Certificate No:
TAE00004A9

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Enclosure for Electrical Equipment

with type designation(s)
CUBO C, CUBO D, CUBO S, CUBO O and CUBO W

Issued to
Ensto Building Systems Finland Oy
Porvoo, **Finland**

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

Application :

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

Degree of protection	**IP 66 / IP 67**
Vibration class	**A**

Issued at **Høvik** on **2021-06-22**
This Certificate is valid until **2025-10-25**.
DNV local station: **Finland CMC**

Approval Engineer: **Nicolay Horn**

for **DNV**

Marta Alonso Pontes
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.

Name and place of manufacturer

Ensto Building Systems OÜ,
Estonia

Product description

Enclosures of polycarbonate for use onboard ships and offshore installations.

Type:	CUBO C, CUBO D, CUBO S, CUBO O and CUBO W
Enclosure material:	Polycarbonate
Degree of protection:	IP66 /67
Rated voltage:	1000 V AC / 1500 V DC

Type designation	Size (height x width) [mm]	Size range (depth) [mm]	Mechanical strength
CUBO C	200x200 to 400x800	132 and 187	IK08 + 35 °C / -25 °C
CUBO D	55x53 to 300x230	36 to 111	IK08 + 35 °C / -40 °C
CUBO S	75x125 to 175x250	35 to 175	IK08 + 35 °C / -40 °C
CUBO O	200x200 to 400x600	132 and 187	IK08 + 35 °C / -25 °C
CUBO W	200x200 to 400x600	132 and 187	IK08 + 35 °C / -25 °C

Cubo C and Cubo O can be provided with an extension frame with 55 mm height.

Application/Limitation

Operating instruction of the manufacturer to be observed.

Type Approval documentation

Tests carried out

GL Guidelines for the performance of type approval chapter 2 – Test requirements for Electrical / Electronic equipment's and systems VI-7-2 Edition 2012.IEC 62208 (2011), IEC 60529 (2000) and EN 62262 (2002)

Marking of product

Ensto – Type designation – Manufacturer applicant address – IP rating

Periodical assessment

The scope of the periodical assessment 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 assessment are:

- Inspection on factory samples, selected at random from the production line (where practicable)
- Results from Routines (RT) checked (if not available tests according 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.

Assessment to be performed at 2 and 3.5 year and at renewal.

END OF CERTIFICATE