Certificate No:
TAE00004KD

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Cable Gland

with type designation(s)
SIB-TEC Standard (including CEM variants)

Issued to
SIB Solutions Industry & Building
Boulay, Moselle, **France**

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application :

Cable glands for electric installation.

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Material	**See product description**
Suitable for open deck	**Yes**
Suitable for Hazardous areas	**No**

Issued at **Høvik** on **2022-12-06**
This Certificate is valid until **2027-12-05**.
DNV local station: **France CMC**

Approval Engineer: **Marcin Tobiasz**

for **DNV**

Frederik Tore Elter
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.

Product description
Cable glands for electric installation

Type	SIB-TEC
Design Specification	IEC 62444: 2010, EN 62444: 2013, DIN EN 62444 (VDE 0619):2014-05
Operating temperature range	-40°C to +100°C
Cable anchorage	Type A
Ingress protection	IP66; IP68 / 5bar / 30min
Gland material	Brass, Nickel Plated Brass, Stainless Steel
Seal material	Elastomer
Cable type	Armoured or Unarmoured
Gland sizes	PG thread size: PG07, PG09, PG11, PG13, PG16, PG21, PG29, PG36, PG42, PG48, PG48 DIN. Metric thread size: M12, M16, M20, M25, M32, M40, M50, M63. NPT thread size: ⅜", ½", ¾", 1.
Optional accessories	Long and short connection thread, EMC components, Locknut, 2 sealing ring versions (standard or reductive)
Type code designation	All sizes: 110020XXX ISO Short: C52XX000/005, C52XX100/105, C52XX200/205, C52XX040/045, C52XX140/145, C52XX240/245 ISO Long: C53XX000/005, C53XX100/105, C53XX200/205, C53XX040/045, C53XX140/145, C53XX240/245 PG Short: C50XX000/050, C50XX100/105, C50XX400/450, C50XX140/145 PG Long: C51XX000/050, C51XX100/105, C51XX400/450, C51XX140/145 NPT: C54XX000/050, C54XX100/105, C54XX200/205, C54XX400/450, C54XX140/145, C54XX240/245

Application/Limitation
Manufacturer's application and assembly instructions to be followed.

Suitable for open deck.

Type Approval documentation
Tests carried out
Type tests according to IEC 62444.

Marking of product
Name of manufacturer – type designation.

Periodical assessment
The scope of the periodical assessment survey is to verify that the conditions stipulated for the Type approval is complied with and that no alterations are made to the product design or choice of materials.

The main elements of the periodical assessment are:
- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Production Sample Tests (PST) and Routines (RT) checked (if not available tests according to PST and RT to be carried out)
- Review of type approval documentation
- Review of possible change in design, materials and performance
- Ensuring traceability between manufacturer's product type marking and Type Approval Certificate.

Periodical assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE