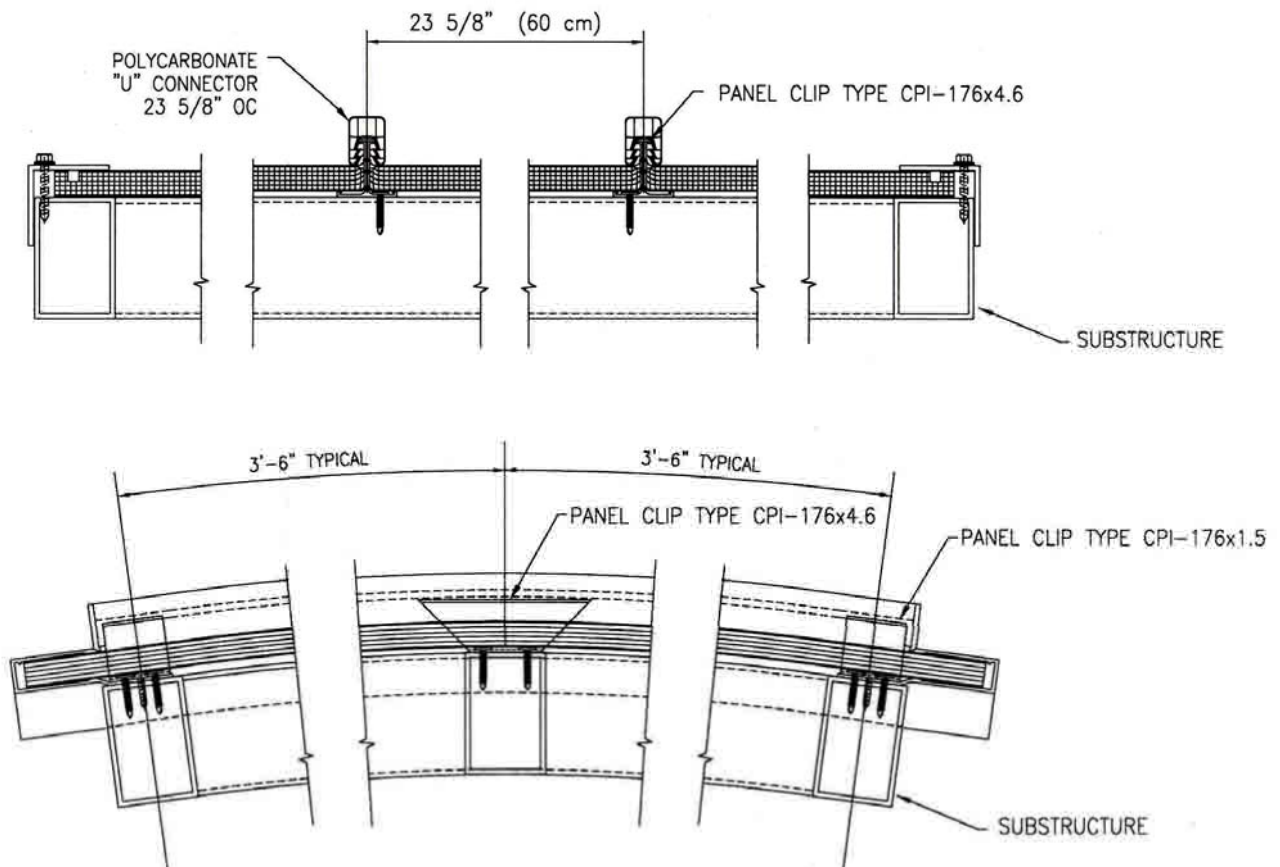


HURRICANE ENDURANCE DAYLIGHTING SYSTEM

A special CPI Pentaglas© system has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

Concept details:



INSTALLATION:

The Pentaglas 16 translucent polycarbonate panel system must be installed in strict compliance with the approved drawings. The maximum design pressure load on the panel is negative 100.0 psf. and positive 110.0 psf. The panel must be retained to sub structure at 3' 6" (maximum) on center. The fully assembled Pentaglas 16 panel system is installed as a skin system over a sub structure. Sub structure (steel or aluminum) would be designed to meet the South Florida Building Code (SFBC) requirements.

SUMMARY OF TEST RESULTS:

- ‰ **IMPACT:** PA 201 IMPACT TEST PROCEDURE: Specimens were impacted in accordance with SFBC Test Protocol PA 201. None failed as a result of impact.
- ‰ **CYCLIC WIND LOADS:** PA 203 CRITERIA FOR TESTING PRODUCTS SUBJECT TO CYCLIC WIND PRESSURE LOADING: Subsequent to impacting specimens were subjected to cyclic loading. The cyclic wind loads tested corresponded to Design Loads + 110 psf. / -100 psf. None failed as a result of cyclic wind loads.
- ‰ **WIND LOADS:** PA 202 CRITERIA FOR TESTING IMPACT & NON IMPACT RESISTANT BUILDING ENVELOPE COMPONENTS USING UNIFORM STATIC AIR PRESSURE. Specimens were wind loaded and tested to failure. Specimens complied with design loads of -100 psf.
- ‰ **AIR INFILTRATION:** In accordance with ASTM E 331:
 - Specimen had no measurable air infiltration @ 1.57 psf. static wind load.
 - Specimen had no measurable air infiltration @ 6.25 psf. static wind load.
- ‰ **WATER INFILTRATION:** In accordance with ASTM E 331:
 - Specimen had no observable water leakage @ 16.5 psf. (3.17" H₂O) static wind load for 15 minutes.

CONCLUSION:

Following testing, all specimens were disassembled. No failures were observed in the panels, fastenings or anchorages except as previously noted in specimens deliberately tested to failure. The product complies with SFBC sections 2309 and 2315.

State of Florida Product Approval FL2915

**METRO-DADE COUNTY FLORIDA PRODUCT CONTROL
NOTICE OF ACCEPTANCE:**

Acceptance NOA No.: 11-0216.01

Expires: 03/05/2016

NOA Certificate attached.



MIAMI-DADE COUNTY
BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)
BOARD AND CODE ADMINISTRATION DIVISION

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

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/building

CPI Daylighting, Inc.
28662 North Ballard Drive
Lake Forest, IL 60045

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 BNC-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. BNC 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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Translucent Polycarbonate Panel Skylight System

APPROVAL DOCUMENT: Drawing No. DC16SCLV-1 sheet 1 of 1 dated 05/19/97, DC16SCLV-2 sheet 1 of 1 dated 06/16/97, and DC16SC-2 sheet 1 of 1 dated 03/04/11, titled "CPI Pentawall", prepared, signed and sealed by Alexis Spyrou, P.E., on April 19, 2011, 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, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

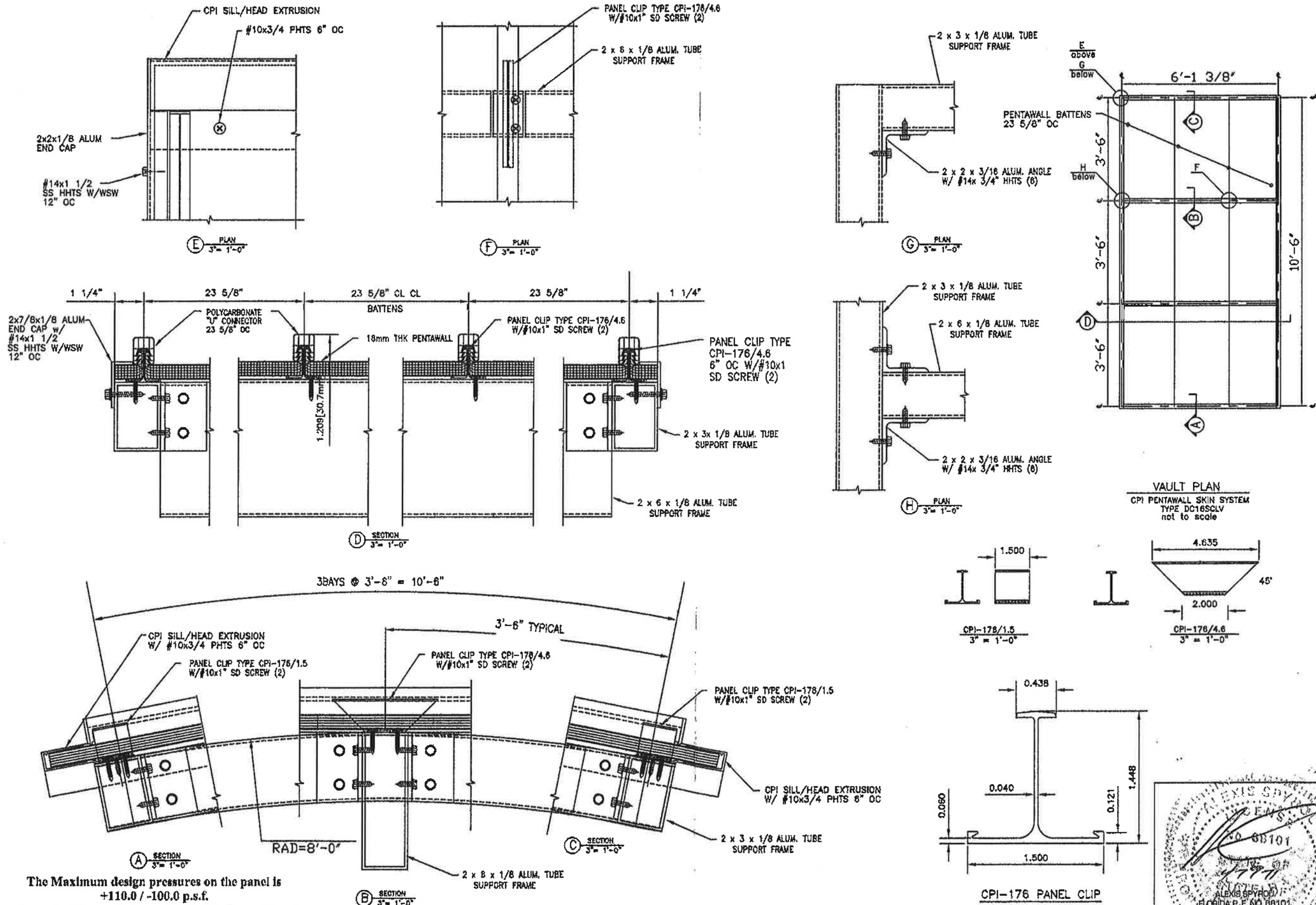
INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 05-1207.01 and consists of this page 1, evidence submitted pages E-1 & E-2 as well as approval document mentioned above.

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

H.M.
 05/19/2011

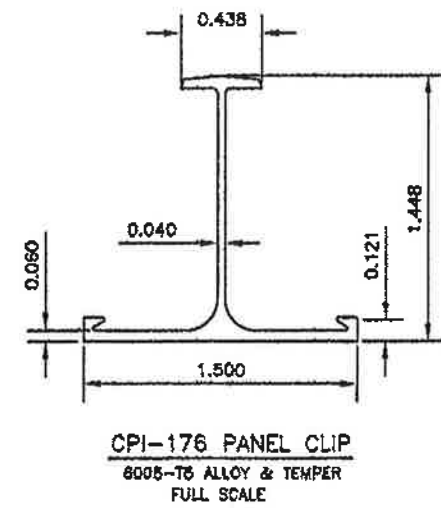
NOA No. 11-0216.01
Expiration Date: 03/05/2016
Approval Date:
Page 1



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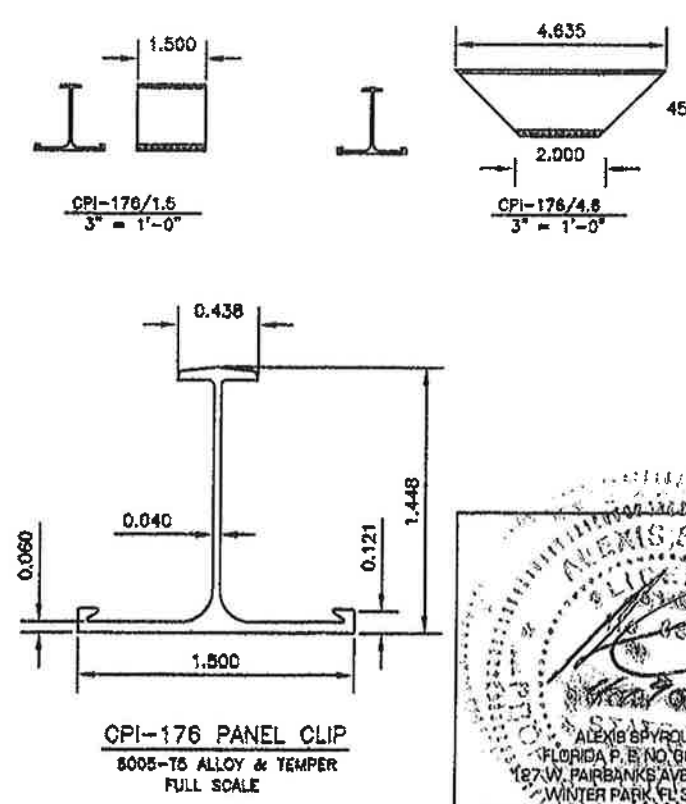
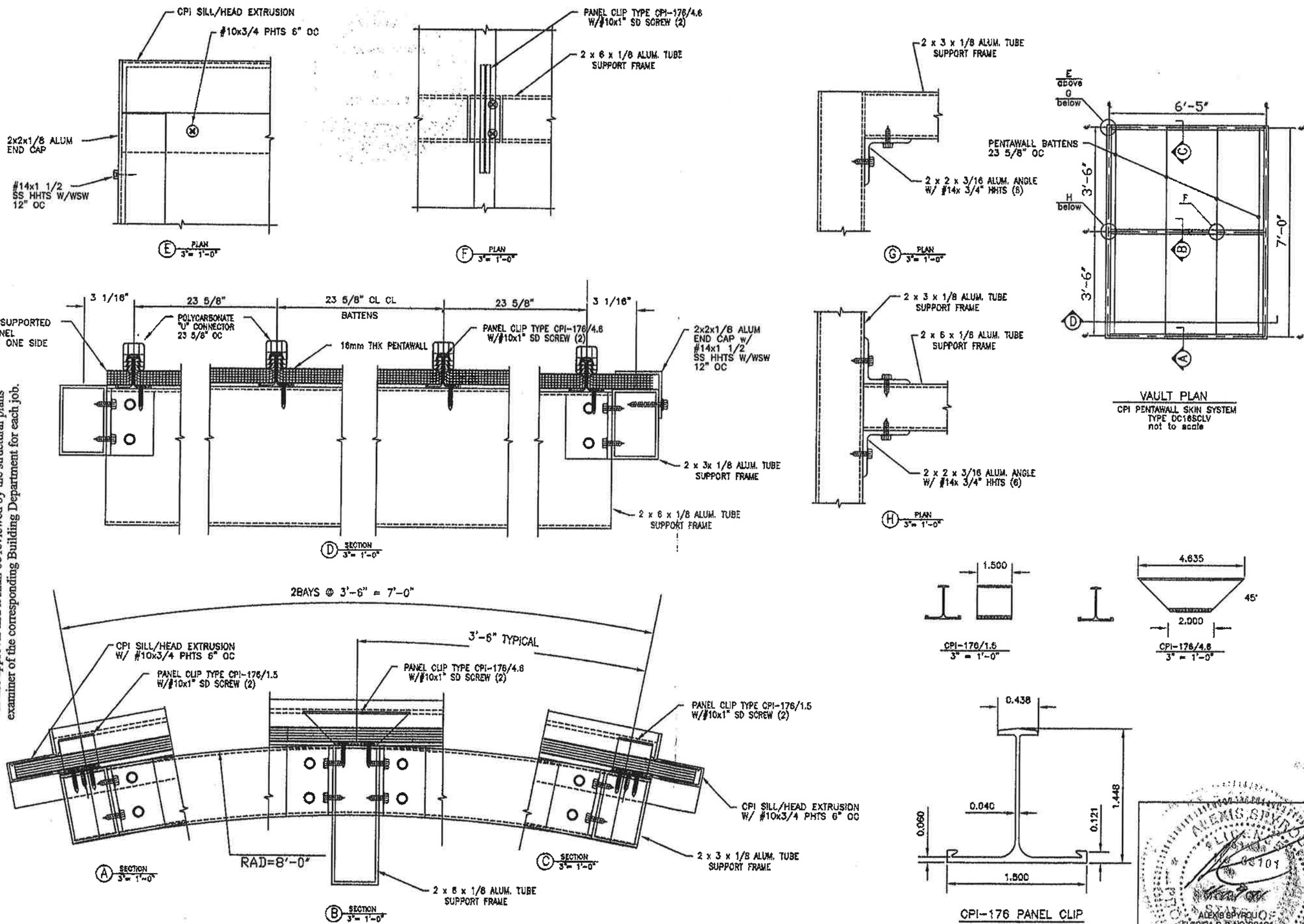
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| | |
| 28662 N. BALLARD DR. LAKE FOREST, IL 60045 (847) 816-1060 • FAX (847) 816-0425 | |
| PROJECT: CPI PENTAWALL RAFTER PURLIN SKIN SYSTEM TYPE DC16SCLV VAULT SAMPLE FOR TESTING PER | ARCHITECT: PA 201-94, PA 202-94, PA 203-94 ERECTOR: |
| CONTRACT NO. | REV. |
| DRAWN BY DER | DATE 5/19/87 |
| CHECKED BY | DATE |
| DRAWING NO. DC16SCLV-1 | SHEET NO. |
| 1 OF 1 | |

The Maximum design pressures on the panel is +110.0 / -100.0 p.s.f.
 The structural adequacy of the supporting sub structure is not part of this approval and it shall be reviewed by the structural plans examiner of the corresponding Building Department for each job.



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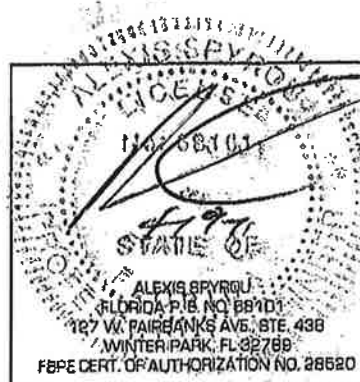
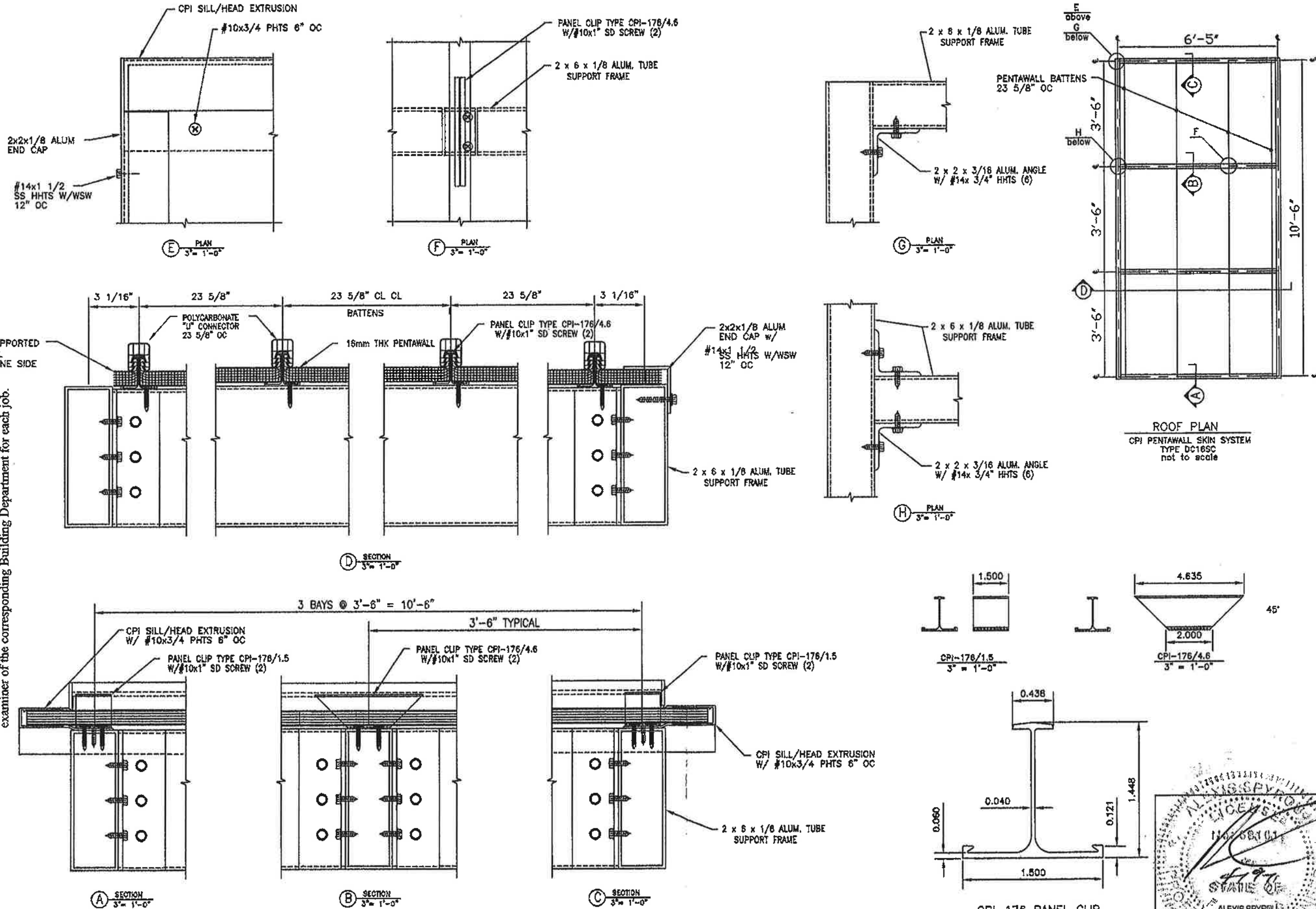
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| 28562 N. BALLARD DR LAKE FOREST IL 60045 (847) 816-1060 * FAX (847) 816-0425 | |
| PROJECT: | CPI PENTAWALL PURJUN SKIN SYSTEM |
| SAMPLE FOR TESTING PER | TYPE DC16SC LV VAULT |
| ARCHITECT: | PA 201-94, PA 202-94, PA 203-94 |
| ERECTOR: | |
| CONTRACT NO. | REV. |
| DRAWN BY | DER |
| DATE | 8/18/97 |
| CHECKED BY | |
| DATE | |
| DRAWING NO. | DC16SCLV-2 |
| SHEET NO. | |
| 1 OF 1 | |

The Maximum design pressures on the panel is

+110.0 / -100.0 p.s.f.

The structural adequacy of the supporting sub structure is not part of this approval and it shall be reviewed by the structural plans examiner of the corresponding Building Department for each job.



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| CPI INTERNATIONAL 28662 N. BALLARD DR. LAKE FOREST IL 60045 (847) 816-1060 * FAX (847) 816-0425 | |
| PROJECT: | CPI PENTAWALL PURLIN SKIN SYSTEM |
| SAMPLE FOR TESTING PER: | TYPE DC16SC |
| PA 201-94, PA 202-94, PA 203-94 | |
| ARCHITECT: | |
| ERECTOR: | |
| CONTRACT NO. | REV. |
| DRAWN BY DER | |
| DATE 3/04/11 | |
| CHECKED BY | |
| DATE | |
| DRAWING NO. DC16SC-2 | |
| SHEET NO. 1 OF 1 | |



Florida Product Approval – CPI DAYLIGHTING, INC.
www.floridabuilding.org

[Product Approval Menu](#) > [Product or Application Search](#) > **Application List**

| Search Criteria | | | | Refine Search |
|-------------------------------|----------------------|---|------------------------------|-------------------------------|
| Code Version | 2004 | Pentaglas 16mm | FL#6475 | |
| Search Results - Applications | | | | |
| FL# | Type | Manufacturer | Validated By | Status |
| FL6475 | New | CPI Daylighting Inc. Category: Sky Lights Subcategory: Skylight | | Approved |

| Search Criteria | | | | Refine Search |
|-------------------------------|----------------------|---|--|-------------------------------|
| Code Version | 2004 | Quadwall | FL #6599 | |
| Search Results - Applications | | | | |
| FL# | Type | Manufacturer | Validated By | Status |
| FL6599 | New | CPI Daylighting Inc. Category: Structural Components Subcategory: Products Introduced as a Result of New Technology | Wesley Randolph Godwin (417) 997-2667 | Approved |

| Search Criteria | | | | Refine Search |
|-------------------------------|----------------------|---|--|-------------------------------|
| Code Version | 2004 | Controlite, Pentaglas 12 | FL #6600 | |
| Search Results - Applications | | | | |
| FL# | Type | Manufacturer | Validated By | Status |
| FL6600 | New | CPI Daylighting Inc. Category: Structural Components Subcategory: Products Introduced as a Result of New Technology | Wesley Randolph Godwin (417) 997-2667 | Approved |