

Outdoor Modular Cabinet

Rail certified outdoor trackside cabinet



The redesigned **Outdoor Modular Cabinet** is a flexible and reliable solution to ensure the smooth and dependable functioning of sensitive electronics in outdoor environments, and is **specifically tested and certified for outdoor trackside railway applications**.

- **IEC 61969-3** and **EN 50125-3** for protection against environmental conditions
- **EN 50125-3** for shock & vibration (1-3 m from the rail)
- **EN 60529** for ingress protection up to IP55
- **IEC 61587-2** and **IEC 61969-3** for Seismic Bellcore Zone 4
- **EN 50125-3** for wind resistance (180 km/h)
- **EN 1627** and **EN 1630** for vandalism protection
- **EN 50121** for electromagnetic compatibility
- **IEC 61969-2** for coordination dimensions
- **IEC 60068-2-75**, **IEC 62262** and **IK 10** for impact/hammer test

BENEFITS AND FEATURES

Protection against Environmental Conditions

- Meets requirements for pressure, temperature, humidity, wind, rain, snow and hail, ice, solar radiation, lightning, pollution, fire protection
- Withstands vibrations and shocks 1–3 m from the rail
- Earthquake secure up to Bellcore Zone 4
- Provides electromagnetic compatibility

Security and Intrusion Prevention

- Aluminum frame and double wall design for structural integrity
- Vandalism proof handles and vandalism proof screws that are only accessible from the inside
- Rugged design includes aluminum profile hinges and integrated corner blocks

Scalability and Flexibility

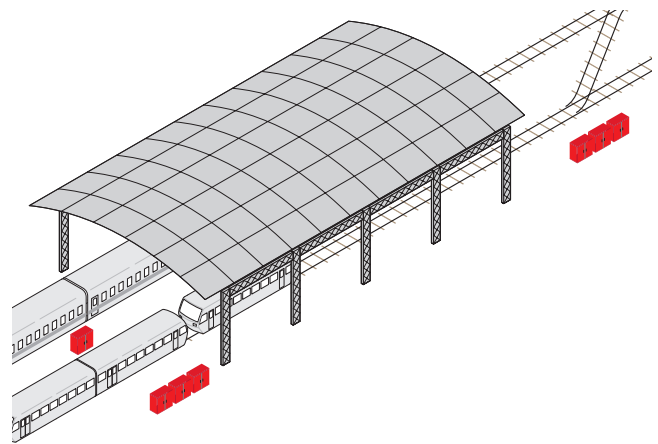
- Design allows access to cabinet from all sides
- Available in widths from 700–2000 mm, heights from 1000–2100 mm and depths from 500–1200 mm in 50 mm increments
- Extensive range of accessories, compatibility with 19" cabinet accessories

Optimal Thermal Performance

- Passive cooling (thermal performance through double wall design): Heat transfer coefficient in ambient according to IEN 61969-3, class 1, without sun irradiation: from 20 W/K up to 24 W/K
- Active cooling: (thermal performance through ventilation kit with two 24 V ventilators and thermostat): 160 W/K, air flow capacity 540 m³/h
- Options for active fan cooling with Control PWM and thermostat or air conditioning unit for optimal cooling performance

Integration Services

- nVent SCHROFF's expertise in integrating components such as battery, rectifier, AC panel, etc.
- Support in testing and simulation to ensure the cabinet meets specific application requirements





Top cover, walls and base plinth covers are only removable when doors are unlocked.



Reliable thermal performance through double wall design and active air flow through fans.



Foam-in-place gaskets and clip-on gaskets on the doors provide a protection class of IP55.

INFORMATION

Order Information			Article Number
Outdoor Modular Cabinet for Railway			10149-337
Including: frame, base, bottom panel with cut-outs, gland plate full and gland plate for cable entry, closing plate for gland plate, side panels (inside and outside; right and left), rear panel (inside and outside), top cover (inside and outside) for ventilation, vented door.			
Dimensions and Material			
Height	Width	Depth	Weight
29 U	2 x 19"	630 mm	188 kg
1630 mm	1300 mm	630 mm	
Material	Aluminum and Zinc-Magnesium Coated Steel		
Cooling (included in 10149-337)			Article Number
Ventilation kit with two 24 V ventilators and thermostat			21149-345
Accessories (included in 10149-337)			Article Number
Door Filter			60149-479
Door Shelf			21149-250
Document Pocket			ADP2
Depth Member			21149-266
Depth Middle Bracket (to fix 19" uprights or vertical middle bracket)			21149-334
Vertical Middle Bracket (to fix depth members)			21149-336
Battery Shelf			21149-274
Battery Stopper			21149-276
Earthing Cable Kit (4 mm ²)			21149-380

Other outdoor modular cabinets and accessories for non-railway-related applications are available upon request.

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