

KALWALL®

high performance translucent building systems



photo: Alex Upton

KALWALL® 175CW

Overview of Kalwall 175CW TIGU

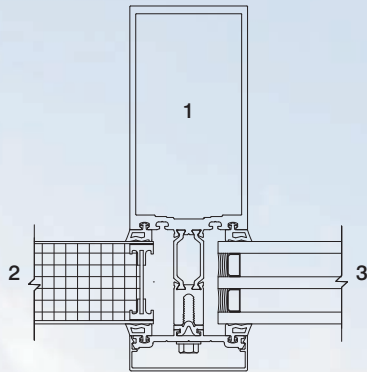
Curtain Wall Integration Options and Features

Performance + Technical Summaries | Design Guidance

[KALWALL.COM](https://www.kalwall.com)

KALWALL® 175CW

Presenting KALWALL® 175CW, the first in a series of new translucent insulated glazing units (TIGUs) for façade applications. These TIGUs are designed to be compatible with most curtain wall systems available on the market, allowing you to mix and match Kalwall with other infill glazings and opaque claddings, offering limitless design possibilities - without sacrificing performance. KALWALL 175CW TIGUs are nominally 1-3/4" and fully thermally broken. Daylight your building with Kalwall installed in the curtain wall system of your choosing and enjoy unparalleled versatility, durability and performance that outperforms conventional vision glazing in almost every way.



KALWALL 175CW: plan detail

- 1 curtain wall system by others
- 2 KALWALL 175CW TIGU
- 3 triple-pane IGU by others



photo: Klaas Verdu

Industrial Design Center at Howest | Kortrijk, Belgium

KALWALL®

KALWALL.COM

High-Performance Glazing Like No Other

KALWALL® 175CW was specifically developed for seamless compatibility with third-party curtain wall systems. While all Kalwall panels offer best-in-industry thermal performance and solar heat gain control, KALWALL 175CW offers high-performance glazing unlike anything in the industry. It allows you to:

- + Create perfectly bright, comfortable spaces without sacrificing daylight autonomy.
- + Mix and match KALWALL 175CW with double or triple-glazed units, spandrels and other claddings for the best of both worlds. Plug and play wherever you need to daylight with confidence.
- + TIGUs offer privacy/modesty and are bird-friendly.
- + Eliminate the need for secondary control systems.
- + Low maintenance panels are graffiti and vandal resistant.

Remove the guesswork. Our 3D simulation software uses daylight modeling to customize a solution for your unique needs. You'll receive the museum-quality daylighting™ you expect—whether your project is a retrofit or you're thinking ahead to a future-fit solution.



photos: James Steinkamp

Fermilab SBN Near & Far Detectors | Batavia, IL | Holabird & Root

Let's Get Technical

KALWALL 175CW TIGUs are lightweight (less than 1½ lbs/ft²), strong and highly impact resistant ensuring you receive the exceptional quality for which Kalwall is renowned.

- + TIGUs for façade applications are available up to 5 x 15 feet.
- + Three U-factors are available: 0.28, 0.16 and 0.14 options.
- + Standard grid patterns include Shoji-reverse and Ladder. Shoji, VertiKal™, Tuckerman and other orthogonal grid patterns are also available.
- + NFRC 100, 201 and 202 values available for all Crystal-White exterior/interior facesheet combinations and all four exterior cloud series Kal-tints™ (Cumulus, Cirrus, Nimbus, Stratus) with Crystal-White interior faces.
- + Up to ten-year warranty on abnormal color change, fiberbloom and KWS coating.

Third-party curtain wall integration. High-performance glazing. The ability to mix and match translucency and vision glazing within the same framing system for the perfect balance of privacy and vision wherever you need it. Promoting human-centered design has never been easier. KALWALL 175CW, your versatile daylighting solution. Always a perfect fit.

For more information on life safety and code compliance, visit Kalwall.com.



Exterior FRP Face Sheet Anatomy

- 1 Kalwall UV-blocking Weatherable Surface (KWS)
- 2 Super-Weathering UV-stable thermoset polymer matrix
- 3 Encapsulated glass veil erosion barrier
- 4 Super-Weathering UV-stable thermoset polymer matrix
- 5 Glass fiber reinforcing (including high impact + specialty options)
- 6 Super-Weathering UV-stable thermoset polymer matrix

NFRC Performance Data: 1-3/4" (44mm) Panel

FRP Face Sheet Combinations		Visible Light Transmittance % by NFRC 202			Solar Heat Gain Coefficient @ 0° by NFRC 201		
Exterior FRP	Interior FRP	0.28 U	0.16 U	0.14 U	0.28 U	0.16 U	0.14 U
Crystal	White	21%	13%	8%	0.30	0.19	0.12
White	White	15%	12%	6%	0.20	0.16	0.10
Crystal	Crystal	29%	16%	15%	0.34	0.23	0.22
White	Crystal	20%	14%	8%	0.24	0.17	0.10
Cumulus	Crystal	32%	21%	11%	0.35	0.24	0.14
Cumulus	White	22%	15%	8%	0.31	0.15	0.13
Cirrus	Crystal	21%	13%	7%	0.29	0.19	0.12
Cirrus	White	14%	9%	5%	0.25	0.18	0.13
Nimbus	Crystal	16%	9%	5%	0.26	0.16	0.12
Nimbus	White	10%	7%	4%	0.24	0.16	0.11
Stratus	Crystal	7%	4%	2%	0.17	0.14	0.10
Stratus	White	4%	3%	2%	0.18	0.13	0.09

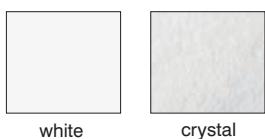
Visible light transmittance (VLT%) by NFRC 202 as noted. VLT percentages over 30% are not recommended for most Kalwall applications.

Panel U-factors are center of glazing 'cell' by NFRC 100. Project-specific information available by request and/or through simulation.

Shading Coefficient (SC) is equal to 1.15 times the Solar Heat Gain Coefficient (SHGC by NFRC 201).

U-Factor SI conversion: 1.0 W/m²K = 0.176 Btu/hr/ft²°F

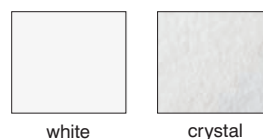
Standard Translucent FRP Colors: Exterior Face Sheet



white

crystal

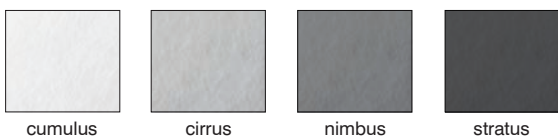
FRP Translucent Colors: Interior Face Sheets



white

crystal

Optional Translucent FRP Colors: Exterior Face Sheet



cumulus

cirrus

nimbus

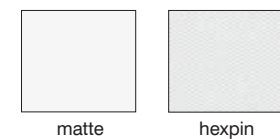
stratus

Standard Interior Finish



semi-gloss

Optional Interior Finishes



matte

hexpin



Kalwall Corporation is continually engaged in research to improve our products. Therefore, the material in this brochure is descriptive in nature and does not constitute a warranty, neither expressed nor implied. Please contact us for a copy of the warranty that is given with the sale of our products. Kalwall is a registered trademark. VertiKal and Museum-Quality Daylighting are trademarks of the Kalwall Corporation. ©2023 Kalwall Corporation

KALWALL®

1111 CANDIA ROAD, MANCHESTER, NH 03105 USA | 800 258 9777 | + 1 603 627 3861

