



DOW

®

DOWSIL™ PANELFIX SYSTEM

DOWSIL™ PANELFIX SYSTEM

High performance bonding system designed for façade cladding

- Very good adhesion properties
- Easy application
- Highest quality standards of application are supported through the Dow Quality Bond™ program



ICE Krakow, Image Courtesy of G Ziemianski

DOWSIL™ PANELFIX SYSTEM

- **DOWSIL™ 896 PanelFix**
Silicone adhesive tailor made for panel bonding
- **DOWSIL™ PanelFix Tape**
Prefixing tape for easier on-site application
- **DOWSIL™ Cleaner and Primer**



DOWSIL™ 896 PANELFIX

- 1-part silicone adhesive
- Immediate initial strength enables high green strength
- Low squeeze-out
- High compression resistance
- Primerless adhesion to a range of mineral substrates and metal
- Temperature stability over a wide range: -50°C to +150°C



DOWSIL™ PANELFIX TAPE

- Keeps the panel in place during the first 24 hours
- Good compressibility enables very strong initial tack, which complements the instant green strength of DOWSIL™ 896 PanelFix
- Ideal for on-site applications



DOWSIL™ CLEANERS AND PRIMERS

- DOWSIL™ R-40 Universal Cleaner and DOWSIL™ R-41 Cleaner Plus
- DOWSIL™ Construction Primer P
- DOWSIL™ 1200 OS Primer
- DOWSIL™ 1200 OS Primer, UV Traceable

Cleaners and primers should be applied according to our Panel Reference List for the DOWSIL™ PanelFix System. For panel substrates not pre-tested please contact a Dow representative.



DOWSIL™ PANELFIX SYSTEM – ON-SITE

Description

The classic method for metallic sub frames fixed to a wall

- Adhesive and tape are placed on the subframe on-site
- The panel is finally positioned and fixed on the subframe, directly on-site

Benefits

- Easy method of panel fixation
- Cost effective compared to mechanical fixation
- Enables the fixation of thinner panels, as no panel intrusion is required



Video

<https://youtu.be/taNpleXswEk>

DOWSIL™ PANELFIX SYSTEM – OFF-SITE

Description

- In-factory bonding process
- Hooks are bonded onto the panel in the factory
- The panel is then hooked onto the fixed sub-frame on site

Benefits

- No weather constraints
- Controlled quality application
 - Temperature, humidity, clean application conditions
- No tape required
- Ideal for the installation of lightweight panels
- No mechanical fixation required
- Extended warranty available for Quality Bond™ in factory application for Quality Bond™ members

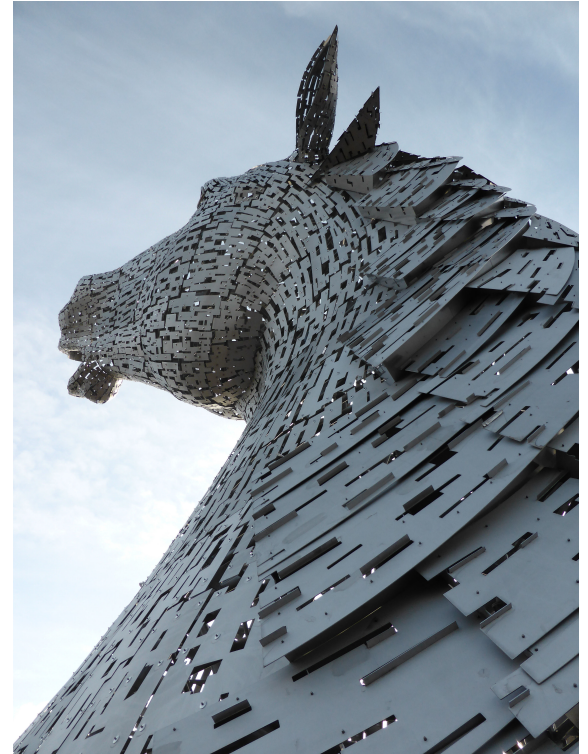


BENEFITS TO THE ARCHITECT

- Enables invisible panel attachment for improved aesthetics
- Allows architectural design freedom
- Safe and controlled bonding system



years of proven performance
in structural glazing



The Kelpies, Image courtesy of SH Structures & The Helix Trust



BENEFITS FOR PANEL MANUFACTURERS

- Panel bonding with no mechanical fixation, improving aesthetics
- Project specific technical support
 - Substrate adhesion, sealant bite calculations, etc.

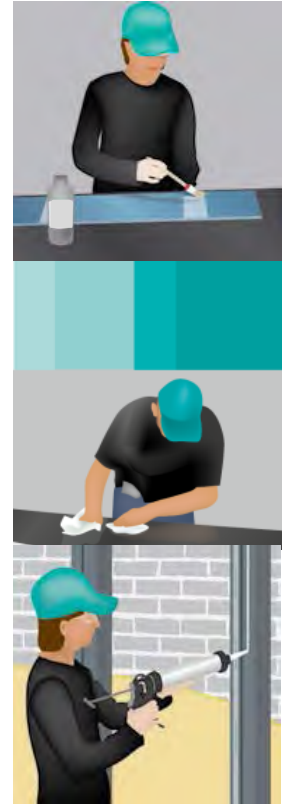


**years of proven performance
in structural glazing**



BENEFITS FOR THE APPLICATOR

- DOWSIL™ PanelFix system can be applied in factory and on-site
- Saves time in application
 - Easy to use and extrude
 - Excellent compression resistance, panels may be adjusted after first tack
- Cost effective solution that saves time
 - Easy surface preparation: no abrasion, primerless adhesion on selected substrates
- Improved dead load support due to instant green strength of the DOWSIL™ 896 PanelFix
- UV, temperature and fire resistant
- Long-term durability and adhesion performance



DOWSIL™ 896 PANELFIX EVALUATION

Materials	DOWSIL™ 896 PanelFix	Competitor 1	Competitor 2	Competitor 3
Technology	1-part silicone	1-part PU	Hybrid polymer	Hybrid polymer
Green strength	1500 to 2000 Pa	< 300 Pa	1500 Pa	< 300 Pa
Mvt capability (according to TDS)	± 12.5%	± 25%	± 20%	± 25%
Mvt capability (measured)	± 12.5%	± 12.5%	± 12.5%	± 12.5%
Elastic recovery	> 90%	80%	> 75%	-
Shelf life	12 months	9 months	12 months	12 months
Temperature resistance	-50°C to 150°C	-40°C to +90°C	-40°C to +90°C	-40°C to +90°C

These are typical properties and not to be construed as specifications.



DOWSIL™ PANELFIX SYSTEM

- Achieve design freedom and maximize aesthetics
- High durability and fast handling
- Allows selection of lower weight, less expensive cladding options
- Dead load resistance
- Fire resistance
- Assessed by the BBA, Agrément certificate No. 16/5306
- Meets the requirements of ETA 17/0689



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Experienced and **extensive technical support** –
Quality Bond™ and project warranty program –
Strong collaboration with panel manufacturers

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