



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

## NOTICE OF ACCEPTANCE (NOA)

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](http://www.miamidade.gov/economy)

**CertainTeed Ceilings Corporation**  
**20 Moores Road**  
**Malvern, PA 19355**

**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: Stucco, Dryvit and Sto Exterior Ceiling Suspension Systems - N.I.**

**APPROVAL DOCUMENT:** Drawing No. **CTEED0001**, titled "Exterior Ceiling Suspension System, Non-Impact", sheets 1 through 18 of 18, dated 10/17/2022, with revision A dated 12/28/2023, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoroso, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: None**

**LABELING:** Each unit or component shall bear a permanent label (grid piece at not more than 4' o.c.) with manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved" or on packaging per FBC 1709.10.3. Units or components include containers and boards.

**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 # 22-1108.06** 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 **Carlos M. Utrera, P.E.**



  
03/08/24

**NOA No. 24-0129.04**  
**Expiration Date: January 12, 2028**  
**Approval Date: March 21, 2024**  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under NOA # 22-1108.06**

**A. DRAWINGS**

1. Drawing No. **CTEED0001**, titled “Exterior Ceiling Suspension System, Non-Impact”, sheets 1 through 15 of 15, dated 10/17/2022, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E. on 12/15/2022.

**B. TESTS**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings of Stucco Outdoor Ceiling, prepared by National Certified Testing Laboratories, Test Report No. **NCTL-110-24745-1-R1**, dated 05/12/2022, with revision1 dated 09/02/2022, signed and sealed by Joseph A. Reed, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings of 1-1/2” Drywall Suspension System w/ Dryvit DAP EIFS, prepared by PRI Construction Materials Technologies LLC, Test Report No. **256T0027.01**, dated 05/11/2022, signed and sealed by Zachry Priest, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings of 1-1/2” Drywall Suspension System w/ Sto DAP EIFS, prepared by PRI Construction Materials Technologies LLC, Test Report No. **256T0027.02**, dated 05/11/2022, signed and sealed by Zachry Priest, P.E.

**C. CALCULATIONS**

1. Anchorage engineering calculations, prepared by PTC Product Design Group, LLC, dated 12/03/2022, signed and sealed by Robert J. Amoruso, 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 the 7<sup>th</sup> edition (2020) of the FBC and of no financial interest, issued by PTC Product Design Group, LLC, dated 12/03/2022, signed and sealed by Robert J. Amoruso, P.E.



---

**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 24-0129.04**  
**Expiration Date: January 12, 2028**  
**Approval Date: March 21, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. New evidence submitted**

**A. DRAWINGS**

1. Drawing No. **CTEED0001**, titled “Exterior Ceiling Suspension System, Non-Impact”, sheets 1 through 18 of 18, dated 10/17/2022, with revision A dated 12/28/2023, prepared by PTC Product Design Group, LLC, signed and sealed by Robert J. Amoruso, P.E.

**B. TESTS**

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings of Blue Panzer Mat Bottom Dryvit 24” on Center Ceiling, prepared by Molimo LLC, Test Report No. **27039.01-106-11**, dated 12/21/2023, signed and sealed by Michael D. Stremmel, P.E.
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings of Armor Matt XX Bottom STO BTS Extra Ceiling, prepared by Molimo LLC, Test Report No. **27039.02-106-11**, dated 12/21/2023, signed and sealed by Michael D. Stremmel, 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 code conformance to the 8<sup>th</sup> edition (2023) of the FBC and of no financial interest, issued by PTC Product Design Group, LLC, dated 01/05/2024, signed and sealed by Robert J. Amoruso, P.E.



---

**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 24-0129.04**  
**Expiration Date: January 12, 2028**  
**Approval Date: March 21, 2024**



**GENERAL NOTES:**

1. THIS PRODUCT IS DESIGNED TO COMPLY WITH THE CURRENT EDITION OF THE FLORIDA BUILDING CODE - BUILDING AND RESIDENTIAL REQUIREMENTS INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ) AT THE DESIGN PRESSURE(S) STATED HEREIN. THE PRODUCT DETAILS CONTAINED HEREIN ARE BASED UPON THE FOLLOWING SIGNED AND SEALED TEST REPORTS.
  - 1.1. STUCCO CEILING
    - 1.1.1. TEST REPORT NO. NCTL-110-24745-1-R1 BY NCTL AND ASSOCIATED LABORATORY STAMPED DRAWINGS
  - 1.2. DRYVIT EIFS/DENSGLOSS OR GLASROC CEILING
    - 1.2.1. TEST REPORT NO. 256T0027.01 BY PRI CONSTRUCTION MATERIALS TECHNOLOGIES LLC AND ASSOCIATED LABORATORY STAMPED DRAWINGS
    - 1.2.2. TEST REPORT NO. 27039.01-106-11 BY MOLIMO ARCHITECTURAL PRODUCT TESTING AND ASSOCIATED LABORATORY STAMPED DRAWINGS
  - 1.3. STO EIFS/DENSGLOSS CEILING
    - 1.3.1. TEST REPORT NO. 256T0027.02 BY PRI CONSTRUCTION MATERIALS TECHNOLOGIES LLC AND ASSOCIATED LABORATORY STAMPED DRAWINGS
  - 1.4. STO EIFS/GLASROC CEILING
    - 1.4.1. TEST REPORT NO. 27039.02-106-11 BY MOLIMO ARCHITECTURAL PRODUCT TESTING AND ASSOCIATED LABORATORY STAMPED DRAWINGS
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE / MASONRY, STRUCTURAL STEEL AND/OR 2X FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE STRUCTURE IS THE RESPONSIBILITY OF THE ARCHITECT OR ENGINEER OF RECORD.
3. THIS PRODUCT HAS NOT BEEN TESTED FOR IMPACT RESISTANCE IN ACCORDANCE WITH TAS 201.
4. MATERIALS ARE AS SHOWN IN THE BILL OF MATERIALS.
5. SITE CONDITIONS THAT DEVIATE FROM THE DETAILS OF THIS DRAWING WILL REQUIRE FURTHER ENGINEERING EVALUATION BY A LICENSED ENGINEER OR REGISTERED ARCHITECT.
6. THE PRODUCT DETAILS PRESENTED IN THIS PRODUCT APPROVAL DOCUMENT REPRESENT A SUSPENDED CEILING GRID COMPRISED OF COLD-FORMED STEEL MEMBERS DESIGN AND TESTED TO ALLOW THE APPLICATION OF VARIOUS CEILING SUBSTRATES TO BE EMPLOYED. THOSE SUBSTRATES ARE:
  - 6.1. STUCCO (WITHOUT 5/8" PLYWOOD) COATING USING A SHEET LATH SHEATHING.
  - 6.2. DRYVIT EIFS COATING USING CERTAINTED GLASROC GYPSUM OR GEORGIA PACIFIC DENSGLOSS SHEATHING.
  - 6.3. STO EIFS COATING USING CERTAINTED GLASROC GYPSUM OR GEORGIA PACIFIC DENSGLOSS SHEATHING.
7. THE PRODUCT DETAILS ARE PRESENTED AS FOLLOWS:
  - 7.1. INSTALLATION FOR STUCCO COATED CEILINGS ARE SHOWN ON SHEETS 2, 3 AND 4.
  - 7.2. INSTALLATION FOR DRYVIT EIFS COATED CEILINGS WITH GLASROC OR DENSGLOSS SHEATHING ARE SHOWN ON SHEETS 5, 6 AND 7.
  - 7.3. INSTALLATION FOR STO EIFS COATED CEILINGS WITH DENSGLOSS SHEATHING ARE SHOWN ON SHEETS 8, 9 AND 10.
  - 7.4. INSTALLATION FOR STO EIFS COATED CEILINGS WITH GLASROC SHEATHING ARE SHOWN ON SHEETS 11, 12 AND 13.
  - 7.5. INSTALLATION OF THE SUSPENSION GRID VERTICAL BRACES FOR ALL THREE COATING OPTIONS IS SHOWN ON SHEETS 14 AND 15.
  - 7.6. INSTALLATION OF THE SUSPENSION GRID WIRE HANGERS FOR ALL THREE COATING OPTIONS IS SHOWN ON SHEETS 16 AND 17.
8. THE COATING SYSTEMS (SHEATHING SUBSTRATES) USED IN TESTING ARE DESCRIBED IN NOTE 3 ON SHEETS 3, 6, 9 AND 12 FOR THE STUCCO, DRYVIT AND STO EIFS COATINGS RESPECTIVELY.
9. ALL SHEATHING SUBSTRATES AND EIFS/DIRECT EXTERIOR FINISH SYSTEMS SHOULD BE HANDLED AND INSTALLED AS PRESCRIBED BY APPLICABLE BUILDING CODE REQUIREMENTS AND MANUFACTURER RECOMMENDATIONS.

PERFORMANCE RATING			
MAXIMUM UNIT DIMENSIONS	DESIGN PRESSURE RATING (PSF)	WATER PENETRATION RATING	IMPACT RATING
10' X 10' NOMINAL USED IN TESTING. LARGER SIZES PERMITTED AS LONG AS CEILING GRID MEMBER SPACING AND VERTICAL BRACE / WIRE HANGER SPACING REMAINS WITHIN REQUIREMENTS SHOWN.	±75	NOT APPLICABLE	NONE

### **INSTALLATION NOTES:**

1. VERTICAL BRACE AND WIRE HANGER INSTALLATION ANCHORS SHALL BE AS SHOWN ON SHEETS 14 TO 17.
  - 1.1. ANCHORAGE REQUIREMENTS ARE DETAILED ON THESE SHEETS.
2. VERTICAL BRACE AND WIRE HANGER LOCATIONS ON THE SUSPENSION GRID SHALL BE AS SHOWN ON SHEETS 2, 5, 8 AND 11 FOR EACH OF THE CEILING SHEATHING SUBSTRATES APPROVED.
3. PERIMETER CHANNEL AND ITS ANCHORAGE TO SUPPORTING SUBSTRATE ARE ALLOWED AS FOLLOWS.
  - 3.1. PERIMETER CHANNEL
    - 3.1.1. A 1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL WAS USED IN TESTING STUCCO, STO/DENSGLOSS AND DRYVIT/DENSGLOSS CEILINGS.
    - 3.1.2. A 1-5/8" X 1-1/4" 20 GA. PERIMETER CHANNEL WAS USED IN TESTING STO/GLASROC AND DRYVIT/GLASROC CEILINGS.
    - 3.1.3. SEE NOTES UNDER BILL OF MATERIALS ON SHEETS 4, 7, 10 AND 13 FOR DESCRIPTION OF CHANNEL.
  - 3.2. ANCHORAGE
    - 3.2.1. A #6 X 1-1/4" DRYWALL SCREW WAS USED IN TESTING TO SECURE THE PERIMETER CHANNEL TO THE WOOD TEST FRAME.
    - 3.1.2. SEE NOTES UNDER BILL OF MATERIALS ON SHEETS 4, 7, 10 AND 13 FOR DESCRIPTION OF FASTENER.
4. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
5. SEE SHEET 18 FOR ANCHOR SCHEDULE.
  - 5.1. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES (INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER AND SIDING).

TABLE OF CONTENTS	
SHEET	DESCRIPTION
1	NOTES - GENERAL & INSTALLATION
2	STUCCO CEILING - ELEVATION AND SECTIONS
3	STUCCO CEILING - ISOMETRIC AND NOTES
4	STUCCO CEILING - BOM AND COMPONENTS
5	DRYVIT EIFS CEILING - ELEVATION AND SECTIONS
6	DRYVIT EIFS CEILING - ISOMETRIC AND NOTES
7	DRYVIT EIFS CEILING - BOM AND COMPONENTS
8	STO EIFS/DENSGLOSS CEILING - ELEVATION AND SECTIONS
9	STO EIFS/DENSGLOSS CEILING - ISOMETRIC AND NOTES
10	STO EIFS/DENSGLOSS CEILING - BOM AND COMPONENTS
11	STO EIFS/GLASROC CEILING - ELEVATION AND SECTIONS
12	STO EIFS/GLASROC CEILING - ISOMETRIC AND NOTES
13	STO EIFS/GLASROC CEILING - BOM AND COMPONENTS
14 & 15	VERTICAL BRACE TO SUBSTRATE ANCHORAGE FOR CEILING SUSPENSION SYSTEM
16 & 17	WIRE HANGER TO SUBSTRATE ANCHORAGE FOR CEILING SUSPENSION SYSTEM
18	ANCHOR SCHEDULE

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

**NOA-No.** 24-0129.04

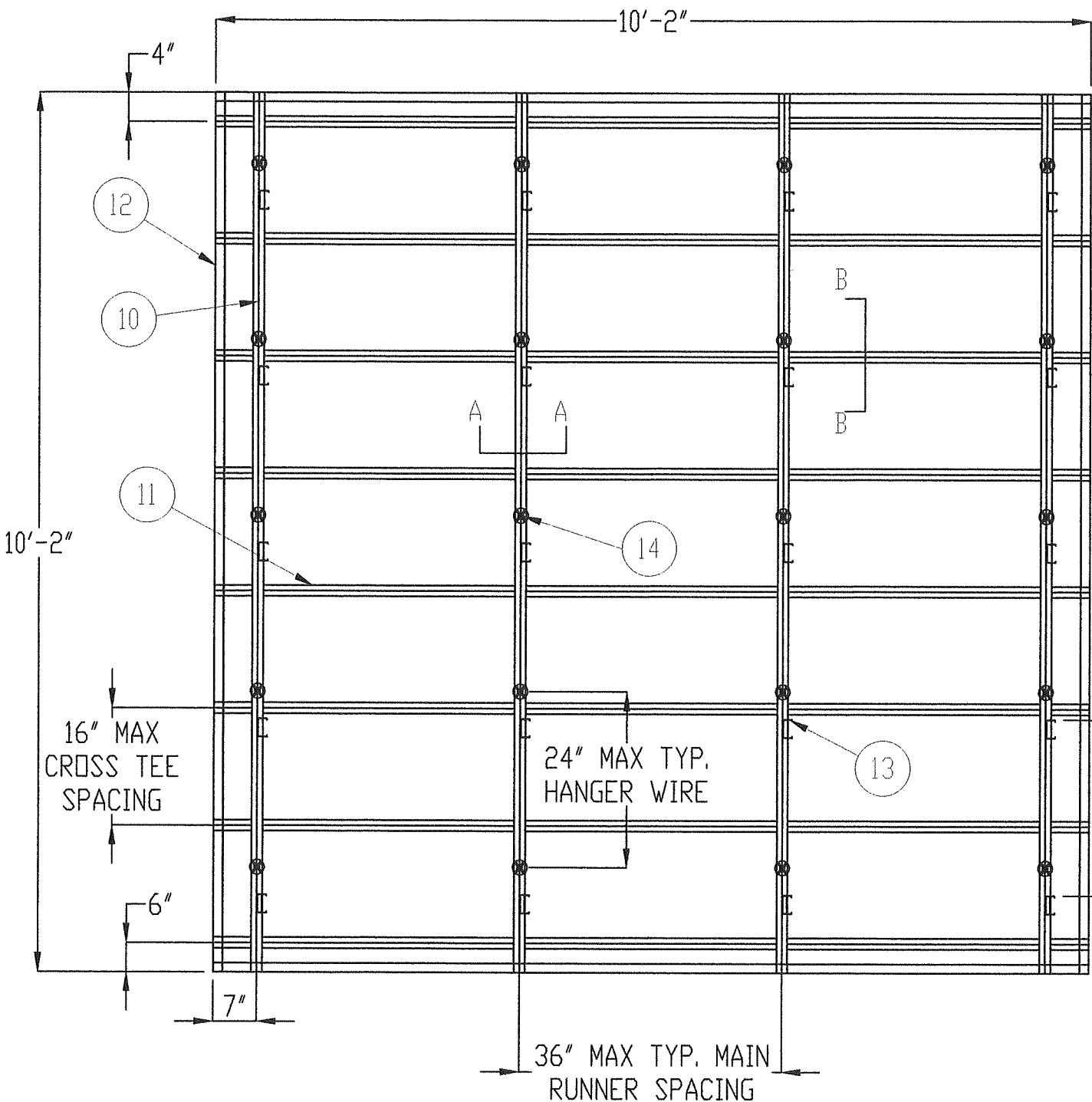
**Expiration Date** 01/12/2028

By   
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

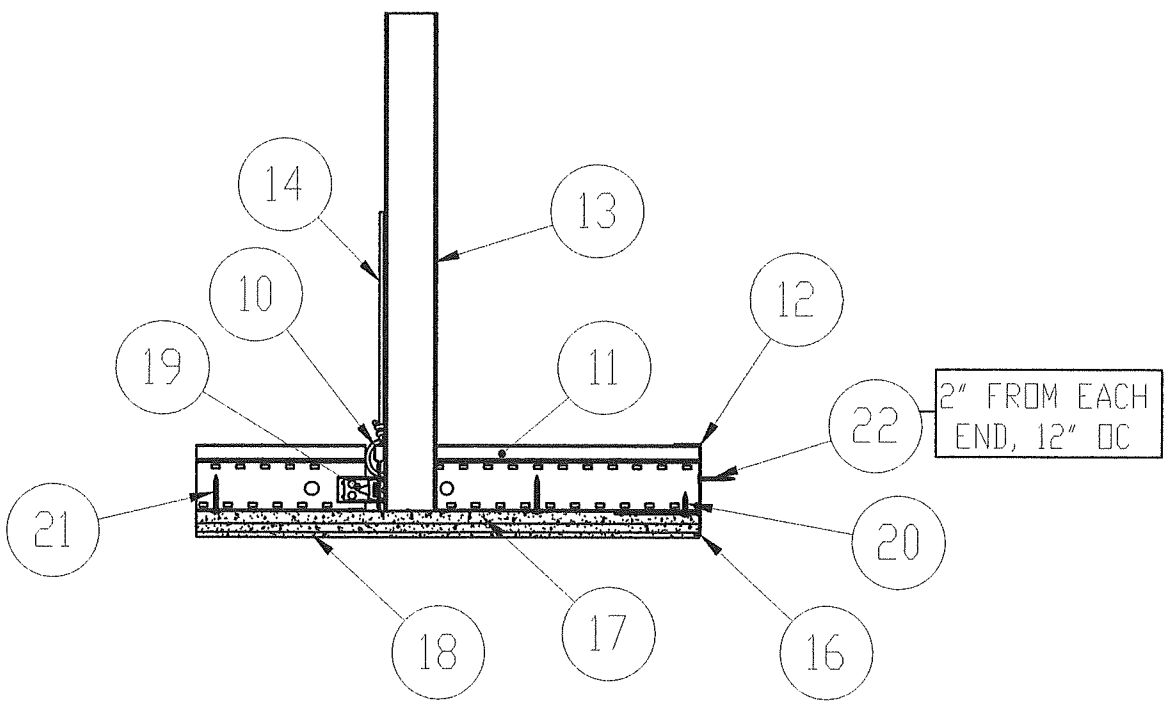


# STUCCO CEILING SUSPENSION SYSTEM

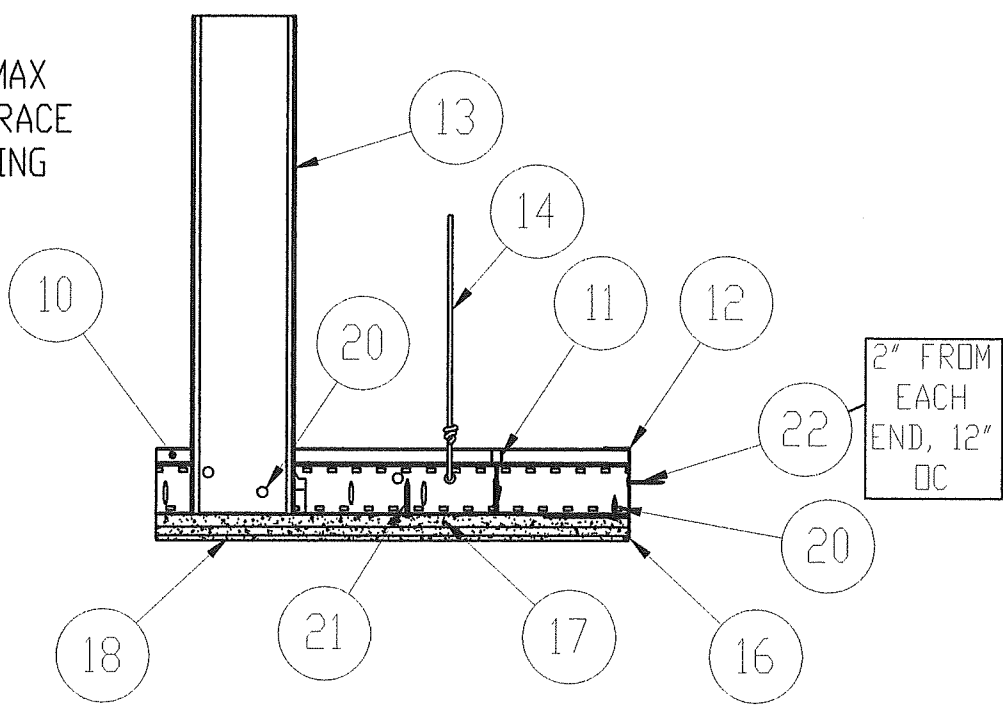


DESIGN PRESSURE RATING: +/- 75.0 PSF

SECTION A-A



SECTION B-B



PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT STUCCO CEILING - ELEVATION AND SECTIONS

DATE: 10/17/2022

DRAWING NO: CTEED0001

SHEET: 2 OF 18

REV: A

DESCRIPTION

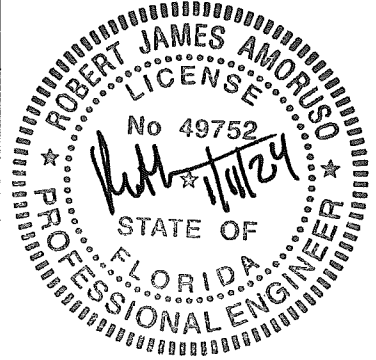
REVISOR

DATE

BY

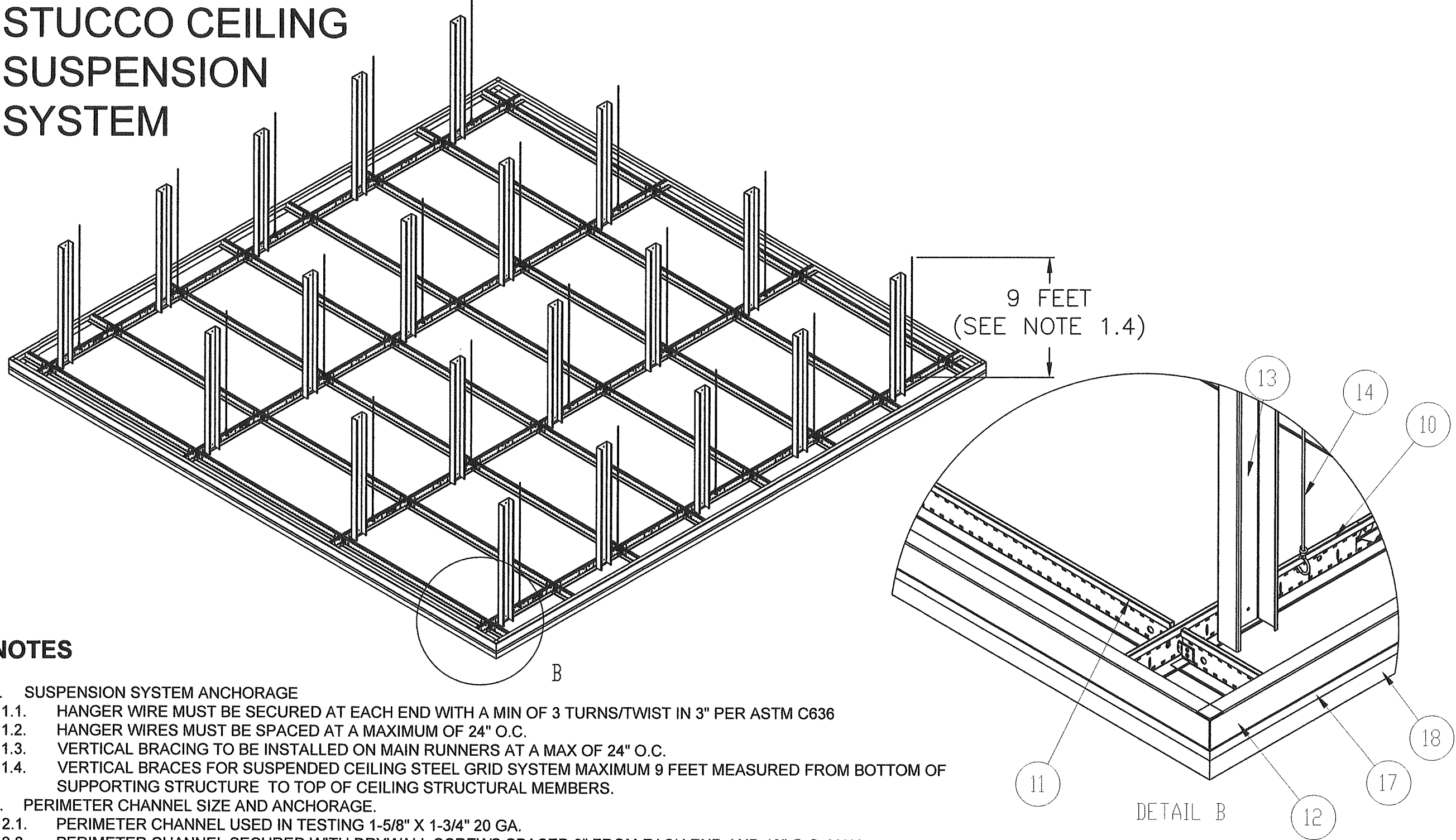
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# STUCCO CEILING SUSPENSION SYSTEM



## NOTES

1. SUSPENSION SYSTEM ANCHORAGE
  - 1.1. HANGER WIRE MUST BE SECURED AT EACH END WITH A MIN OF 3 TURNS/TWIST IN 3" PER ASTM C636
  - 1.2. HANGER WIRES MUST BE SPACED AT A MAXIMUM OF 24" O.C.
  - 1.3. VERTICAL BRACING TO BE INSTALLED ON MAIN RUNNERS AT A MAX OF 24" O.C.
  - 1.4. VERTICAL BRACES FOR SUSPENDED CEILING STEEL GRID SYSTEM MAXIMUM 9 FEET MEASURED FROM BOTTOM OF SUPPORTING STRUCTURE TO TOP OF CEILING STRUCTURAL MEMBERS.
2. PERIMETER CHANNEL SIZE AND ANCHORAGE.
  - 2.1. PERIMETER CHANNEL USED IN TESTING 1-5/8" X 1-3/4" 20 GA.
  - 2.2. PERIMETER CHANNEL SECURED WITH DRYWALL SCREWS SPACED 2" FROM EACH END AND 12" O.C. MAX.
3. STUCCO CEILING (ITEM NO. 17 & 18).
  - 3.1. 3/8" RIBBED SHEET LATH WAS SECURED TO MAIN RUNNERS AND CROSS TEES WITH #8 TRUSS-HEAD SHARP POINT SCREWS 8" ON CENTER.
  - 3.2. A STUCCO MIX WITH A FINISH THICKNESS OF 3/4" IS TOWELED INTO THE RIBBED LATH IN 3 COATS
  - 3.3. STUCCO MIX CONSIST OF: 22 SHOVELS OF C-144 SAND, 2 1/2 GALLONS "THORO" BRAND ACRYL 60 ACRYLIC ADDITIVE, 1 PACK CONTROL "X" CHOPPED FIBERS, 1 BAG (50 LBS.) TYPE "S" LIME, 1 BAG (94 LBS) TYPE 1 PORTLAND CEMENT.

PROJECT #423-0201

CERTAINTED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
STUCCO CEILING - ISOMETRIC AND NOTES

PREPARED BY: RJA

DATE: 10/17/2022

DRAWING NO: CTEED0001

SHEET: 3 OF 18

REV: A

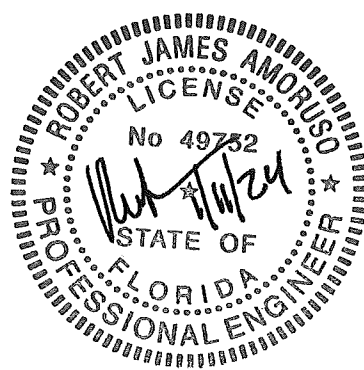
DESCRIPTION: REVISED TO ADD NEW TESTING

DATE: 12/28/23

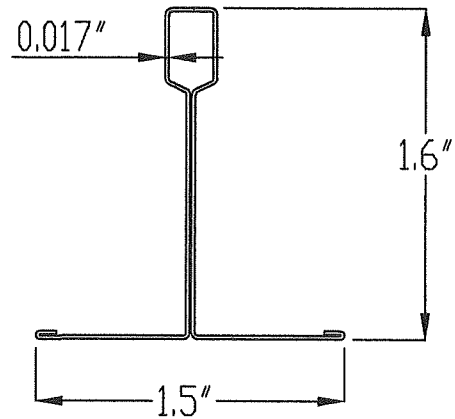
BY: RJA

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

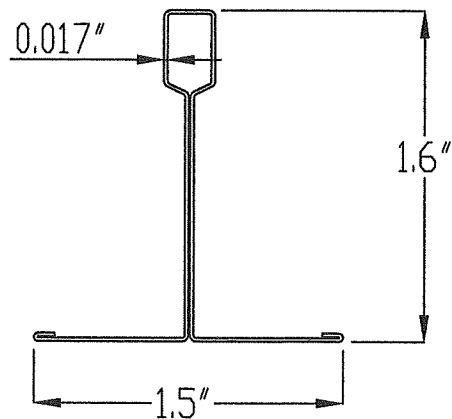
Robert J. Amoruso, P.E.  
Florida P.E. No. 49752



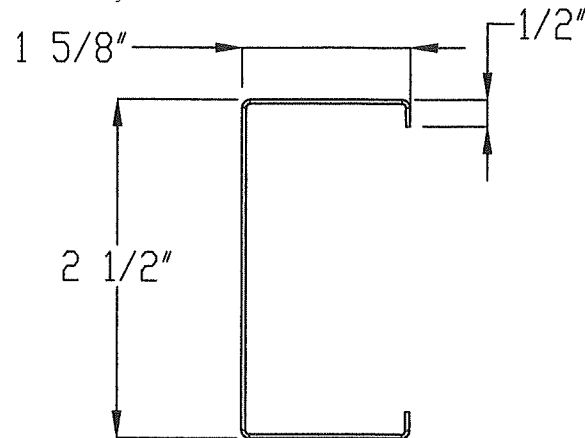
10 MAIN RUNNER  
TYP. WALL THK 0.017"



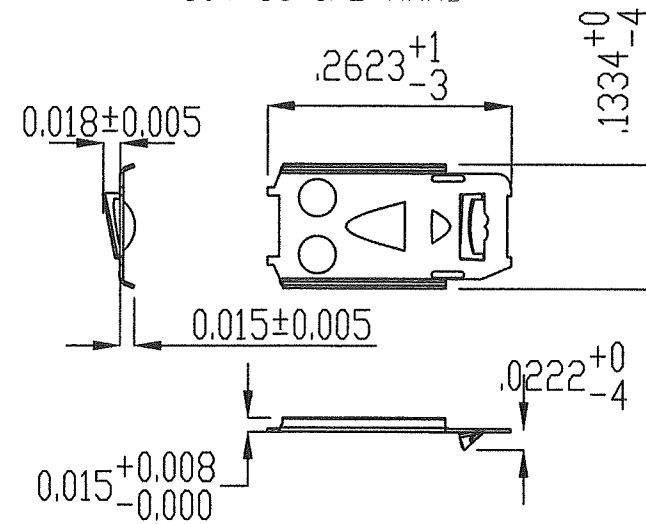
11 CROSS TEE  
TYP. WALL THK 0.017"



13 VERTICAL BRACE  
TYP. WALL THK (20 GA) 0.0346"  
C-STUD 250S162-33  
Fy = 33 KSI



19 CROSS TEE CLIP  
0.01575" THICKNESS  
304 SS 1/2 HARD



ITEM	DESCRIPTION
10	DWS12-13-20 G90 MAIN RUNNER BY CTC
11	DWS3-13-20 G90 CROSS TEE BY CTC
12	1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL BY OTHER (*)
13	2-1/2" X 1-5/8" 20 GA. STEEL STUD VERTICAL BRACE BY OTHER
14	#9 GA. HANGER WIRE
-	
16	#66 3/4" CASE BEAD OR #701 BEAD L TRIM 21 GA.
17	3/8" RIBBED SHEET LATH; 3.4 LBS/ SQ.YD.; AS PER ASTM C-847
18	3-COAT STUCCO
19	CROSS TEE CLIP BY CTC
20	#6 X 9/16" SHARP POINT SCREW BY OTHER
21	#8 X 1-1/4" TRUSS-HEAD SHARP POINT SCREW BY OTHER
22	#6 X 1-1/4" DRYWALL SCREW BY OTHER (*)

\* 1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL (ITEM NO. 12) AND #6 X 1-1/4" DRYWALL SCREW (ITEM NO. 22) USED IN TESTING FOR SECURING TO TEST BUCK.

STEEL COMPONENTS ARE ASTM A653 CS TYPE B

## STUCCO CEILING SUSPENSION SYSTEM

PROJECT #423-0201

CERTAINTED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355


TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
STUCCO CEILING - BOM AND COMPONENTS

DATE: 10/17/2022  
DRAWING NO: CTEED0001  
SHEET: 4 OF 18

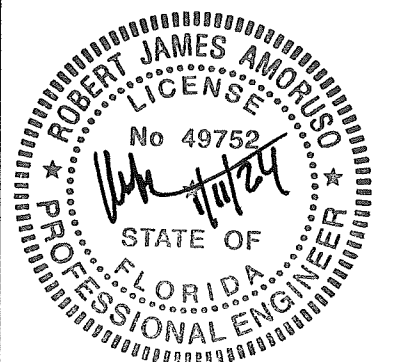
DRAWN BY: RJA  
SCALE: N.T.S.  
REV: A

REV DESCRIPTION DATE BY

A REV 12/28/23 RJA

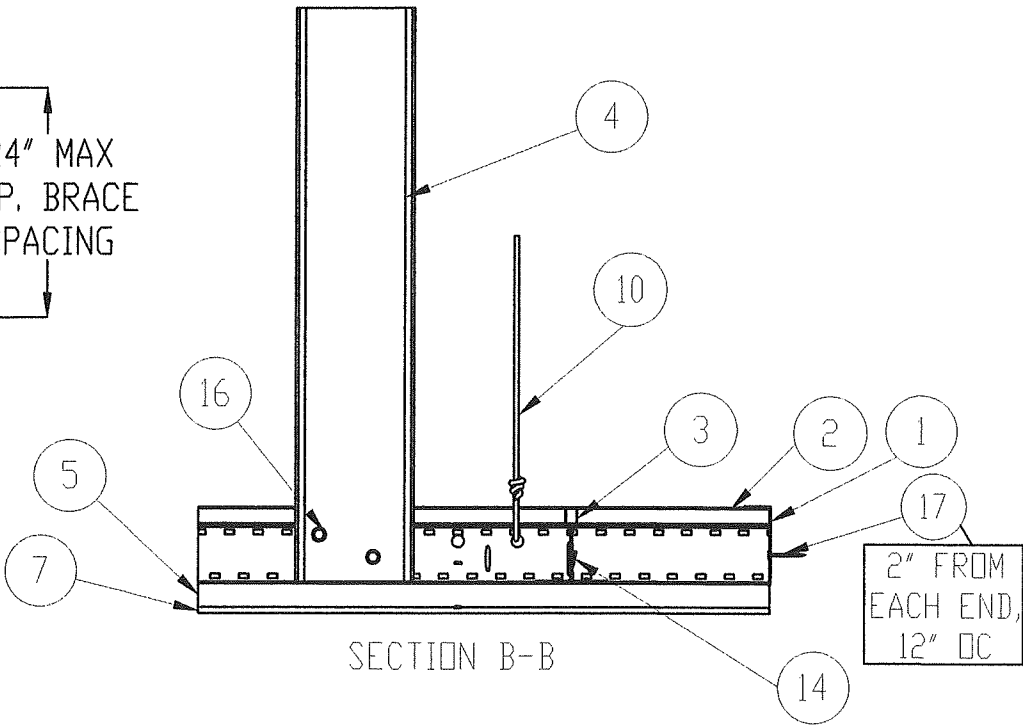
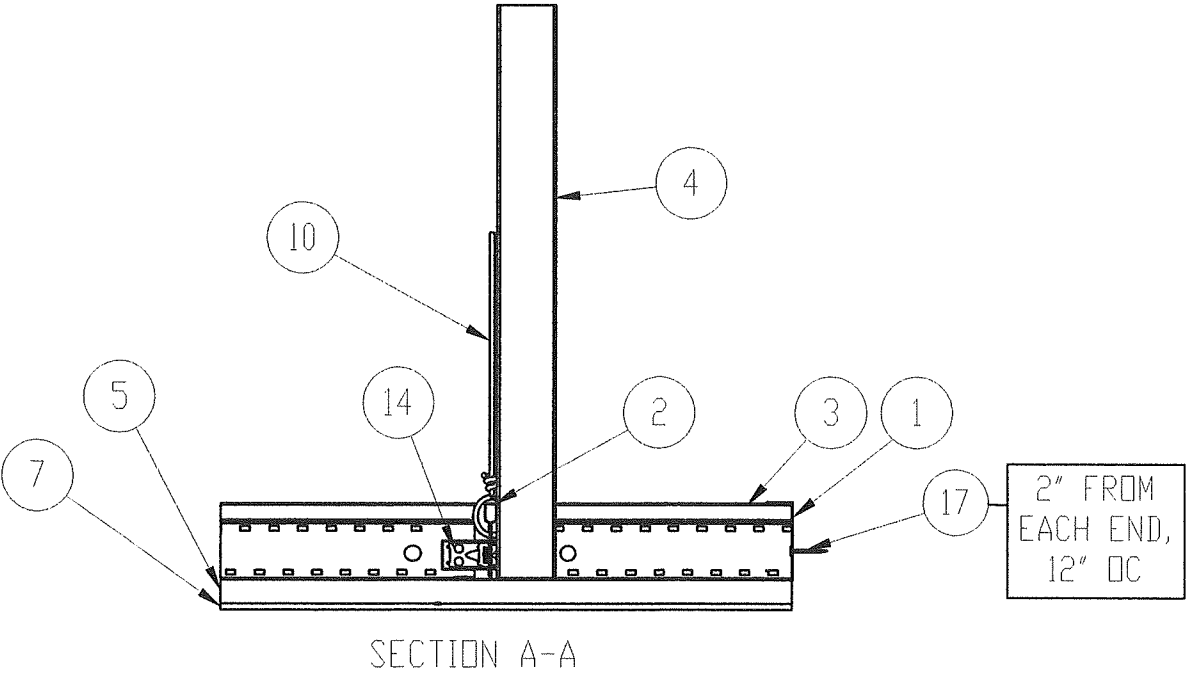
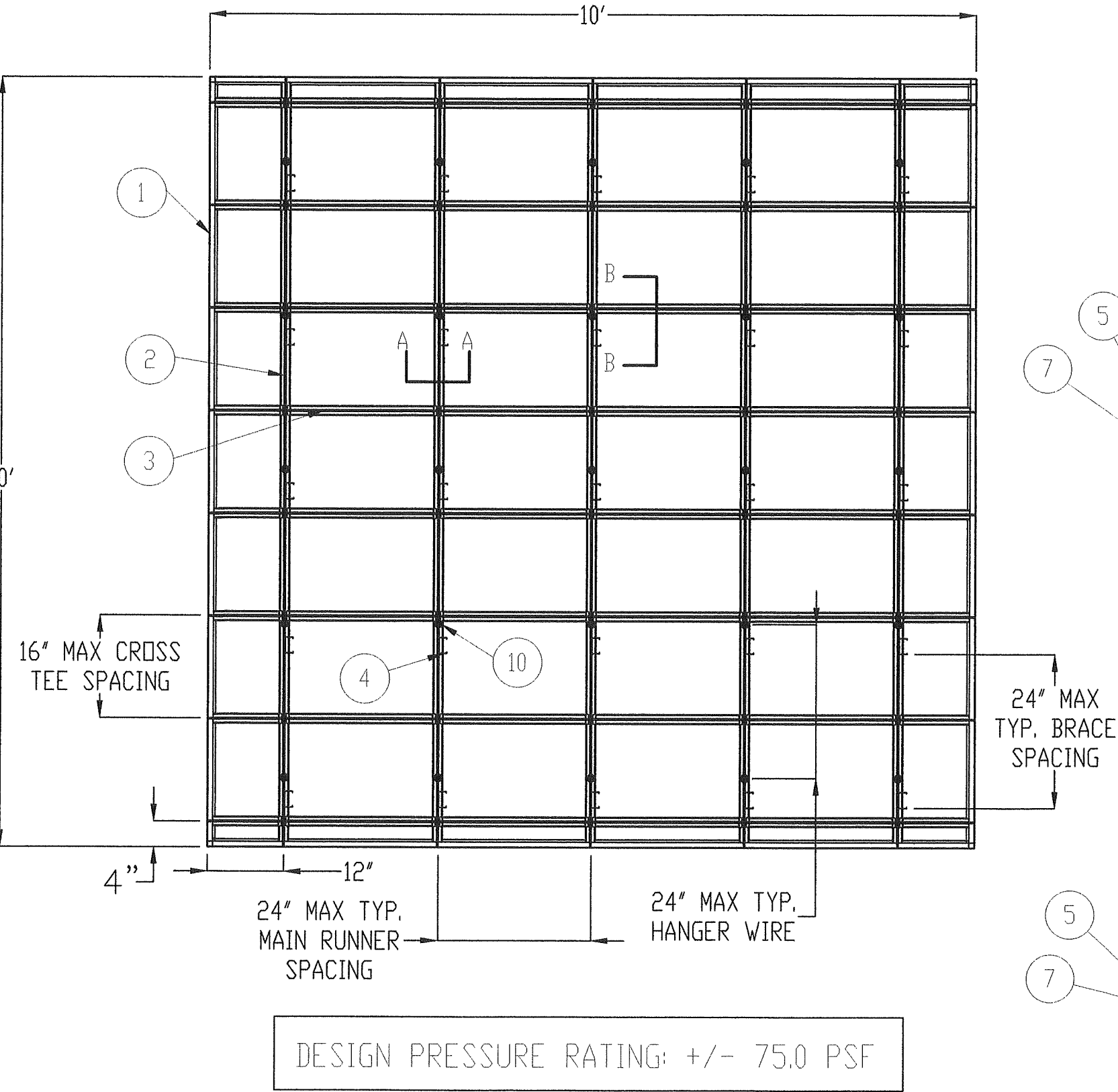
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By   
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# DRYVIT EIFS CEILING SUSPENSION SYSTEM



PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
DRYVIT EIFS CEILING - ELEVATION AND SECTIONS

PREPARED BY: RJA

DATE: 10/17/2022

DRAWING NO: CTEED0001

SHEET: 5 OF 18

REV: A

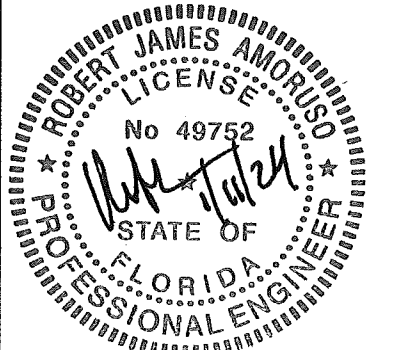
DESCRIPTION: REVISED TO ADD NEW TESTING

DATE: 12/28/23

BY: RJA

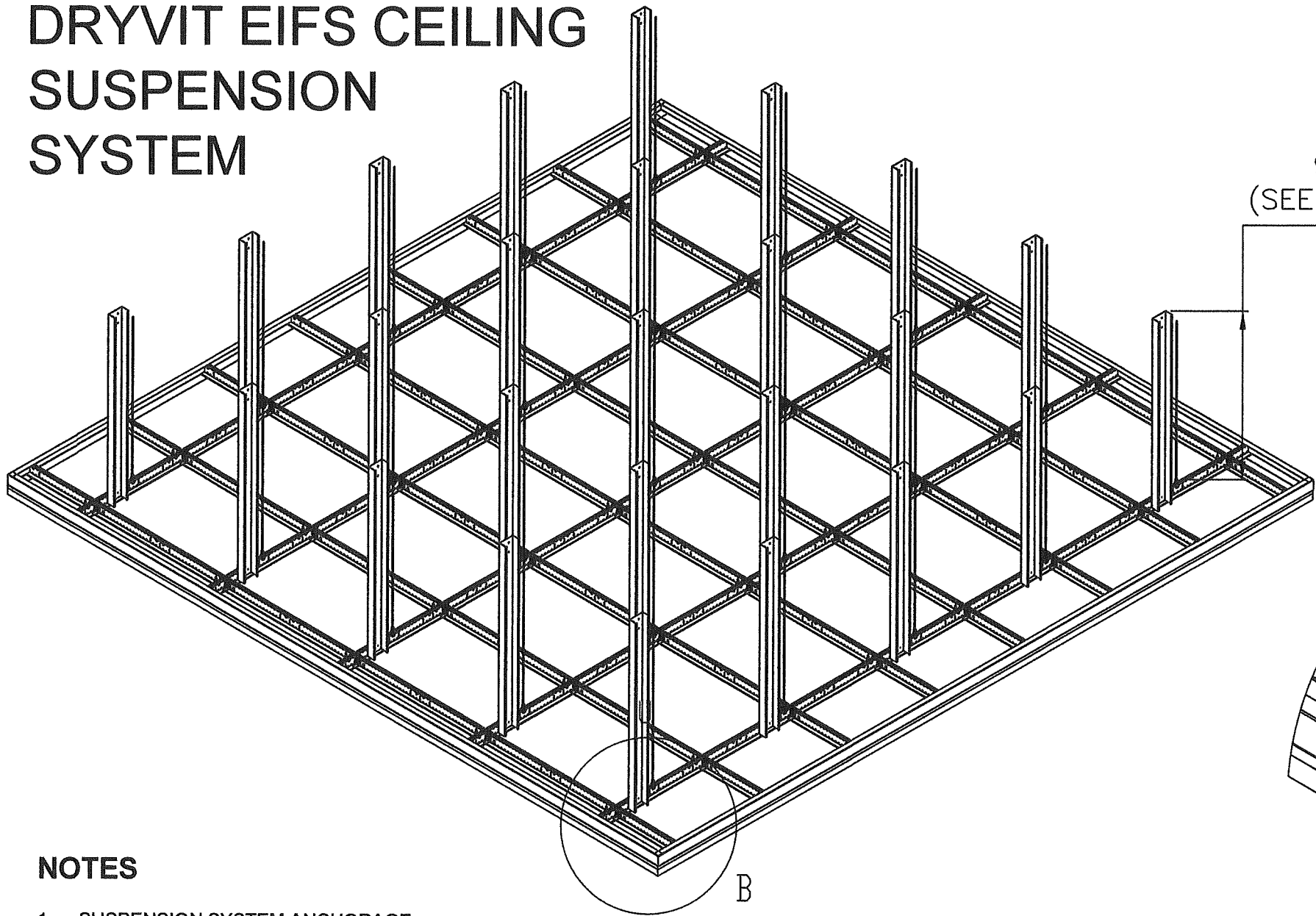
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

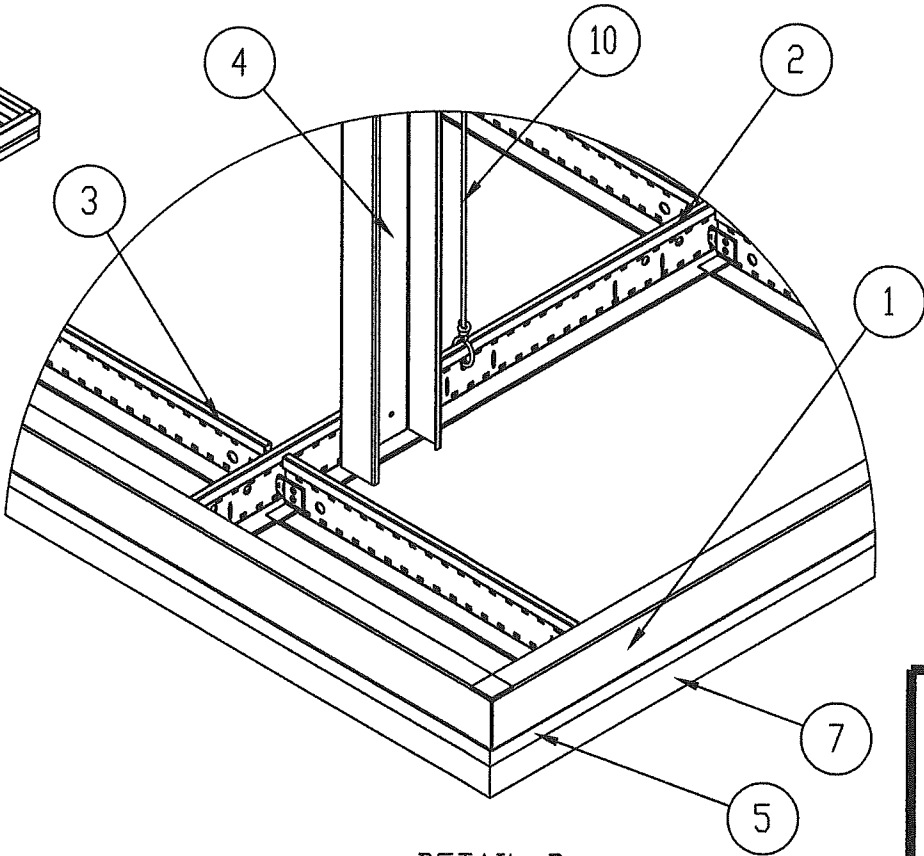




# DRYVIT EIFS CEILING SUSPENSION SYSTEM



9 FEET  
(SEE NOTE 1.4)



DETAIL B

## NOTES

1. SUSPENSION SYSTEM ANCHORAGE
  - 1.1. HANGER WIRE MUST BE SECURED AT EACH END WITH A MIN OF 3 TURNS/TWIST IN 3" PER ASTM C636
  - 1.2. HANGER WIRES MUST BE SPACED AT A MAXIMUM OF 24" O.C.
  - 1.3. VERTICAL BRACING TO BE INSTALLED ON MAIN RUNNERS AT A MAX OF 24" O.C.
  - 1.4. VERTICAL BRACES FOR SUSPENDED CEILING STEEL GRID SYSTEM MAXIMUM 9 FEET MEASURED FROM BOTTOM OF SUPPORTING STRUCTURE TO TOP OF CEILING STRUCTURAL MEMBERS.
2. PERIMETER CHANNEL SIZE AND ANCHORAGE.
  - 2.1. PERIMETER CHANNEL USED IN TESTING WITH GEORGIA PACIFIC DENSGLOSS SHEATHING WAS 1-5/8" X 1-3/4" 20 GA.
  - 2.2. PERIMETER CHANNEL USED IN TESTING WITH CERTAINTEED GLASROC GYPSUM SHEATHING WAS 1-5/8" X 1-1/4" 20 GA.
  - 2.3. PERIMETER CHANNEL SECURED WITH DRYWALL SCREWS SPACED 2" FROM EACH END AND 12" O.C. MAX.
3. DRYVIT EIFS CEILING (ITEM NO. 5 & 7).
  - 3.1. SHEATHING DESCRIPTION: 1/2" THICK GEORGIA PACIFIC DENSGLOSS OR CERTAINTEED GLASROC GYPSUM, ANCHORED TO THE MAIN RUNNERS, CROSS TEES, AND PERIMETER CHANNEL 8" O.C. WITH #6 X 1-1/4" DRYWALL SCREWS.
  - 3.2. COATING: 1/8" THICK DRYVIT GENESIS BASE COAT WITH PORTLAND CEMENT; PANZER 20 FIBERGLASS MESH WORKED INTO BASE. FOLLOWED BY A SECOND LAYER 3/16" THICK DRYVIT GENESIS BASE COAT WITH PORTLAND CEMENT. A TOPCOAT OF DRYVIT QUARTZPUTZ DPR WAS APPLIED BETWEEN 1/8" AND 3/16" THICKNESS.

PROJECT #423-0201

CERTAINTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
DRYVIT EIFS CEILING - ISOMETRIC AND NOTES

DATE: 10/17/2022

DRAWN BY: RJA

SCALE: N.T.S.

REV: A

PREPARED BY:

DRAWING NO: CTEED0001

SHEET: 6 OF 18

REVISED TO ADD  
NEW TESTING

DESCRIPTION

DATE

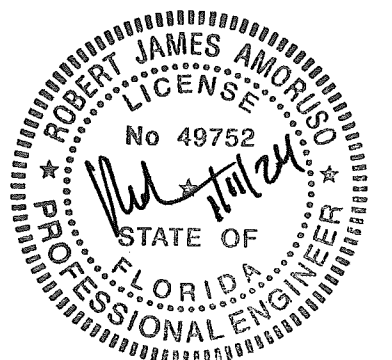
BY

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04

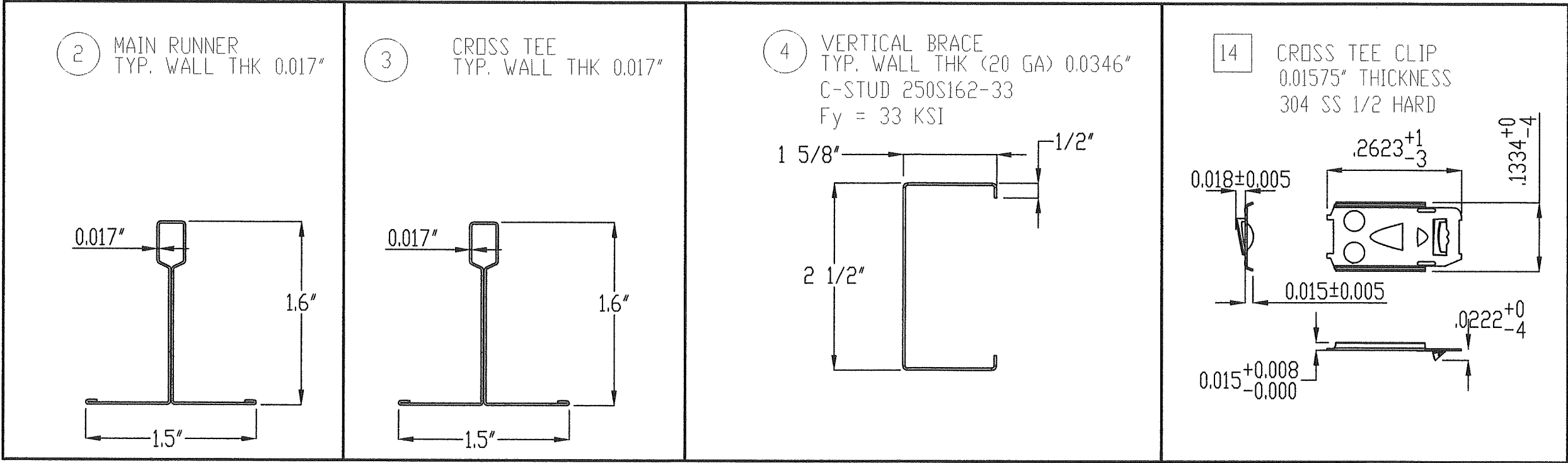
Expiration Date 01/12/2028

By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoroso, P.E.  
Florida P.E. No. 49752



# DRYVIT EIFS CEILING SUSPENSION SYSTEM



ITEM	DESCRIPTION
1	1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL BY OTHER (*)
	1-5/8" X 1-1/4" 20 GA. PERIMETER CHANNEL BY OTHER (*)
2	DWS12-13-20 G90 MAIN RUNNER BY CTC
3	DWS2-13-20 G90 CROSS TEE BY CTC
4	2-1/2" X 1-5/8" 20 GA. STEEL STUD VERTICAL BRACE BY OTHER
5	1/2" CERTAINTEED GLASROC GYPSUM SHEATHING 1/2" GEORGIA PACIFIC DENSGLASS GOLD SHEATHING
6	----
7	EIFS FINISH COAT BY DRYVIT
8	
9	----
10	#12 GA. HANGER WIRE
11	----
12	----
13	----
14	CROSS TEE CLIP BY CTC
15	----
16	#6 X 9/16" SHARP POINT SCREW BY OTHER
17	#6 X 1-1/4" DRYWALL SCREW BY OTHER (*)

\* DRYVIT/DENSGLOSS: 1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL (ITEM NO. 1) AND #6 X 1-1/4" DRYWALL SCREW (ITEM NO. 17) USED IN TESTING FOR SECURING TO TEST BUCK. SEE NOTE 2.1 ON SHEET 6.

\* DRYVIT/GLASROC: 1-5/8" X 1-1/4" 20 GA. PERIMETER CHANNEL (ITEM NO. 1) AND #6 X 1-1/4" DRYWALL SCREW (ITEM NO. 17) USED IN TESTING FOR SECURING TO TEST BUCK. SEE NOTE 2.2 ON SHEET 6.

STEEL COMPONENTS ARE ASTM A653 CS TYPE B

PROJECT #423-0201

CERTAINTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
DRYVIT EIFS CEILING - BOM AND COMPONENTS

PREPARED BY: RJA DATE: 10/17/2022

SCALE: N.T.S. DRAWING NO: CTEED0001

REV: A SHEET: 7 OF 18

REVISED TO ADD  
NEW TESTING

DESCRIPTION

DATE

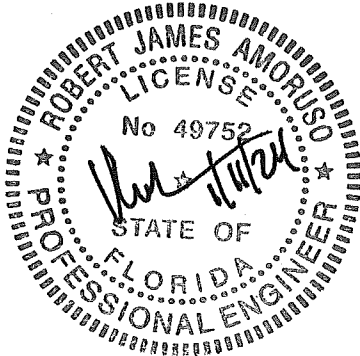
BY

12/28/23

RJA

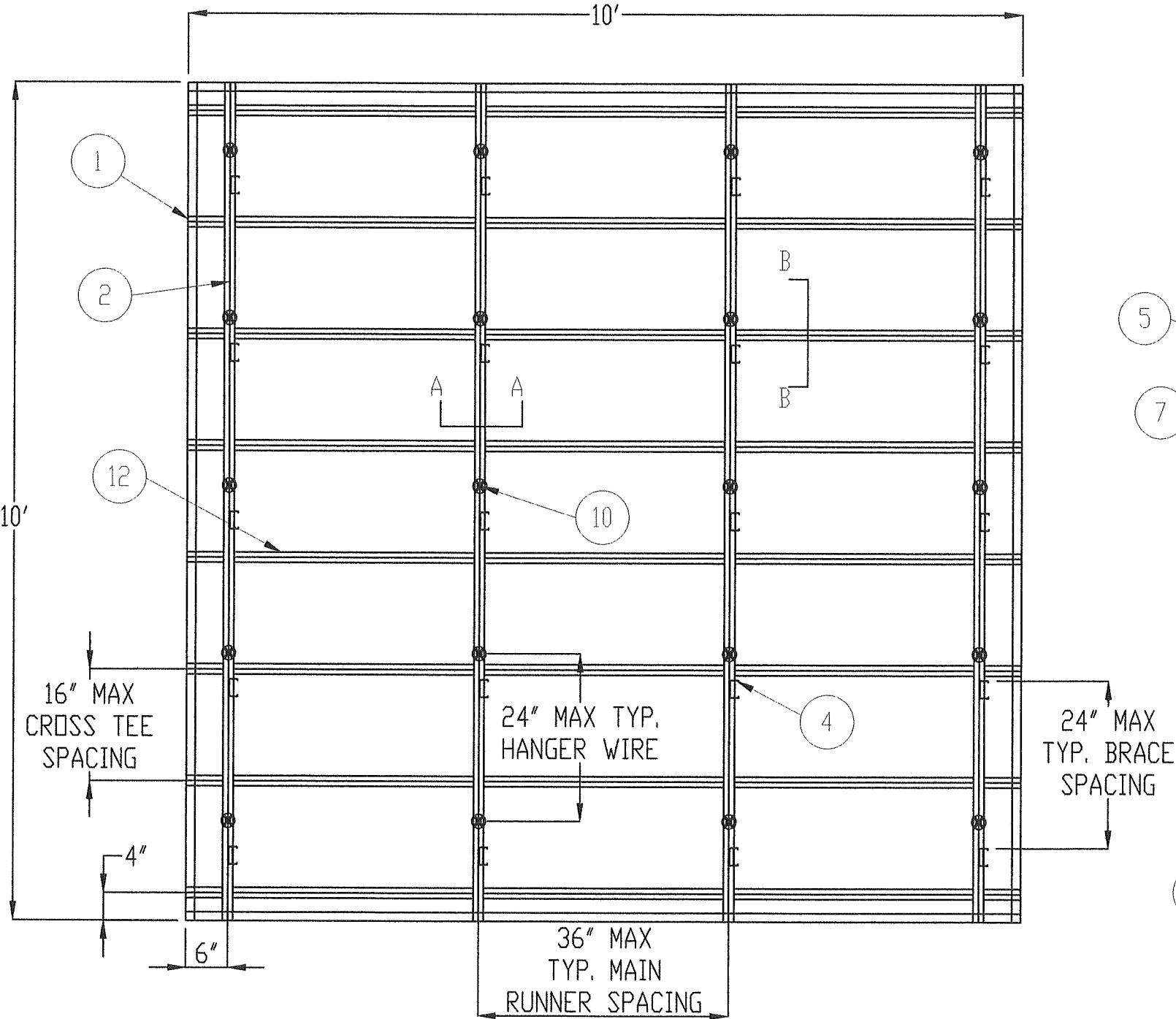
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

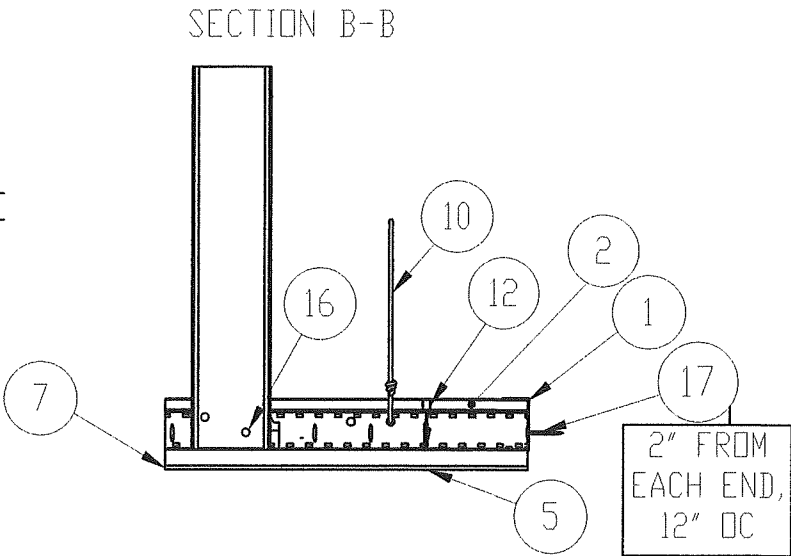
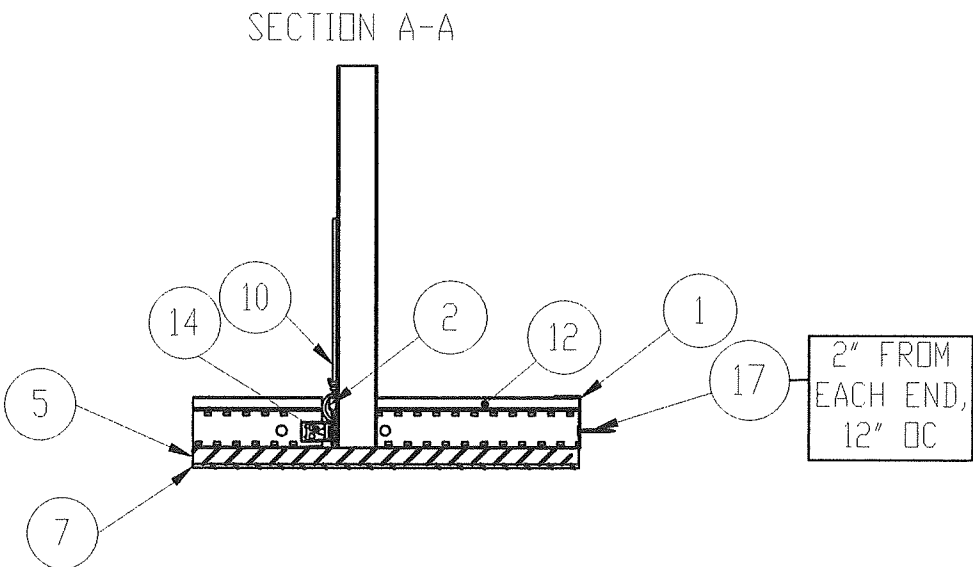




# STO EIFS/DENSGLASS CEILING SUSPENSION SYSTEM



DESIGN PRESSURE RATING: +/- 75.0 PSF



PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
STO EIFS/DENSGLASS CEILING - ELEVATION AND SECTIONS  
PREPARED BY: RJA

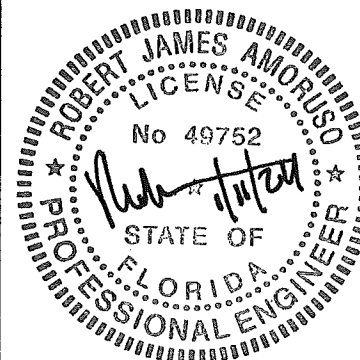
DATE: 10/17/2022  
DRAWING NO: CTEED0001  
SHEET: 8 OF 18

SCALE: N.T.S.  
REV: A

REVISED TO ADD NEW TESTING  
12/28/23  
RJA  
DATE  
DESCRIPTION  
BY

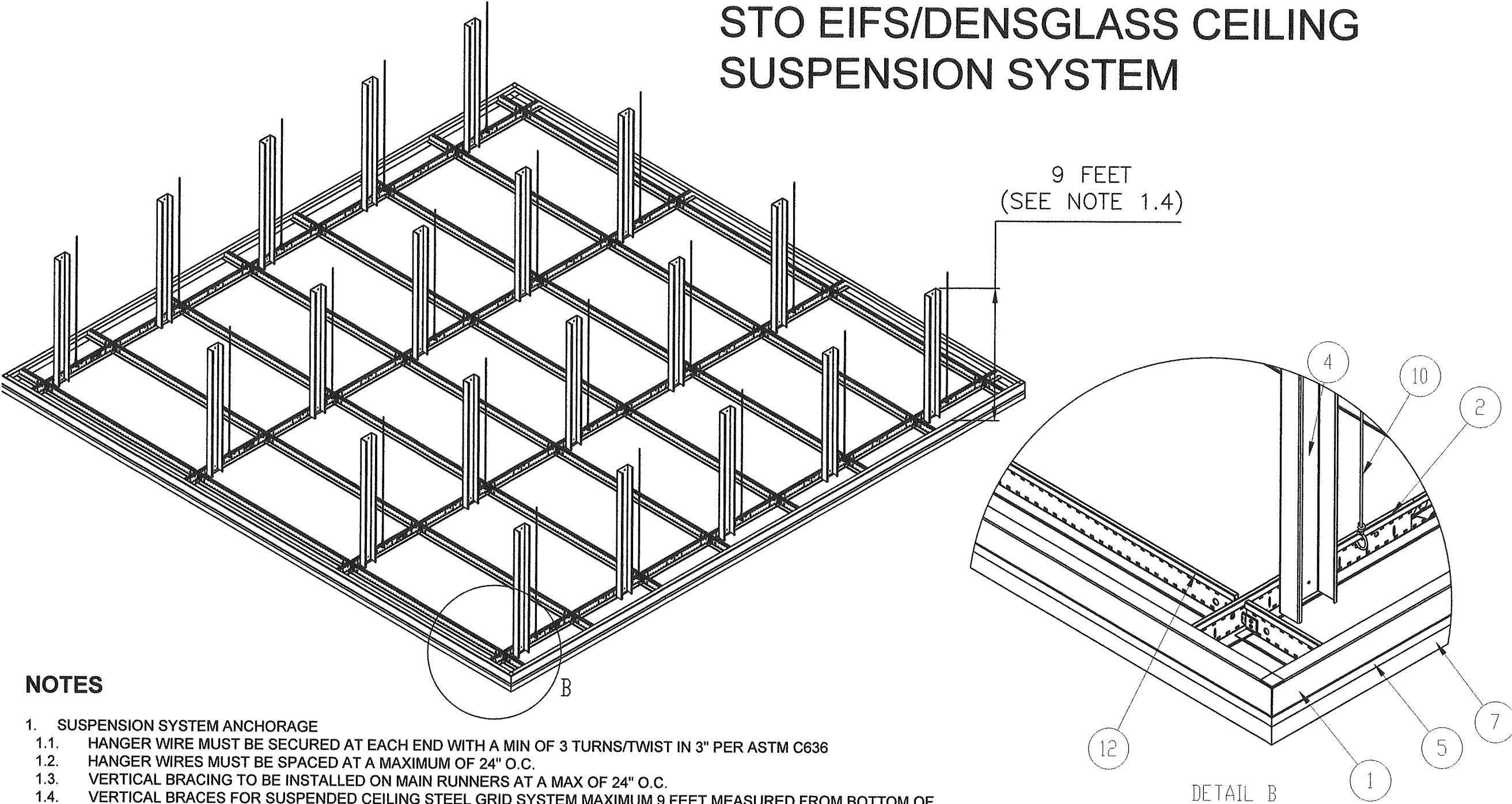
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# STO EIFS/DENSGLOSS CEILING SUSPENSION SYSTEM



## NOTES

1. SUSPENSION SYSTEM ANCHORAGE
  - 1.1. HANGER WIRE MUST BE SECURED AT EACH END WITH A MIN OF 3 TURNS/TWIST IN 3" PER ASTM C636
  - 1.2. HANGER WIRES MUST BE SPACED AT A MAXIMUM OF 24" O.C.
  - 1.3. VERTICAL BRACING TO BE INSTALLED ON MAIN RUNNERS AT A MAX OF 24" O.C.
  - 1.4. VERTICAL BRACES FOR SUSPENDED CEILING STEEL GRID SYSTEM MAXIMUM 9 FEET MEASURED FROM BOTTOM OF SUPPORTING STRUCTURE TO TOP OF CEILING STRUCTURAL MEMBERS.
2. PERIMETER CHANNEL SIZE AND ANCHORAGE.
  - 2.1. PERIMETER CHANNEL USED IN TESTING WITH GEORGIA PACIFIC DENSGLOSS WAS 1-5/8" X 1-3/4" 20 GA.
  - 2.2. PERIMETER CHANNEL SECURED WITH DRYWALL SCREWS SPACED 2" FROM EACH END AND 12" O.C.
3. STO EIFS CEILING (ITEM NO. 5 & 7).
  - 3.1. SHEATHING DESCRIPTION: 1/2" THICK GEORGIA PACIFIC DENSGLOSS ANCHORED TO THE MAIN RUNNERS, CROSS TEES, AND PERIMETER CHANNEL 8" O.C. WITH #6 X 1-1/4" DRYWALL SCREWS.
  - 3.2. COATING: 1/8" THICK STO BTS EXTRA BASE COAT; ARMOR MATT XX FIBERGLASS MESH WORKED INTO BASE. FOLLOWED BY A SECOND LAYER 3/16" THICK STO BTS EXTRA BASE COAT. A TOPCOAT OF STO SWIRL DPR WAS APPLIED BETWEEN 1/8" AND 3/16" THICKNESS.

PROJECT #423-0201

REV	DESCRIPTION	DATE	BY
A	REVISED TO ADD NEW TESTING	12/28/23	RJA

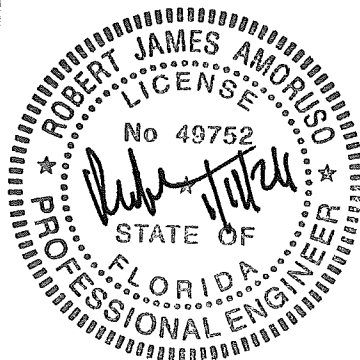
CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
STO EIFS/DENSGLOSS CEILING - ISOMETRIC AND NOTES  
PREPARED BY: RJA  
DATE: 10/17/2022  
DRAWING NO: CTEED0001  
SHEET: 9 OF 18

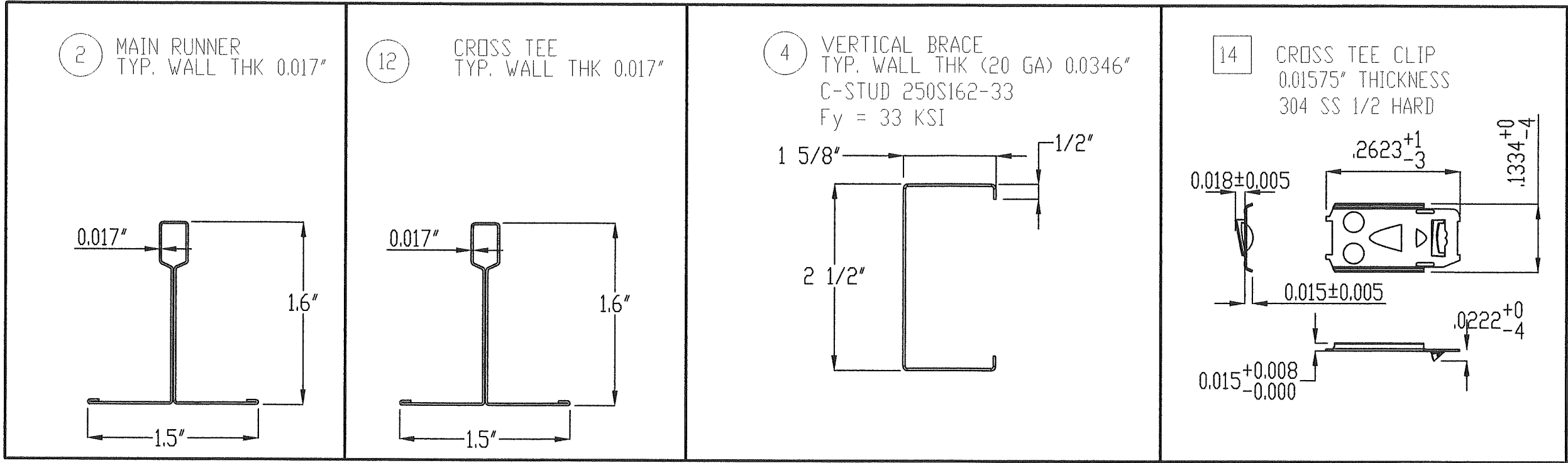
PTC PRODUCT DESIGN GROUP, LLC  
PO BOX 520775  
LONGWOOD, FLORIDA 32752  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-comp.com  
FBPE C.A. NO. 25935

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoroso, P.E.  
Florida P.E. No. 49752



STO EIFS/DENSGLASS CEILING SUSPENSION SYSTEM



ITEM	DESCRIPTION
1	1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL BY OTHER (*)
2	DWS12-13-20 G90 MAIN RUNNER BY CTC
3	-----
4	2-1/2" X 1-5/8" 20 GA. STEEL STUD VERTICAL BRACE BY OTHER
5	1/2" GEORGIA PACIFIC DENSGLASS GOLD SHEATHING
6	-----
7	EIFS FINISH COAT BY STO
8	-----
9	-----
10	#12 GA. HANGER WIRE
11	-----
12	DWS3-13-20 G90 CROSS TEE BY CTC
13	-----
14	CROSS TEE CLIP BY CTC
15	-----
16	#6 X 9/16" SHARP POINT SCREW BY OTHER
17	#6 X 1-1/4" DRYWALL SCREW BY OTHER (*)

\* 1-5/8" X 1-3/4" 20 GA. PERIMETER CHANNEL (ITEM NO. 1) AND #6 X 1-1/4" DRYWALL SCREW (ITEM NO. 17) USED IN TESTING FOR SECURING TO TEST BUCK.

STEEL COMPONENTS ARE ASTM A653 CS TYPE B

PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
STO EIFS/DENSGLASS CEILING - BOM AND COMPONENTS

DATE: 10/17/2022

DRAWING NO: CTEED0001

SHEET: 10 OF 18

DRAWN BY: RJA


SCALE: N.T.S.

REV: A

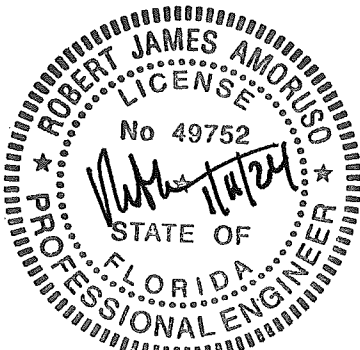
PREPARED BY:

PTC PRODUCT DESIGN GROUP, LLC  
PO BOX 520775  
LONGWOOD, FLORIDA 32752  
FBPE C.A. NO. 26935

Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-corp.com

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By   
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

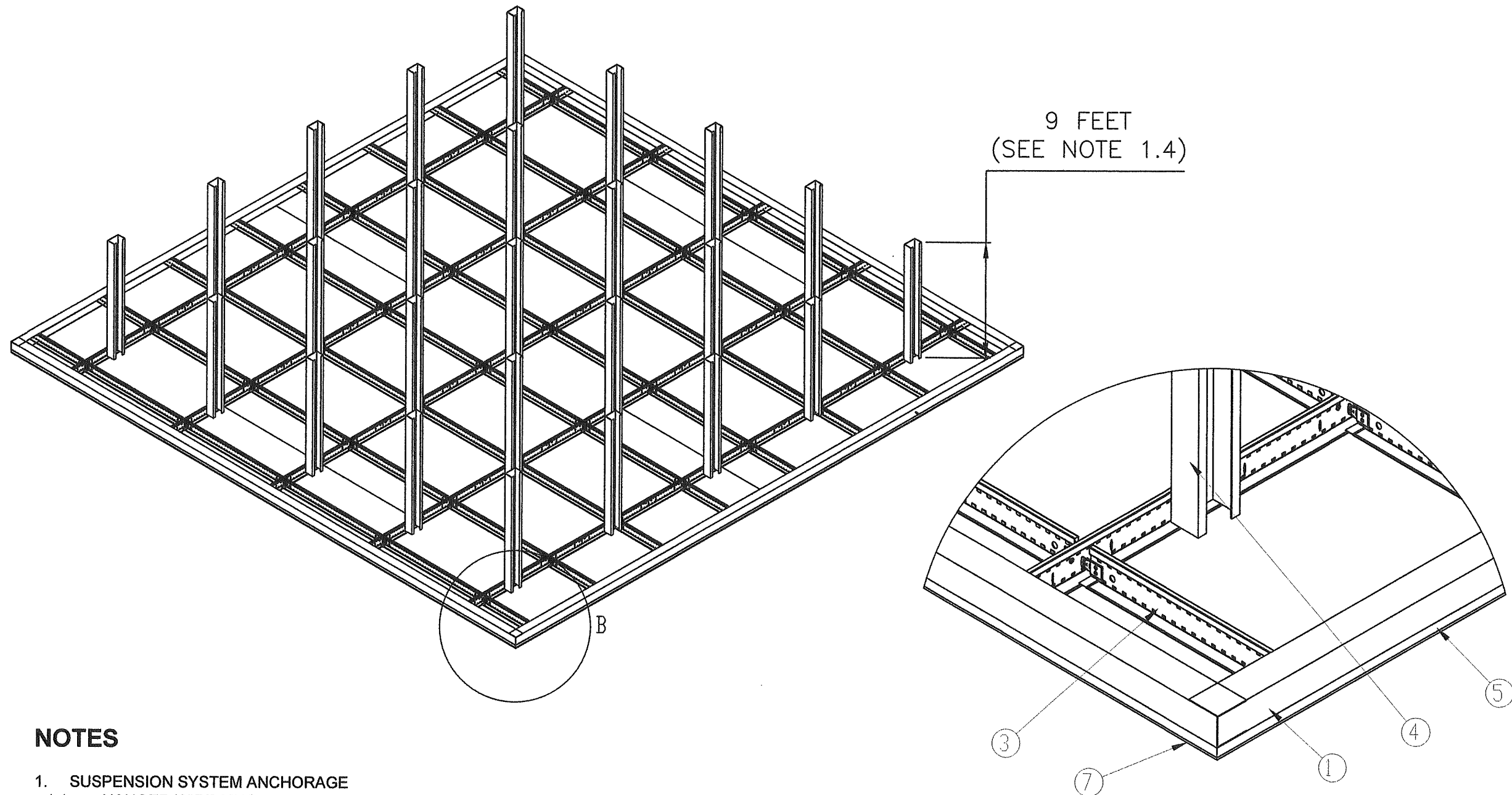








# STO EIFS/GLASROC CEILING SUSPENSION SYSTEM



## NOTES

1. SUSPENSION SYSTEM ANCHORAGE

  - 1.1. HANGER WIRE MUST BE SECURED AT EACH END WITH A MIN OF 3 TURNS/TWIST IN 3" PER ASTM C636
  - 1.2. HANGER WIRES MUST BE SPACED AT A MAXIMUM OF 24" O.C.
  - 1.3. VERTICAL BRACING TO BE INSTALLED ON MAIN RUNNERS AT A MAX OF 24" O.C.
  - 1.4. VERTICAL BRACES FOR SUSPENDED CEILING STEEL GRID SYSTEM MAXIMUM 9 FEET MEASURED FROM BOTTOM OF SUPPORTING STRUCTURE TO TOP OF CEILING STRUCTURAL MEMBERS.

2. PERIMETER CHANNEL SIZE AND ANCHORAGE.

  - 2.1. PERIMETER CHANNEL USED IN TESTING WITH CERTAINTED GLASROC GYPSUM SHEATHING WAS 1-5/8" X 1-1/4" 20 GA.
  - 2.2. PERIMETER CHANNEL SECURED WITH DRYWALL SCREWS SPACED 2" FROM EACH END AND 12" O.C. MAX.

3. STO EIFS CEILING (ITEM NO. 5 & 7).

  - 3.1. SHEATHING DESCRIPTION: 1/2" THICK CERTAINTED GLASROC GYPSUM ANCHORED TO THE MAIN RUNNERS, CROSS TEES, AND PERIMETER CHANNEL 8" O.C. WITH #6 X 1-1/4" DRYWALL SCREWS.
  - 3.2. COATING: 1/8" THICK DRYVIT GENESIS BASE COAT WITH PORTLAND CEMENT; PANZER 20 FIBERGLASS MESH WORKED INTO BASE. FOLLOWED BY A SECOND LAYER 3/16" THICK DRYVIT GENESIS BASE COAT WITH PORTLAND CEMENT. A TOPCOAT OF DRYVIT QUARTZPUTZ DPR WAS APPLIED BETWEEN 1/8" AND 3/16" THICKNESS.

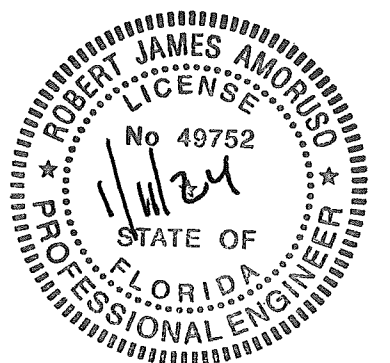
<p><b>CERTANTEED CEILINGS CORPORATION</b>  <b>20 MOORES ROAD</b>  <b>MALVERN, PA 19355</b></p>		<p><b>PROJECT #423-0201</b></p>	
<p><b>TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT</b>  <b>STO EIFS/GLASROC CEILING - ISOMETRIC AND NOTES</b></p>		<p><b>REVISED TO ADD</b>  <b>NEW TESTING</b></p>	
<p><b>DATE: 10/17/2022</b></p>		<p><b>12/28/23</b></p>	
<p><b>DRAWN BY: RJA</b></p>		<p><b>A</b></p>	
<p><b>SCALE: N.T.S.</b></p>		<p><b>REVISED TO ADD</b>  <b>NEW TESTING</b></p>	
<p><b>REV: A</b></p>		<p><b>DESCRIPTION</b></p>	
<p><b>SHEET: 12 OF 18</b></p>		<p><b>DATE</b></p>	
<p><b>PREPARED BY:</b></p>		<p><b>REV</b></p>	
<p><b>PTC PRODUCT DESIGN GROUP, LLC</b>  <b>PO BOX 520775</b>  <b>LONGWOOD, FLORIDA 32752</b>  <b>FBPE C.A. NO. 25935</b></p>		<p><b>BY</b></p>	

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04

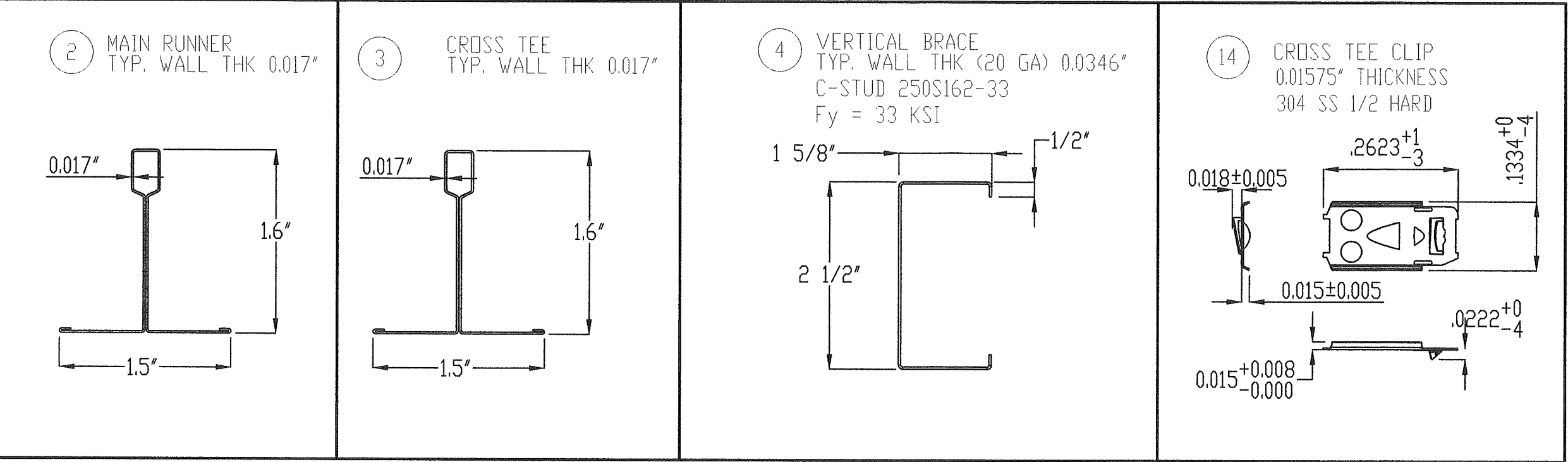
**Expiration Date** 01/12/2028

By   
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752



STO EIFS/GLASROC CEILING SUSPENSION SYSTEM



ITEM	QTY	DESCRIPTION
1	A/R	1-5/8" X 1-1/4" 20 GA. PERIMETER CHANNEL BY OTHER (*)
2	A/R	DWS12-13-20 G90 MAIN RUNNER BY CTC
3	A/R	DWS2-13-20 G90 CROSS TEE BY CTC
4	A/R	2-1/2" X 1-5/8" 20 GA. STEEL STUD VERTICAL BRACE BY OTHER
5	A/R	1/2" CERTAINTED GLASROC GYPSUM SHEATHING
6	A/R	----
7	A/R	EIFS FINISH COAT BY STO
8	A/R	----
9	A/R	----
10	A/R	#12 GA. HANGER WIRE
11	A/R	----
12	A/R	----
13	A/R	----
14	A/R	CROSS TEE CLIP BY CTC
15	A/R	----
16	A/R	#6 X 9/16" SHARP POINT SCREW BY OTHER
17	A/R	#6 X 1-1/4" DRYWALL SCREW BY OTHER (*)

\* 1-5/8" X 1-1/4" 20 GA. PERIMETER CHANNEL (ITEM NO. 1) AND #6 X 1-1/4" DRYWALL SCREW (ITEM NO. 17) USED IN TESTING FOR SECURING TO TEST BUCK.  
STEEL COMPONENTS ARE ASTM A653 CS TYPE B

PROJECT #423-0201

CERTAINTED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
STO EIFS/GLASROC CEILING - BOM AND COMPONENTS

DATE: 10/17/2022

DRAWING NO: CTEED0001

SHEET: 13 OF 18

DRAWN BY: RJA


SCALE: N.T.S.

REV: A

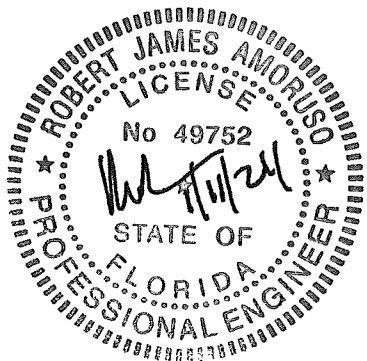
PREPARED BY:

PTC PRODUCT DESIGN GROUP, LLC  
PO BOX 520775  
LONGWOOD, FLORIDA 32752  
FPE C.A. NO. 25935

Phone: 321.690.1768  
Fax: 321.690.1769  
Email: info@cc-corp.com

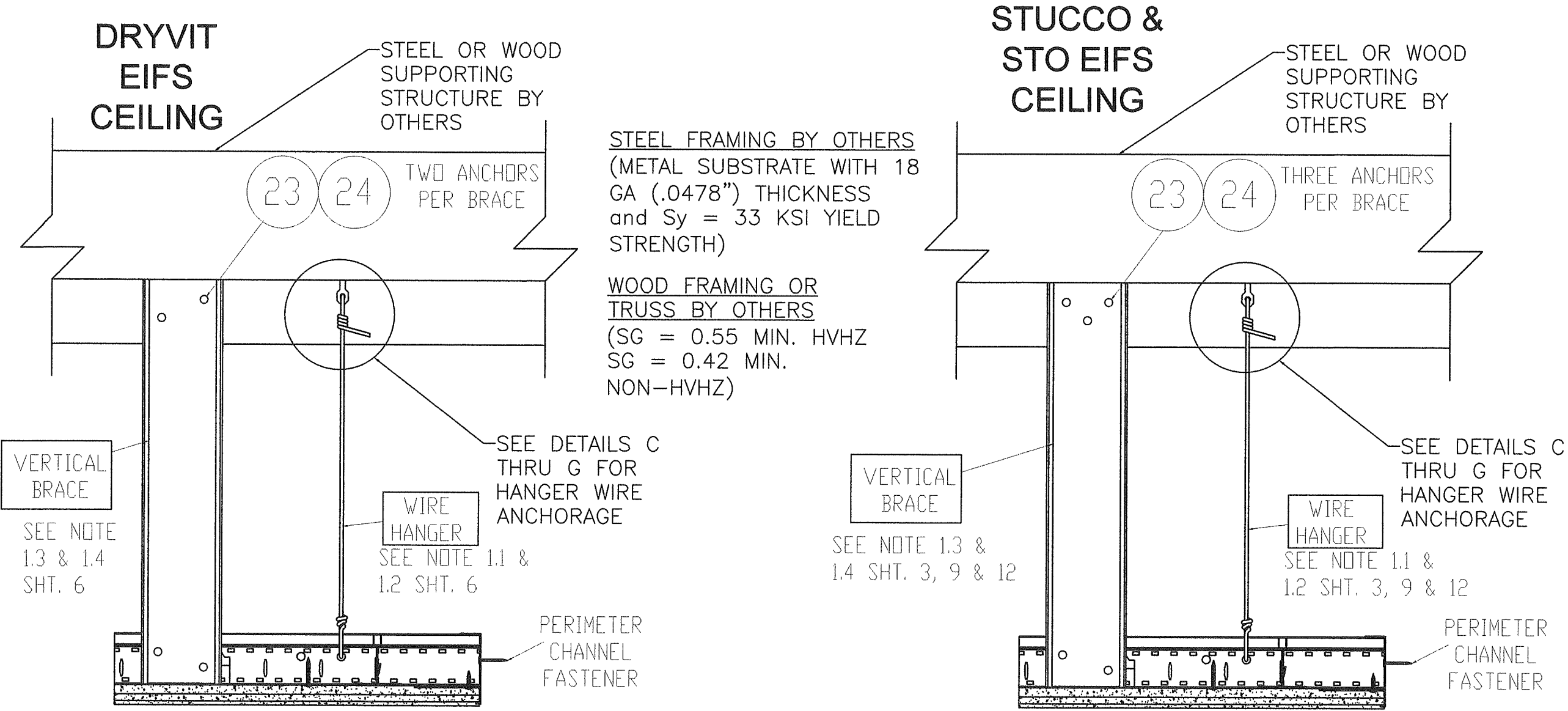
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By   
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# VERTICAL BRACE TO SUBSTRATE ANCHORAGE FOR CEILING SUSPENSION SYSTEM



ITEM	DESCRIPTION
23	#10 X 1-1/4" SELF-DRILLING SHEET METAL SCREW BY OTHER
24	#12 X 1-1/4" WOOD SCREW BY OTHER

PROJECT #423-0201					
CERTANTEED CEILINGS CORPORATION 20 MOORES ROAD MALVERN, PA 19355	TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT VERTICAL BRACE TO SUBSTRATE ANCHORAGE			DATE: 10/17/2022	REVISION: 12/28/23
	DRAWN BY: RJA			DRAWING NO: CTEED0001	REV: A
PREPARED BY: PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FPE C.A. NO. 25905			SCALE: N.T.S.	SHEET: 14 OF 18	DESCRIPTION: REVISED TO ADD NEW TESTING
FPE			Phone: 321.690.1768 Fax: 321.690.1769 Email: info@fpe-corp.com	BY: RJA	

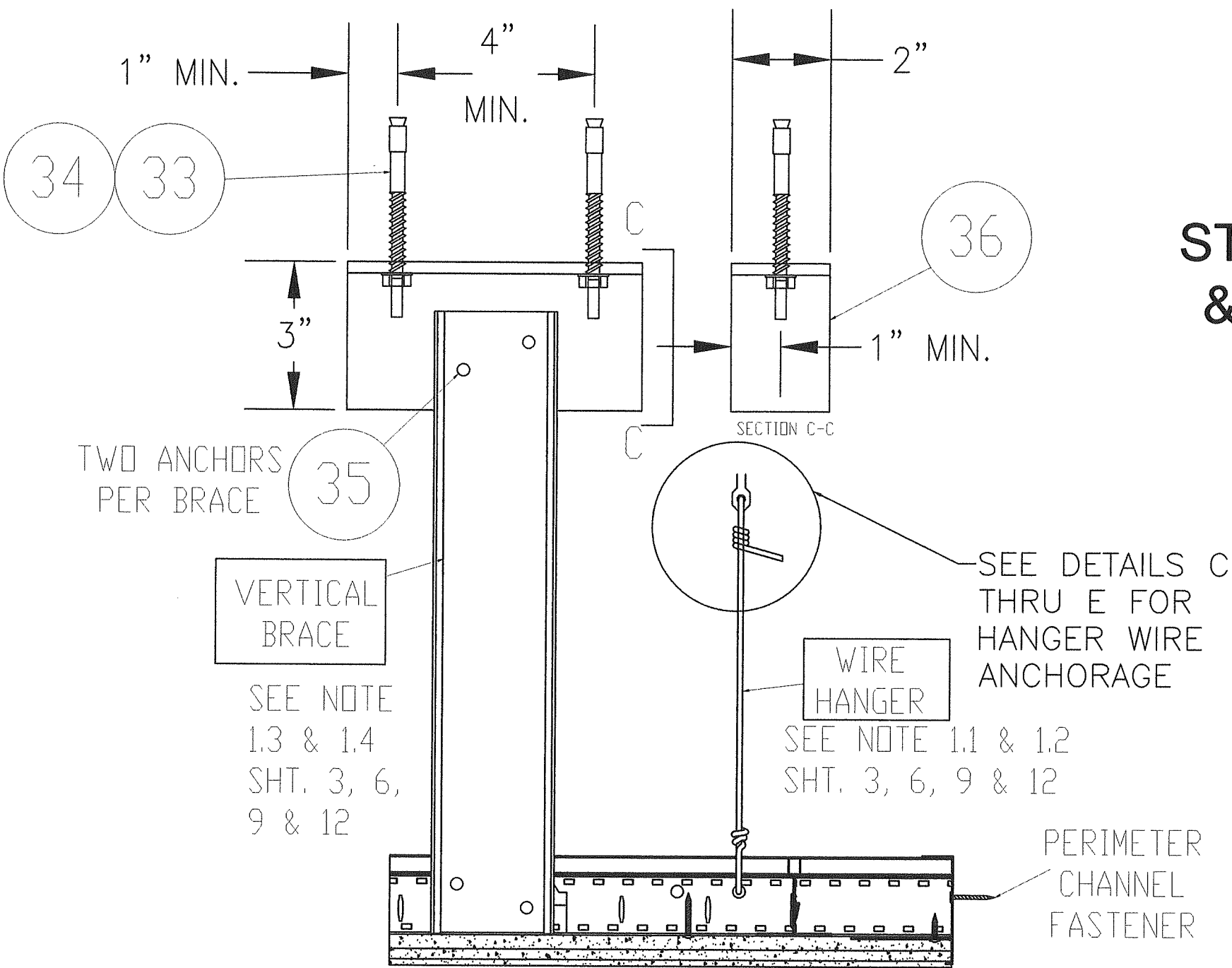
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

*[Professional Engineer Seal: Robert James Amoruso, License No. 49752, State of Florida, Professional Engineer]*



# VERTICAL BRACE TO CONCRETE SUBSTRATE ANCHORAGE FOR CEILING SUSPENSION SYSTEM



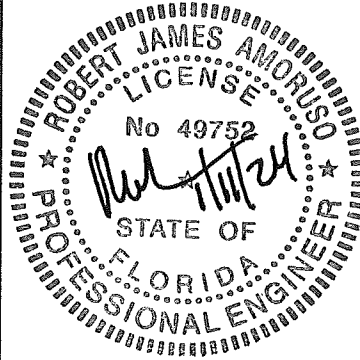
STUCCO, DRYVIT  
& STO CEILING

ITEM	DESCRIPTION
33	1/4" DIA. HILTI KWIK BOLT 3
34	1/4" DIA. ITW/RED HEAD TRUBOLT
35	1/4-14 Hex Head (Type 8 Screw) per ICC ESR-3332
36	L3 X 2 X 1/8" THICKNESS STRUCTURAL ANGLE, ASTM A36

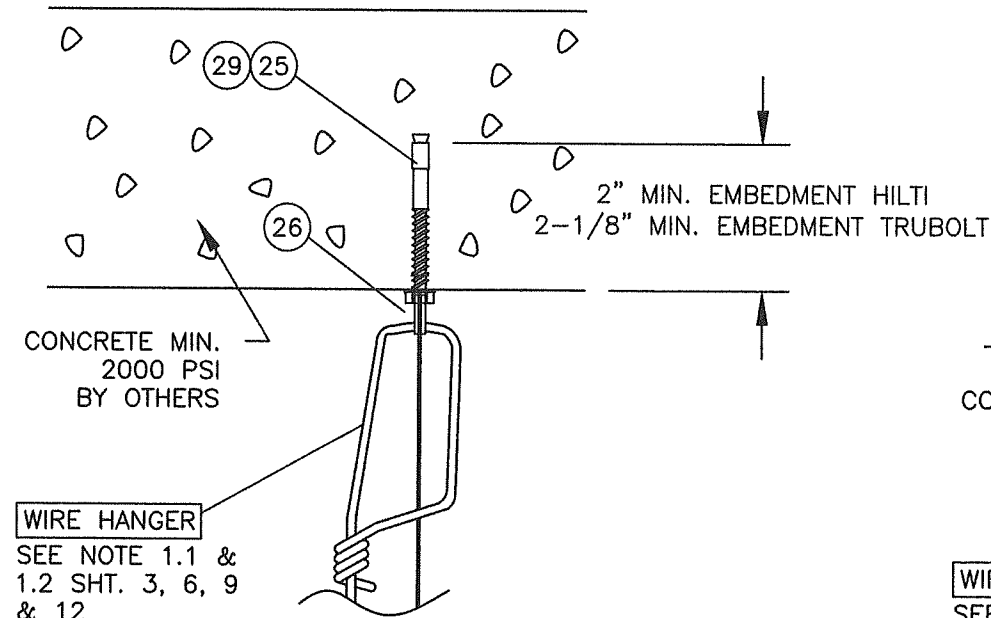
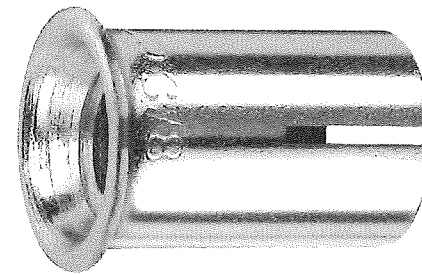
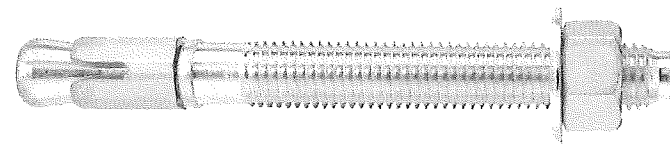
PROJECT #423-0201					
CERTAINTED CEILINGS CORPORATION 20 MOORES ROAD MALVERN, PA 19355	TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT VERTICAL BRACE TO SUBSTRATE ANCHORAGE	DRAWN BY: RJA	DATE: 10/17/2022	DRAWING NO: CTEED0001	SHEET: 15 OF 18
PREPARED BY:	SCALE: N.T.S.	REV: A	REV: A	REV: A	REV: A
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25935	Phone: 321.690.1768 Fax: 321.690.1789 Email: info@ptc-corp.com	RJA	10/17/2022	CTEED0001	15 OF 18
CERTAINTED CEILINGS CORPORATION 20 MOORES ROAD MALVERN, PA 19355	TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT VERTICAL BRACE TO SUBSTRATE ANCHORAGE	DRAWN BY: RJA	DATE: 10/17/2022	DRAWING NO: CTEED0001	SHEET: 15 OF 18
PREPARED BY:	SCALE: N.T.S.	REV: A	REV: A	REV: A	REV: A
PTC PRODUCT DESIGN GROUP, LLC PO BOX 520775 LONGWOOD, FLORIDA 32752 FBPE C.A. NO. 25935	Phone: 321.690.1768 Fax: 321.690.1789 Email: info@ptc-corp.com	RJA	10/17/2022	CTEED0001	15 OF 18

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

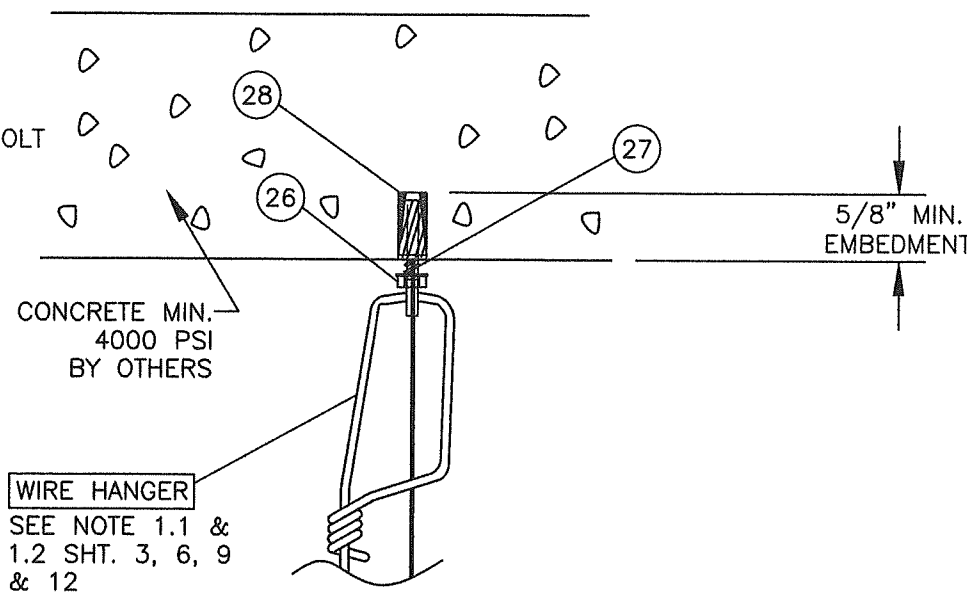


# WIRE HANGER TO SUBSTRATE ANCHORAGE FOR CEILING SUSPENSION SYSTEM



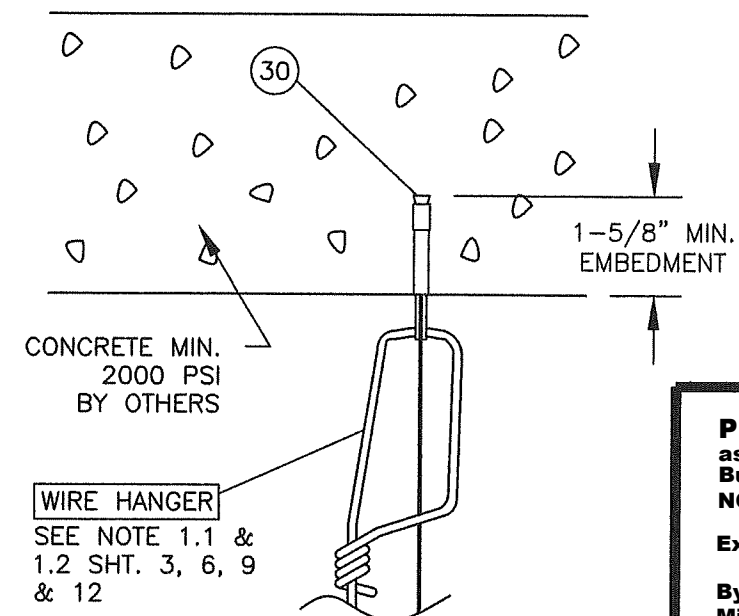
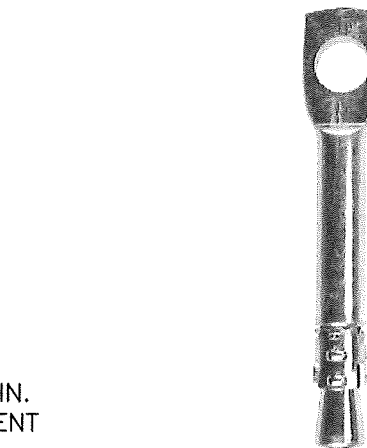
**DETAIL C**

1/4" DIA. HILTI KWIK BOLT 3  
1/4" DIA. ITW/RED HEAD TRUBOLT  
W/EYE NUT



**DETAIL D**

1/4" DIA. HILTI HDI-P DROP-IN  
W/EYE NUT AND THREADED ROD



**DETAIL E**

1/4" DIA. TIE-WIRE  
WEDGE ANCHOR BY  
SIMPSON STRONG-TIE

ITEM	DESCRIPTION
25	1/4" DIA. HILTI KWIK BOLT 3 WITH 1/4" - 20 THREADED EYELET (ITEM #26)
26	1/4" - 20 THREADED EYELET (MCMASTER-CARR OR EQUIVALENT *)
27	1/4" - 20 THREADED ROD (ASTM A307 GR. A Su = 60 KSI OR EQUIVALENT)
28	1/4 - 20 HILTI HDI-P DROP-IN ANCHOR
29	1/4" DIA. ITW/RED HEAD TRUBOLT WITH 1/4" - 20 THREADED EYELET (ITEM #26)
30	1/4" DIA. TIE-WIRE WEDGE ANCHOR BY SIMPSON STRONG-TIE
31	1/4"-14 I-LAG BRAND EYE LAG SCREW FOR STEEL SUBSTRATE BY DOC'S INDUSTRIES
32	1/4"-14 I-LAG BRAND EYE LAG SCREW FOR WOOD SUBSTRATE BY DOC'S INDUSTRIES

PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
WIRE HANGER TO SUBSTRATE ANCHORAGE

DATE: 10/17/2022  
DRAWING NO: CTEED0001  
SHEET: 16 OF 18  
DRAWN BY: RJA  
SCALE: N.T.S.  
REV: A

PTC PRODUCT DESIGN GROUP, LLC  
PO BOX 520775  
LONGWOOD, FLORIDA 32752  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-corp.com

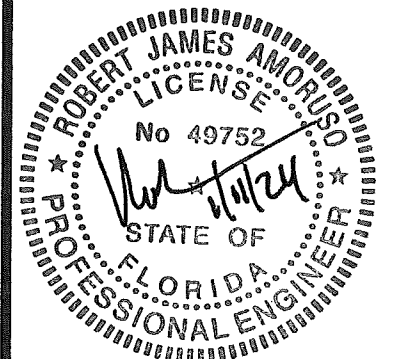
**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 24-0129.04

Expiration Date 01/12/2028

By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752





# WIRE HANGER TO SUBSTRATE ANCHORAGE FOR CEILING SUSPENSION SYSTEM



750 SD



175 SD

FIGURE 1—I-LAG BRAND EYE LAG SCREWS

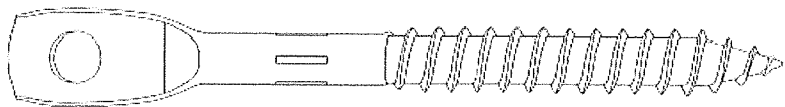
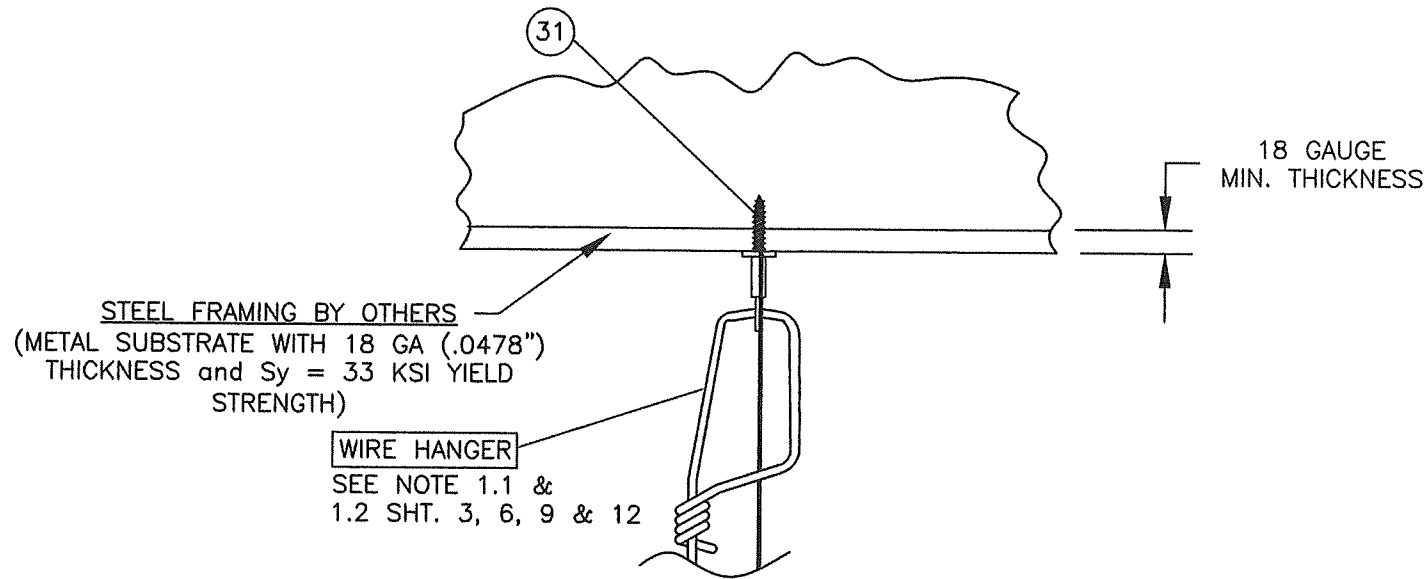
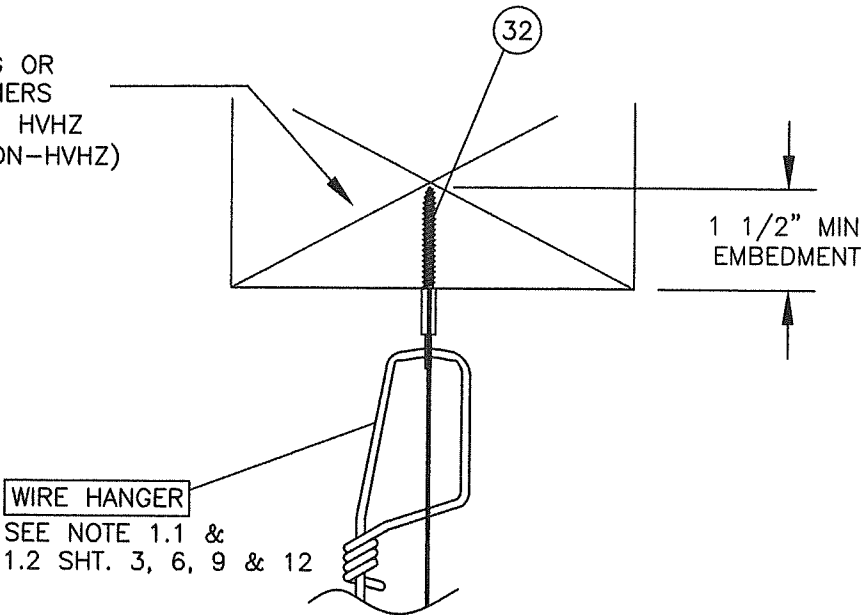


FIGURE 1—I-LAG™ BRAND SCREW

WOOD FRAMING OR  
TRUSS BY OTHERS  
(SG = 0.55 MIN. HVHZ  
SG = 0.42 MIN. NON-HVHZ)



**DETAIL F**  
1/4"—14 I-LAG BRAND EYE LAG  
SCREW FOR STEEL SUBSTRATE BY  
DOC'S INDUSTRIES



**DETAIL G**  
1/4"—14 I-LAG BRAND EYE LAG  
SCREW FOR WOOD SUBSTRATE BY  
DOC'S INDUSTRIES

PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355

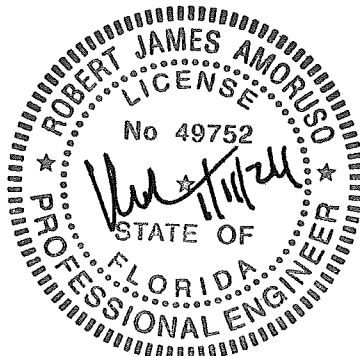
TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT  
WIRE HANGER TO SUBSTRATE ANCHORAGE

PREPARED BY: RJA  
DATE: 10/17/2022  
DRAWING NO: CTEED0001  
SHEET: 17 OF 18  
REV: A

PTC PRODUCT DESIGN GROUP, LLC  
PO BOX 52075  
LONGWOOD, FLORIDA 32752  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptc-corp.com  
FPE C.A. NO. 25935

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By *[Signature]*  
Miami-Dade Product Control

Robert J. Amoroso, P.E.  
Florida P.E. No. 49752





ANCHOR SCHEDULE FOR  
CEILING SUSPENSION SYSTEM

ANCHOR SCHEDULE						
Installation Type	Drawing Sheet No. for Applicable Installation Detail(s)	Substrate (See Notes Below)	Anchor Type	Embedment (in)	Edge Distance (in)	Spacing (in)
Vertical Brace to Supporting Substrate Wood or Steel by Others	14	Steel (1)	#10 x 1-5/8" Self-Drilling SMS	three threads beyond the connected parts	3/8"	1/2"
		Wood (2)	#12 x 1-1/2" Wood Screw	1-3/8"	7/8"	1"
Vertical Brace to 2x3x1/4" Structural Angle	15	Steel (3)	1/4-14 Hex Head (Type 8 Screw) per ICC ESR-3332 (*)	three threads beyond the connected parts	3/4"	3/4"
2x3x1/4" Structural Angle to Concrete Ceiling	15	Concrete (4)	1/4" DIA. HILTI KWIK BOLT 3	2"	2"	4"
		Concrete (4)	1/4" DIA. ITW/RED HEAD TRUBOLT	2-1/8"	2"	4"
Wire Hanger to Concrete Ceiling	16	Concrete (4)	1/4" DIA. HILTI KWIK BOLT 3	2"	2"	4"
		Concrete (4)	1/4" DIA. ITW/RED HEAD TRUBOLT	2-1/8"	2"	4"
		Concrete (5)	1/4" DIA. HILTI HDI-P DROP-IN	5/8" Drop-In Length	2"	4"
		Concrete (6)	1/4" DIA. TIE-WIRE WEDGE ANCHOR BY SIMPSON STRONG-TIE	1-5/8"	2-1/2"	5"
Wire Hanger to Wood or Steel Supporting Substrate by Others	17	Steel (1)	1/4"-14 I-LAG BRAND EYE LAG SCREW FOR STEEL SUBSTRATE BY DOC'S INDUSTRIES	three threads beyond the connected parts	3/4"	3/4"
		Wood (2)	1/4"-14 I-LAG BRAND EYE LAG SCREW FOR WOOD SUBSTRATE BY DOC'S INDUSTRIES	1-1/2"	3/4" Edge 3" End	3"

Substrate Requirements

- 1) Metal Substrate with 18 GA (.0478") THICKNESS and Sy = 33 KSI YIELD STRENGTH
- 2) Wood with SG = 0.55 MIN. HVHZ, SG = 0.42 MIN. NON-HVHZ)
- 3) Structural Steel Angle
- 4) Concrete with Minimum Compressive Strength of 2000 PSI or as limited by the FBC.
- 5) Concrete with Minimum Compressive Strength of 4000 PSI or as limited by the FBC.
- 6) Concrete with Minimum Compressive Strength of 2500 PSI or as limited by the FBC.

\* ICC ESR-3332, 1/4-14 Hex Head (Type 8 Screw) manufacturers: Dewalt Dril-Flex, Elco Dril-Flex, Hilti Kwik-Flex. See ICC ESR-3332 for details

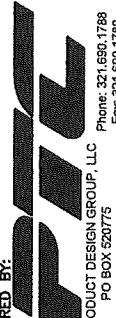
PROJECT #423-0201

CERTANTEED CEILINGS CORPORATION  
20 MOORES ROAD  
MALVERN, PA 19355


TITLE: EXTERIOR CEILING SUSPENSION SYSTEM, NON-IMPACT ANCHOR SCHEDULE

DRAWN BY: RJA  
SCALE: N.T.S.  
REV: A

DATE: 10/17/2022  
DRAWING NO: CTEED0001  
SHEET: 18 OF 18

PREPARED BY:   
PTG PRODUCT DESIGN GROUP, LLC  
PO BOX 520775  
LONGWOOD, FLORIDA 32752  
Phone: 321.690.1788  
Fax: 321.690.1789  
Email: info@ptg-corp.com  
FEPE C.A. NO. 25935

REVISED TO ADD NEW TESTING  
A  
12/28/23  
RJA  
DATE  
DESCRIPTION  
REV

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 24-0129.04  
Expiration Date 01/12/2028  
By   
Miami-Dade Product Control

Robert J. Amoruso, P.E.  
Florida P.E. No. 49752

