CPI WILL MAKE ALL FURTHER DESIGN DECISIONS BASED UPON THE INFORMATION PROVIDED ON THIS FORM. THIS INCLUDES, BUT IS NOT LIMITED TO, THE USE OF A 2.75" OR 4" QUADWALL SYSTEM, ADDITIONAL STRENGTHENING FOR SPAN SIZES, CHOICE OF RAFTER SIZES, AND BAY SIZING. ALL ELEMENTS WILL BE SYMMETRICAL WITHIN THE UNIT AND CPI STANDARD VALUES WILL BE USED THROUGHOUT.

ALL EXTRUDED ALUMINUM FRAMING MEMBERS SHALL BE OF A 6063-T6 OR 6005-T5 ALLOY AND TEMPER.

ALL FASTENERS SHALL BE OF A NON-CORRODING MATERIAL.

CURB FASTENERS WILL BE DETERMINED BY CURB CONSTRUCTION (WOOD, STEEL)

PANEL SECTIONS ARE TYPICALLY PRE-ASSEMBLED IN MODULES OF 6'(NOMINAL) CL TO CL, UNLESS CPI CALCULATIONS REQUIRE AN ALTERNATE SPACING. MAKE UP BAYS ARE STANDARD AT THE ENDS OF ALL UNITS AND WILL BE LESS THAN THE TYPICAL BAY SIZE.

ONE (1) PART SILICONE SEALANT, DOW CORNING SERIES #999 TO BE USED WHERE SHOWN.

MINIMUM CURB THICKNESS MUST BE 4". THE SUPPORT CURBS SHALL BE DESIGNED AND CONSTRUCTED BY OTHERS TO RESIST LOADS IMPOSED BY THE SKYLIGHT. SEE CURB LOAD INFORMATION ON FOLLOWING SHEETS.

UNITS ARE SHIPPED WITH PANELIZED GLAZING, FRAMES KNOCKED DOWN. SHOP DRAWINGS FOR INSTALLATION SHIP WITH UNITS.

TEST REPORT CERTIFICATION:

CPI CERTIFIES THAT THE GLAZING PANELS MEET THE FOLLOWING STANDARDS.

TEST DESCRIPTION	TEST STANDARD	RESULTS	CPI REPORT #
EVALUATION REPORT	IBC	IBC EVALUATION REPORT #4798	111
CODE CLASSIFICATION	IBC CHAPTER 26	APPROVED LIGHT TRANSMITTING PLASTICS, CC1 RATING	
FLAMABILITY			
SELF IGNITION	ASTM 1929-3	1058F	211
SMOKE DENSITY OF PLASTIC	ASTM D2843	54%	210
BURN EXTENT	ASTM D635	CC1 RATING - LESS THAN 1.0" BURN EXTENT	212A, 212B
INTERIOR FLAME SPREAD	ASTM E84	CLASS A FLAME SPREAD & SMOKE DEVELOPMENT	
& SMOKE DEVELOPMENT	ASIM E84	RATING - FLAME SPREAD INDEX LESS THAN 25	213
WEATHERING			
COLOR CHANGE	ASTM D2244	NO MORE THAN 4 UNITS DELTA E AFTER 60 MONTHS	411, 412
WEATHERING	ASTM D4364 & E903	TOTAL SOLAR TRANSMITTANCE, 60 MONTHS	410
LIGHT TRANSMISSION	ASTM D1003	SHALL NOT DECREASE MORE THAN 6% AFTER 10YRS	413
HEAT EXPOSURE	300F - 25MIN	HEAT EXPOSURE EVALUATION STANDARD PASSED	411
WATER PENETRATION	ASTM E331	NO PENETRATION OF H CONNECTORS AT 6.24PSF	323
FIELD TEST WATER PENETRATION	AAMA 501.2	NO PENETRATION	
IMPACT RESISTANCE	SPI METHOD B	220 FT-LBS	513A, 513B
LARGE MISSILE CANNON TEST	ASTM E1886/E1996	WITHSTANDS LARGE MISSILE IMPACT OF 350 FT-LBS	512B
OSHA - POINT LOAD	29 CFR 1910.23	300 LB POINT LOAD WITH NO DAMAGE	515
OSHA - FALL / WALK THROUGH	ASTM E695-03	500 FT-LBS	512B
U FACTOR	PER NFRC 100	0.23, CENTER OF GLASS, QUADWALL	310B

ESR-1253

ICC-ES Evaluation Report

www.icc-es.org | (800) 423-6587 | (562) 699-0543 A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS Section: 08 84 00—Plastic Glazing

REPORT HOLDER:

CPI DAYLIGHTING, INC. 28662 NORTH BALLARD DRIVE LAKE FOREST, ILLINOIS 60045 (847) 816-1060 www.cpidaylighting.com

EVALUATION SUBJECT

QUADWALL, UNIQUAD, PENTAGLAS, DUALWALL AND **U-LITE PANELS**

1.0 EVALUATION SCOPE

- Compliance with the following codes: ■ 2012, 2009 and 2006 International Building Code®
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

 The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Property evaluated: Light-transmitting plastics

2.0 USES

The Quadwall, UniQuad, Pentaglas, Dualwall and U-Lite panels described in this report comply with the requirements for light-transmitting plastics in 2012, 2009 and 2006 IBC Section 2606.4. End use of the panels is outside the scope of this report, thereby requiring that compliance with the IBC requirements applicable to the end use (such as, but not limited to, structural and durability performance) be demonstrated to the code

3.0 DESCRIPTION

The Quadwall, UniQuad, Pentaglas, Dualwall and U-Lite translucent polycarbonate panels recognized in this report are light-transmitting plastics complying with IBC Section 2606.4, and have a CC1 plastic combustibility classification. The panels are available in up to a 45.3-foot (13 800 mm) length and in various widths, 1 for size and configuration details. As shown in Table 1 and Figure 1, the 8- and 10-millimeter-thick Quadwall, UniQuad, and Pentaglas panels are identical panels, except for the product name.

Use of the Quadwall, UniQuad, Pentaglas, Dualwall and U-Lite panels recognized in this report is limited to applications permitted by the IBC for light-transmitting plastics. The manufacturer's published installation instructions and this report must be strictly adhered to.

5.0 CONDITIONS OF USE

The Quadwall, UniQuad, Pentaglas, Dualwall and U-Lite panels described in this report comply with, or are suitable alternatives to what is specified in, those codes

- 5.1 The panels are manufactured, installed and identified as called for in this report, the IBC and the manufacturer's published installation instructions. In the event of a conflict between this report and the manufacturer's published installation instructions,
- 5.2 End use of the panels requires justification of compliance with appropriate code requirements, including installation, structural, impact and durability

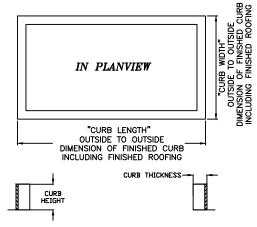
6.0 EVIDENCE SUBMITTED

6.1 Reports of tests in accordance with ASTM D1929, ASTM D2843, ASTM D635, and ASTM E84.

6.2 Quality documentation.

The panels are identified with a label bearing the manufacturer's name (CPI Daylighting), the product name (Quadwall, UniQuad, Pentaglas, Dualwall or U-Lite), the CC1 plastic classification and the evaluation report number (ESR-1253).

CURB TERMINOLOGY:



THE INFORMATION CONTAINED ON THESE PAGES IS THE SOLE PROPERTY OF CPI DAYLIGHTING, INC. AND CAN NOT BE COPIED OR USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF CPI DAYLIGHTING, INC.

CPI DAYLIGHTING, INC. IS ENGAGED IN CONTINUING RESEARCH TO IMPROVE ITS PRODUCTS. THEREFORE, THE RIGHT IS RESERVED TO MODIFY OR CHANGE MATERIAL AND DETAILS FOUND IN THIS MANUAL. THIS IS INFORMATIVE IMFORMATION AND DOFS NOT CONSTITUTE WARRANTIES, EXPRESSED OR IMPLIED.

SKYLIGHTS - QUADWALL - VAULT, RIDGE, HIPPED RIDGE, PYRAMII							
- DATA ENTRY FORM -							
SKYLIGHT SHAPE:	(2) SKYLIGHT ENDS (FOR	VAULT AND RIDGE ONLY):					
☐ VAULT (SELECT END CONDITIONS)	END 1	END 2					
☐ RIDGE (SELECT END CONDITIONS)	☐ CPI GABLE	CPI GABLE					
☐ HIPPED RIDGE	■ EXISTING WALL	☐ EXISTING WALL					
		_					

☐ VAULT (SELECT END CONDITION ☐ RIDGE (SELECT END CONDITION ☐ HIPPED RIDGE ☐ PYRAMID	NS)	BLE WALL	END 2 CPI GAB EXISTING	LE ,			
CURB MATERIAL: STEEL — 12GA STEEL CURB (REQUIRED FOR RIDGES & PYRAMIDS OVER 14' WIDE)	CURB LEN	(4) CURB DIMENSIONS: CURB LENGTH:(EXACT OUT-TO-OUT TO NEAR CURB WIDTH:(EXACT OUT-TO-OUT TO NEAR MAXIMUM CURB WIDTHS					
		LOW-RISE VAULT	HALF-ROUND VAULT	RIDGE	HIPPED RIDGE/ PYRAMID		
WOOD -	STEEL CURB (12GA)	18' MAX	14' MAX	14' MAX	14' MAX		
MINIMUM OF (2) 2" X 6" LUMBER WILL BE REQUIRED.	STEEL CURB (1/4")	18' MAX	14' MAX	18' MAX	16' MAX		
(DOUGLAS FIR, G = 0.49 MIN)	WOOD CURB	18' MAX	14' MAX	12' MAX	12' MAX		

PYRAMIDS OVER 14 WIDE)		LOW-RISE VAULT	HALF-ROUND VAULT	RIDGE	HIPPED RIDGE/ PYRAMID
WOOD -	STEEL CURB (12GA)	18' MAX		14' MAX	14' MAX
☐ MINIMUM OF (2) 2" X 6" LUMBER WILL BE REQUIRED. (DOUGLAS FIR, G = 0.49 MIN)	STEEL CURB (1/4")	18' MAX	14' MAX	18' MAX	16' MAX
(DOUGLAS TIN, 6 - 0.45 MIN)	WOOD CURB	18' MAX	14' MAX	12' MAX	12' MAX
5) NOMINAL HEIGHT: (FROM TOP OF CURB TO BOTTO					LOW PICE VALUETS
USE NON-STANDARD PITCH:: (MINIMUM 4:12 PITCH FOR RIDGES/PYRAMIDS, 13	12 OR	нт 9	(IN FEET & INC		RB TO
6 EXTERIOR & INTERIOR GLAZING: EXTERIOR GLAZING COLOR (10MM) CLEAR GREEN ICE WHITE BRONZE REFLECTIVE GRAY	□ Cl □ IC	RIOR GLA LEAR MAT E WHITE HITE MAT	MATTE	DR (8MM)	
7) ALUMINUM FINISH & COLOR:			1		
STANDARD CPI CRF (2603) PREMIUM CPI CRF (2604) PREMIUM+ CPI CRF (2605)/STD. 70	- 001.05	COLOR NAME			
☐ ANODIZED ————————————————————————————————————			CLE.	AR 204–R1 AR 215–R1 K BRONZE ANO–.	303
QUANTITY OF IDENTICAL UNITS: (PLEASE USE SEPARATE SUBMITTAL FORMS FOR VARYING)	S SKYLIGHT SH	HAPES AND	SIZES.)		

	(PLEASE	USE	SEPARATE	SUBMITTAL	FORMS	FOR	VARYING	SKYLIGHT	SHAPES	AND	SIZES.)		
ر 						CF	PI QUO	ΓΕ #:				ITEM #:	

9)	PROJECT NAME:		
AUTHORIZATION TO PROCEED:	COMPANY:		
THIS PAGE DEFINES ALL SPECIFICATIONS FOR THIS			
SKYLIGHT ORDER — I HAVE NO FURTHER SPECIFICATIONS OR	SIGNATURE:		
REQUIREMENTS.	AUTHORIZED SIGN	VER:(PLEASE PRINT)	
	DATE:		
NOTE: COMPLETE JOE	NEO SHEET REC	DUIRED BEFORE RELEASE TO	FABRICATION.

MAXIMUM DIRECT 2 FAB LOADS ARE AS FOLLOWS: 40PSF WIND-UPLIFT 25PSF WIND-DOWNWARD

30PSF SNOW/LIVE

DIRECT ZFAB SYSTEMS WERE DESIGNED BASED ON ASD LOAD COMBINATIONS OF THE MAXIMUM LOADS ACCORDING TO ASCE7.

SNOW/LIVE LOAD MUST INCLUDE A COMBINATION OF BALANCED SNOW LOAD AND ANY ASSOCIATED DRIFT LOAD.

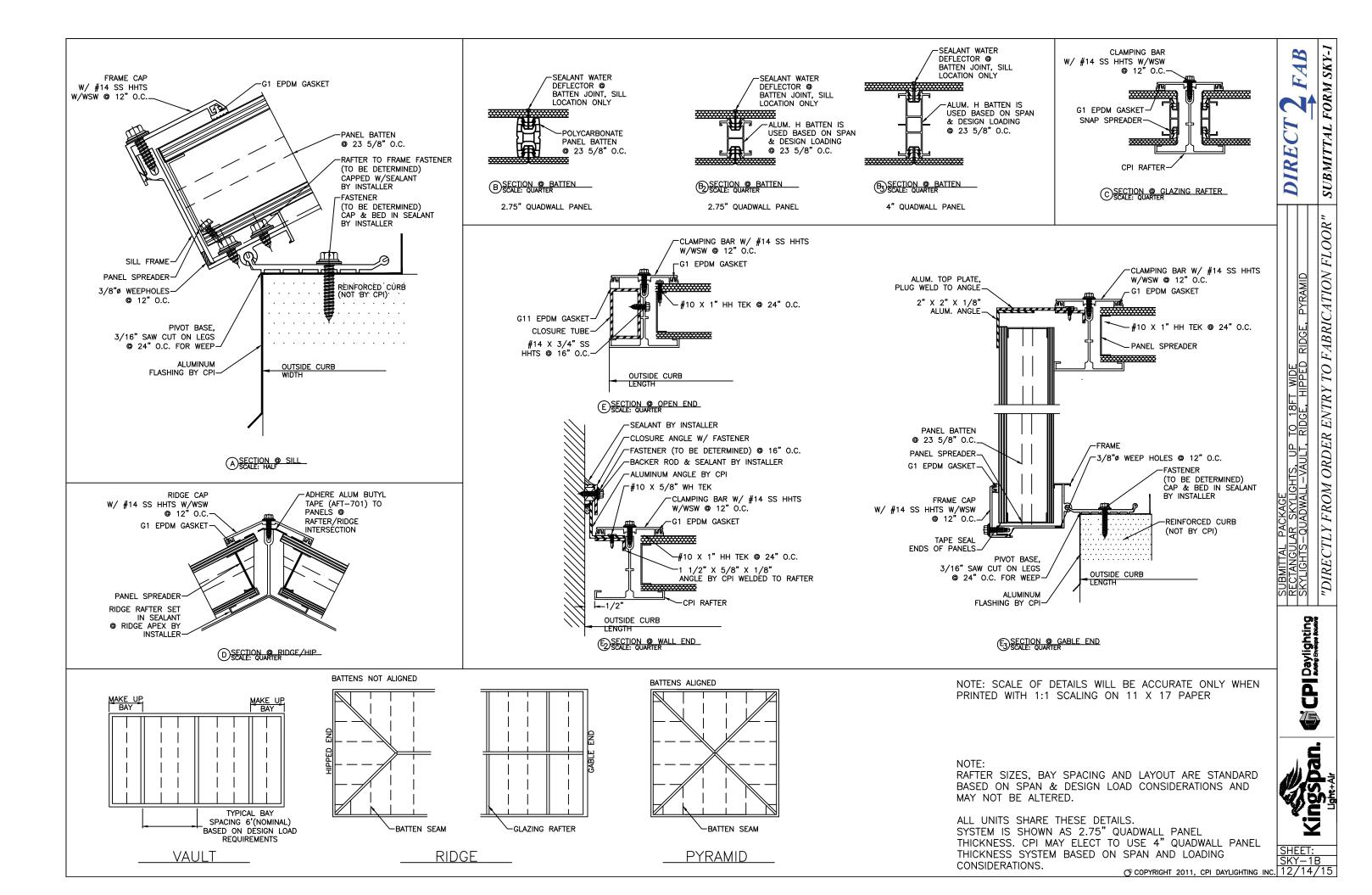
 \odot COPYRIGHT 2011, CPI DAYLIGHTING INC. 12/14/15



U

T

U.S. PATENT #'S: 7,281,353,B2-6,164,024-5,437,129-5,348,790-D500,370-5,895,701-D490,544-7,441,379-7,546,708-7,765,760-7,926,236 AND PATENTS PENDING



CPICRF™ Paint & Anodized Finishes

High Performance Architectural Coatings

CPICRF is a Corrosion Resistant Finish coating that includes Kynar®, Trinar®, or Hylar® fluoropolymer* and TGIC Polyester resins.

Standard Paint Finish Colors

CPICRF | TGIC Polyester resin powder coating (AAMA 2603) 1 or 5-year warranty

This economical and eco-friendly coating is available in a wide range of standard paint colors, and does not emit VOC gases into the atmosphere. CPICRF meets AAMA 2603 and comes with a 1-year standard warranty, or an optional 5-year extended warranty.







Med Gloss Black Cat

WS Clay

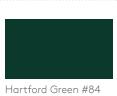
WS Bronze CPI-S5

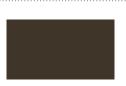
WS White

CPI-S4

This eco-friendly coating is available in a wide range of premium paint colors, and does not emit VOC gases into the atmosphere. CPICRF - Premium meets AAMA 2604 and comes with a 10-year standard warranty.









Med Gloss Black Cat

WS Clay





WS White







CPI-P9

CPI-P6

Bone White

CPI-P10



Eggshell LT CPI-P11



Patina Green CPI-P12

CPI-P8

This 2-coat Kynar finish is available in a variety of premium paint colors. CPICRF - Premium Plus meets AAMA 2605 and comes with a 10-year standard warranty, or an optional 20-year extended warranty.



Anodized Finishes

CPI-PP11

CPI Anodized Finishes | Class II (204), Class I (215), and color 1 or 5-year warranty

CPI-PP13

CPI Daylighting offers anodized finishes - Clear Anodized and Dark Bronze Anodized. The anodized finish comes with a 1-year standard warranty with an option for a 5-year extended warranty.

The colors shown are not exact and may vary slightly from the actual colors - Physical samples on aluminum substrates are available for final color selection. For exact colors, please contact us at 1.800.759.6985 to order color samples. Slight color variation can be expected in production. Color options are also subject to change. Please contact CPI Daylighting to confirm availability.

*Kynar® is a registered trademark of Arkema - Trinar® is a registered trademark of AkzoNobel - Hylar® is a registered trademark of Solvay



