

# NVENT ERIFLEX FLEXIBAR PREFERRED POWER CONNECTION IN SIEMENS POWER DISTRIBUTION PANEL



**NVENT'S ERIFLEX PRODUCT LINE STRIVES TO MEET ALL POWER DISTRIBUTION NEEDS OF OUR CUSTOMERS THROUGH HIGH-QUALITY AND INNOVATIVE DESIGN, PRODUCTION, DEVELOPMENT AND IMPLEMENTATION.**

nVent ERIFLEX Flexibar from nVent's technical products line is approved and listed as the preferred product for power connections up to 630A in the new SIEMENS low-voltage power distribution panel called SIVACON S4. SIVACON S4 is an AS (TTA-TSK) switchgear and controlgear system, type tested according to IEC 60439-1, used for infrastructural power supply in administrative and utility buildings, in industrial and commercial buildings, as well as in public buildings, such as schools, hospitals, banks and shopping centers.

The SIVACON S4 low-voltage power distribution board concept is very safe and reliable featuring a modular design principle allowing every possible need to be met in the area of low-voltage power distribution. The SIVACON S4 system is future-proof and already complies with the requirements of the standard IEC 61439-2.

## STANDARDS OVERVIEW

International Electrotechnical Commission (IEC) The IEC is the world's leading organization that prepares and publishes International Standards for all electrical, electronic and related technologies – collectively known as electrotechnology.

IEC 61439-1 governs the safety and performance of electrical switchgear and controlgear assemblies. The IEC 61439-1 is the market standard for the construction of electrical LV switchboards and fully satisfy the requirements of designers and end users with a new generation of LV switchboards, complying with safety of:

- Persons and equipment
- Electrical availability
- Long-term reliability and conformity.

References and further information on standards can be found at: [www.iec.ch](http://www.iec.ch)

Flexibar is a flexible busbar wire replacement solution for low voltage applications available from 27 mm<sup>2</sup> up to 1200 mm<sup>2</sup> and 125 A to 2800 A. Manufactured in an ISO 9001 certified proprietary automated facility, Flexibar is formed from multiple layers of thin electrolytic copper insulated with a high-resistance, self-extinguishing PVC or silicone compound. The insulating sleeve is grooved on the inner surface, reducing the contact surface with the laminates to less than 20%, increasing flexibility and making installation easier.

"We are proud to be the approved manufacturer of flexible busbar for these state-of-the-art electrical distribution panels which are used in high precision, high-tech electrical distribution projects globally," said Christian Schochert, nVent ERIFLEX Sales Manager, Technical Solutions, nVent.

Flexibar vastly improves design and assembly flexibility and the aesthetic of finished panels. All cross sections can be bent, folded, or twisted with a very small bending radius for shorter and more compact power connections between main power and distribution equipment, between transformers and busduct, between busduct and electrical cabinets, and many other types of connections. Flexibar is an ideal alternative to large cable and rigid busbar, requiring less installation space and reducing the overall weight of panel systems.

## ABOUT NVENT PLC

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