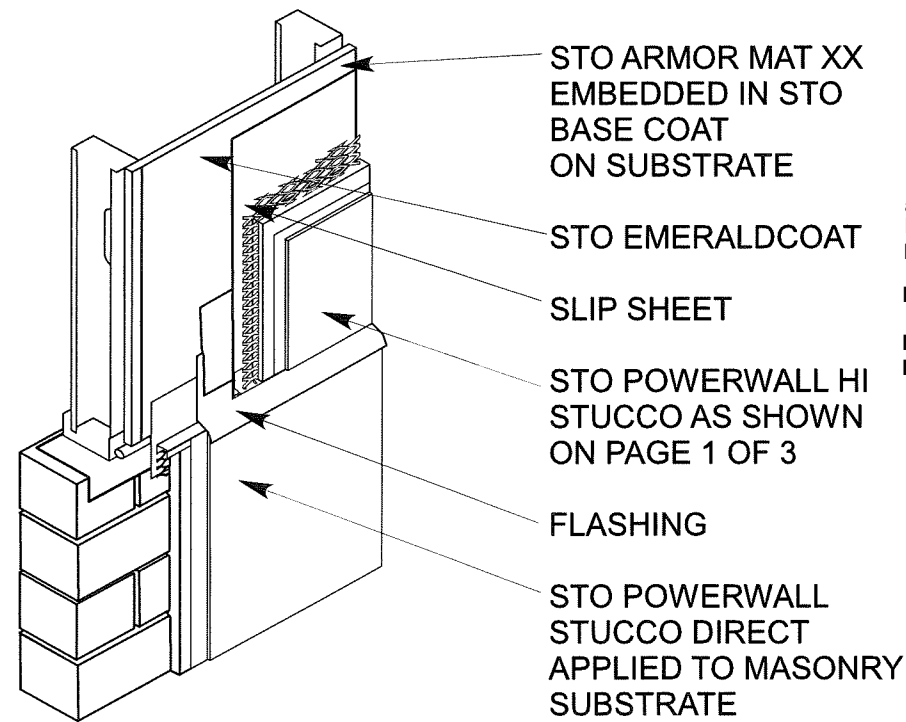
STOGUARD TRANSITION
MEMBRANE

SLIP SHEET

ONE-PIECE EXPANSION
JOINT

STO POWERWALL HI
STUCCO AS SHOWN
ON PAGE 1 OF 3

ONE PIECE EXPANSION
JOINT



STO ARMOR MAT XX
EMBEDDED IN STO
BASE COAT
ON SUBSTRATE

STO EMERALDCOAT

SLIP SHEET

STO POWERWALL HI
STUCCO AS SHOWN
ON PAGE 1 OF 3

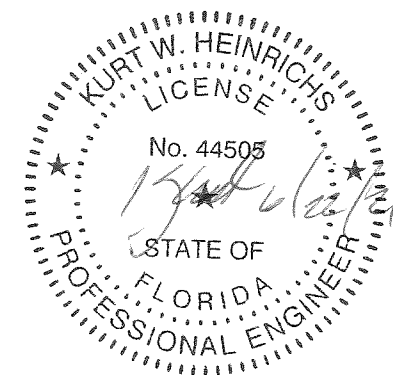
FLASHING

STO POWERWALL
STUCCO DIRECT
APPLIED TO MASONRY
SUBSTRATE

TRANSITION TO MASONRY
CONSTRUCTION BELOW

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0708.09
Expiration Date 08/02/2022
By *Isaac I. Chank*
Miami-Dade Product Control

Review by:



TYPICAL DETAIL SHEET

Sto Powerwall HI
Large Missile Impact Stucco System
over frame construction

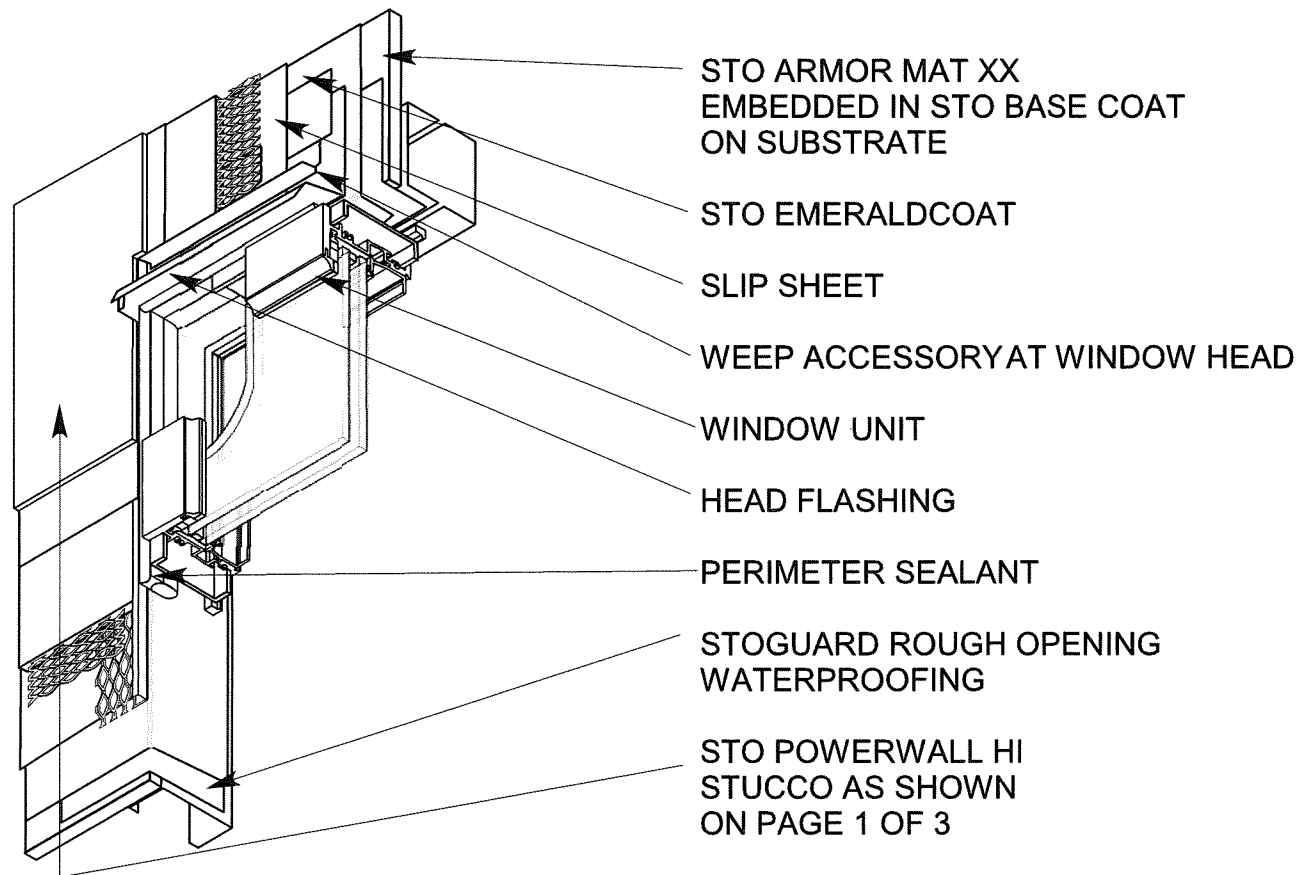
Sto Corp.
3800 Camp Creek Pkwy
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Drawing: PAGE 2 of 3
PW-HI-0107 R3

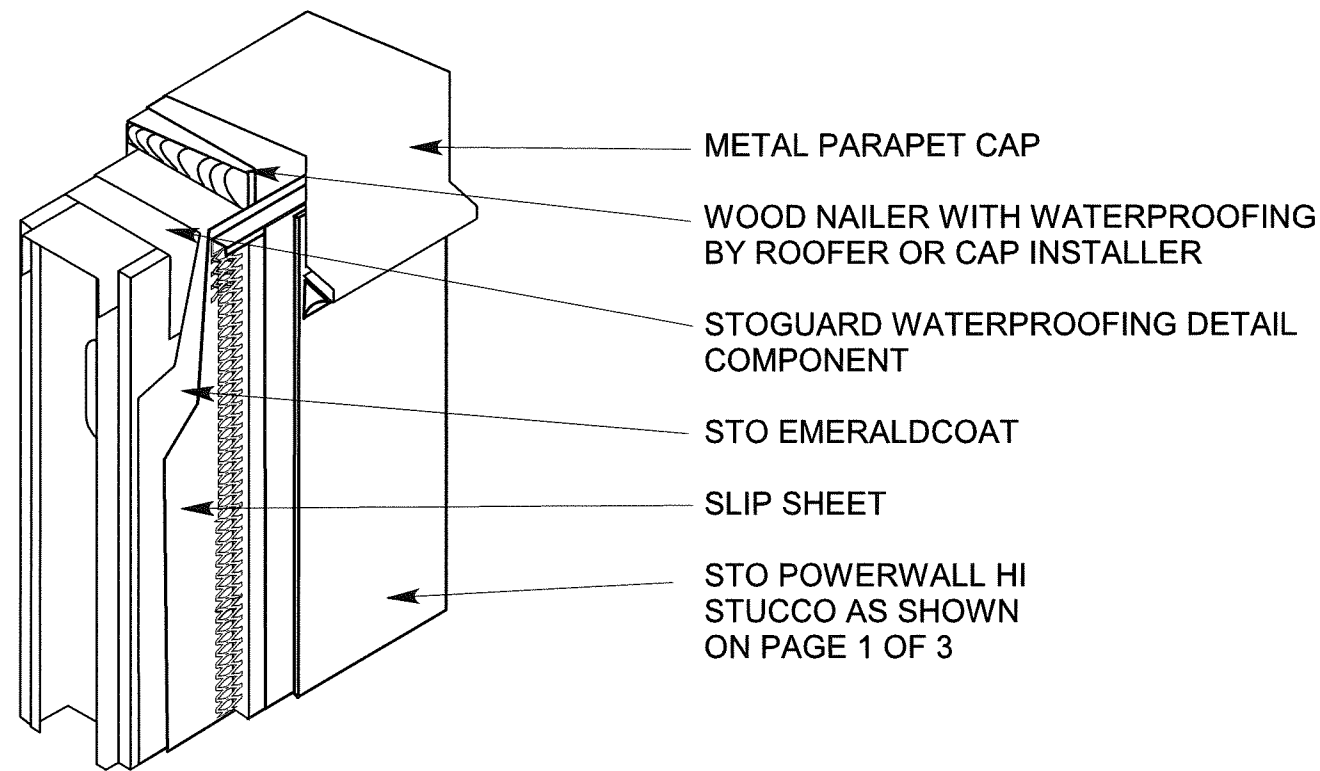
MARCH 2021

Not to Scale

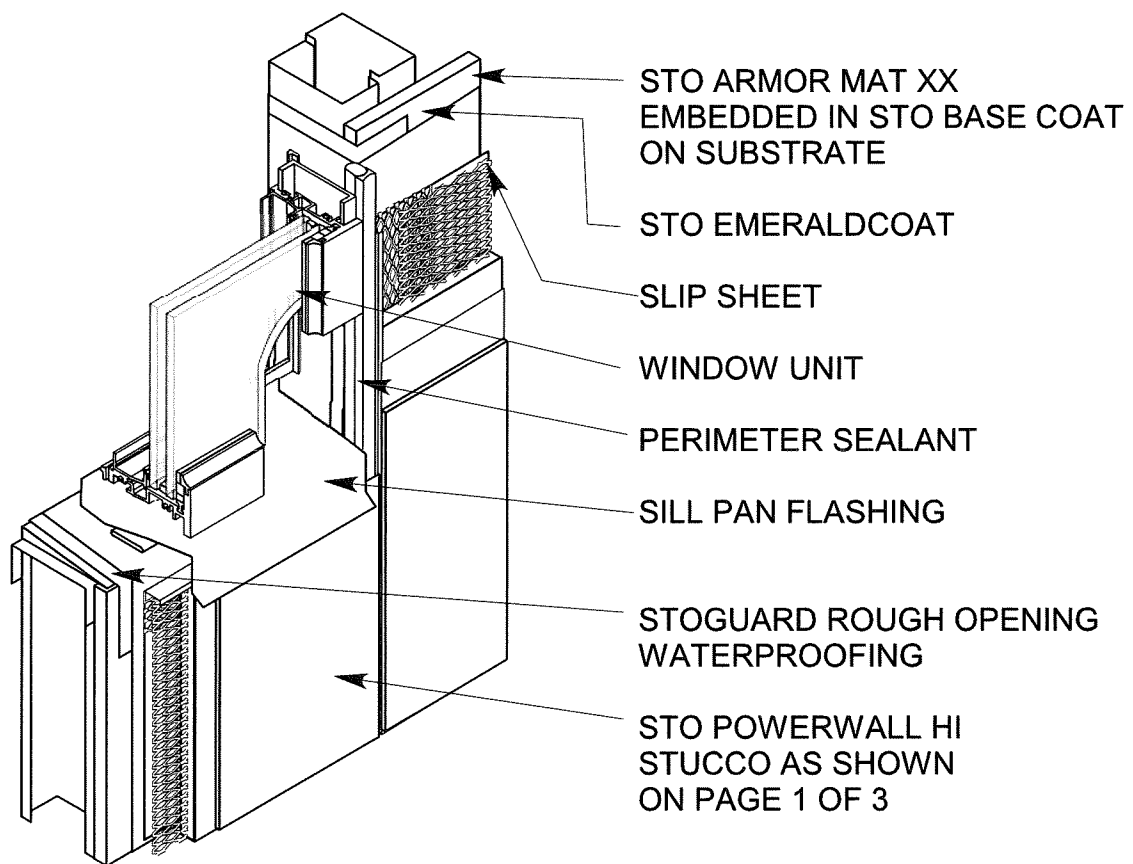
Drawn by: TLV



WINDOW HEAD AND JAMB



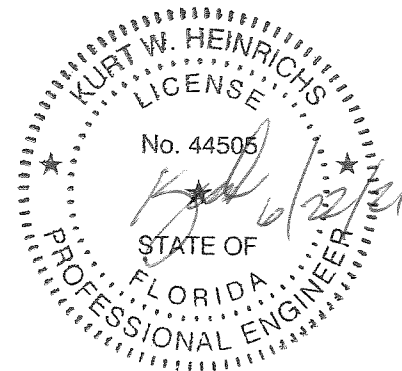
PARAPET CAP



WINDOW SILL AND JAMB

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0708.09
Expiration Date 08/02/2022
By *Ishag I. Chank*
Miami-Dade Product Control

Review by:



TYPICAL DETAIL SHEET

Sto Powerwall HI Large Missile Impact Stucco System over frame construction		
Sto Corp. 3800 Camp Creek Pkwy Bldg. 1400, Ste 120 Atlanta, GA 30331	Drawing: PAGE 3 OF 3 PW-HI-0107 R2	
MARCH 2021	Not to Scale	Drawn by: TLV