TECHNICAL DATA SHEET

Product Overview

- The CENTRIA International DSR-J panels is a patented design, built for exterior wall applications, combining performance, quality and superior aesthetics.

- The panels consist of two metal layers permanently hot-pressed onto a fire-resistant mineral wool core.

- CENTRIA International DSR-J can be installed both horizontally and vertically, with customization available for widths, lengths, thicknesses, and joint requirements.

- Certified to meet international standards for fire resistant, insulation, waterproofing, and decorative features.

Panels Material

Metallic-Coated Steel Face Sheet	• Zinc-coated (galvanised) steel sheet • Face sheet thickness: 0.6 - 1.0 mm, • Smooth/ embossed surface
Aluminum Face Sheet	• Face sheet thickness 0.8 - 1.0 mm • Smooth/ embossed surface
Exposed Coil-Coated Finish (Choose One)	• Fluoropolymer Two-Coat System • Fluoropolymer Two-Coat Thick Film System • Fluoropolymer Three-Coat High-Build System • Fluoropolymer Two-Coat Mica System • Fluoropolymer Three-Coat Metallic System • Fluoropolymer Two-Coat Corrosion and Abrasion Resistant System • Urethane Two-Coat Corrosion and Abrasion Resistant System • Fluoropolymer Three Coat System
Metallic-coated Steel Liner Sheet	• Zinc-coated steel sheet • Thickness 0.5 - 0.6 mm • Smooth/ embossed surface
Mineral Wool Insulation Core	• Standard density: 140 kg/m³, non-combustible, water-repellent, PH-balanced, non-corrosive
Bonding Adhesive	• High bonding strength of ≥60 kPa, stable under extreme temperatures.

Technical Information

Thermal Conductivity of Mineral Wool	≤ 0.048 W/(m·K)
Fire Resistance Rating	Class A fire resistance
Fire Resistance Limit	≥ 90 minutes (100mm thickness)
Bonding Strength	≥ 0.19 MPa
Peel Performance	100%
Bending Bearing Capacity	≥ 0.8 kN/m²
Air Infiltration Performance	ASTME283-04 <0.01 cfm/ft2 / <0.1 L/s/m2 (Liner/sec)
Water Tightness Performance	ASTME331-00 10.65 psf (pound/sqft) 510 pa (pascal)

Horizontal Application
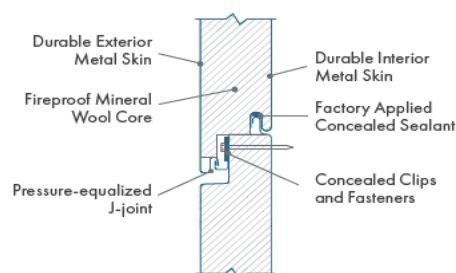
Unique Technical Advantages:

100% Dry Seal: The return face on panel ends eliminates the need for silicone, ensuring a cleaner and more efficient seal.

Optimal Insulation: Continuous mineral wool at panel joints enhances thermal performance.

Smooth Finish: Concealed fastening clips and screws provide a sleek and seamless appearance.

Pressure-Equalized Air Space: A double-joint interface featuring a unique "J" hook design enhances structural integrity and air pressure balance.

High Flatness: The hot pressing technique minimizes waviness, ensuring a consistently smooth surface.

Stronger Bonding: A precise and consistent adhesive application process improves durability and reliability.

Thermal Performance

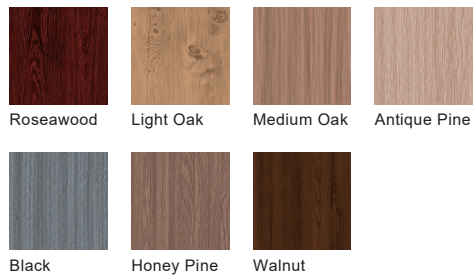| Product	Thickness (mm)	Thermal Conductivity Value W/(m.K)	Max. U Value W/(m2.K)	Min. R Value (m2.K)/W
DSR50	50		0.85	1.18
DSR80	80		0.56	1.79
DSR100	100		0.46	2.17
DSR120	120	0.048	0.38	2.63
DSR150	150		0.31	3.23
DSR175	175		0.27	3.80
DSR180	180		0.25	3.90
DSR200	200		0.24	4.32

FINISHING SELECTION

Classic Series

We love supporting our clients as they select the perfect colors for their projects. From standard shades to custom-tailored hues, we go the distance to ensure that the finish is as stunning as the design by providing color samples and expert guidance from our technical team. Based on the RAL® Color System*, our Classic Series' vast array of colors beautify exterior and interior projects.

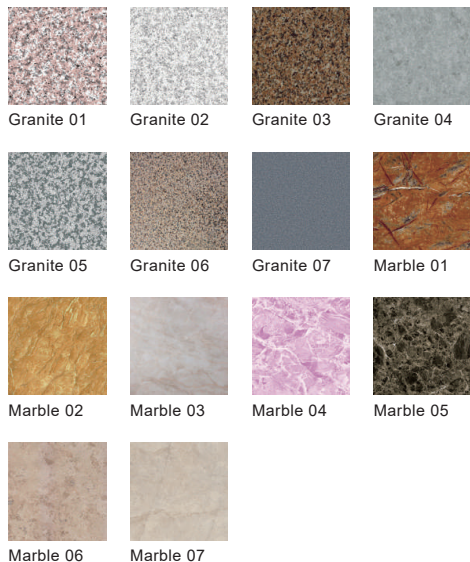|						
RAL 1001 Beige	RAL 1013 Perlweiss	RAL 1015 Hellelfenbein	RAL 1018 Zinkgelb	RAL 1028 Melonengelb	RAL 3000 Feuerrot	RAL 3003 Rubinrot
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RAL 1018 Zinkgelb	RAL 1028 Melonengelb	RAL 3000 Feuerrot	RAL 3003 Rubinrot			

Special Series

The innovative, high-performance custom colors in our Special Series make unique finishes possible. From pre-finished decorative Wood and Stoneware options that accurately and cost-effectively simulate expensive natural finishes, to our matte finish that features a subtle, aggregate stucco texture, and to the custom color requests that come from the brilliant architects and designers with whom we work, we love to help provide color and coating solutions that make building exteriors and interiors truly phenomenal.
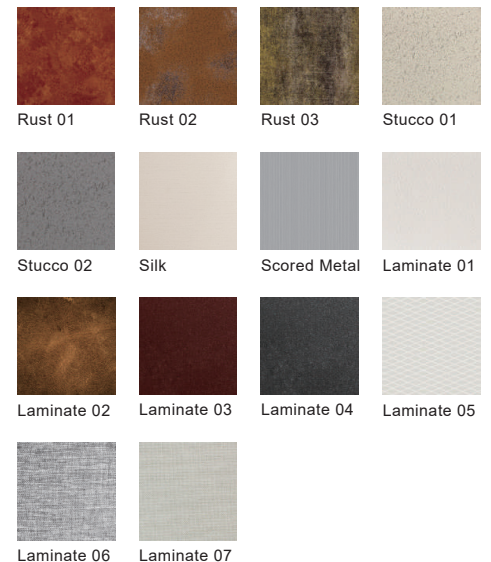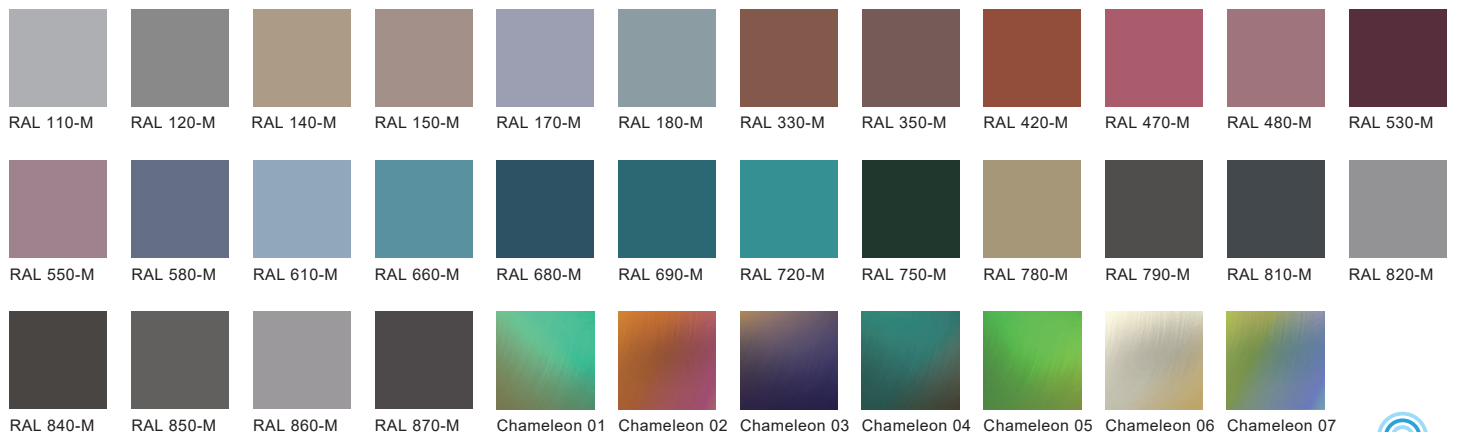
Wood Decor

Roseawood	Light Oak	Medium Oak	Antique Pine
Black	Honey Pine	Walnut	

Stoneware

Granite 01	Granite 02	Granite 03	Granite 04
Granite 05	Granite 06	Granite 07	Marble 01
Marble 02	Marble 03	Marble 04	Marble 05
Marble 06	Marble 07		

Custom Finishes

Rust 01	Rust 02	Rust 03	Stucco 01
Stucco 02	Silk	Scored Metal	Laminate 01
Laminate 02	Laminate 03	Laminate 04	Laminate 05
Laminate 06	Laminate 07		

Radiant Series

Our Radiant Series takes coating innovation and design inspiration to the next level by making it possible to create walls that feature dazzling micas, metallics, and our continuous, iridescent color-shifting gradients. Below please find a representative selection of popular options.

RAL 110-M	RAL 120-M	RAL 140-M	RAL 150-M	RAL 170-M	RAL 180-M	RAL 330-M
RAL 350-M	RAL 420-M	RAL 470-M	RAL 480-M	RAL 530-M		
RAL 550-M	RAL 580-M	RAL 610-M	RAL 660-M	RAL 680-M	RAL 690-M	RAL 720-M
RAL 750-M	RAL 780-M	RAL 790-M	RAL 810-M	RAL 820-M		
RAL 840-M	RAL 850-M	RAL 860-M	RAL 870-M	Chameleon 01	Chameleon 02	Chameleon 03
Chameleon 04	Chameleon 05	Chameleon 06	Chameleon 07			

Please kindly note that all colors shown are for preliminary selection and may vary from the actual material. For sample chips or to learn more about our Colors and Coatings, please do not hesitate to contact your **PGF Global Distribution** Sales Manager.

*Established in 1925, RAL is the leading color standard system for professional architects and designers. The RAL Color System is administered by RAL Deutsches Institut für Gütesicherung und Kennzeichnung e.V., an independent, non-profit organization.

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