

CERTIFICATE OF AUTHORIZATION NR. 3741



This is to certify that ⁽¹⁾ ⁽²⁾ ⁽³⁾

OBO Bettermann GmbH und Co. KG, Menden (G) & OBO Bettermann Kft., Bugyi (H)

is hereby authorized to act as

Manufacturer & Material Organization

in accordance with the applicable rules of

10CFR50 Appendix B

This authorization is granted on the basis of their Quality Assurance Program including "ISO 9001:2008, ISO 14001:2004 & BS OHSAS 18001:2017" which scope and implementation have been reviewed and conditionally accepted by Engie Electrabel on October 26th & 27th, 2017 and February 21st & 22nd, 2018 (see audit report ref. 10010727659/000/01 [ref. TE - CNT-KCD/4FR/26109/000/01]) and finally accepted on July 12th, 2018 (see corrective action sheets ref. CAR-17073-01 to 03 and CAR-18034-01 to 03)

for the design, procurement, manufacturing, examination, testing, repair, handling, packaging, storage and shipping of

Cable support systems and accessories (see details overleaf)

at the above location only, from July 12th, 2018 until October 27th, 2020

Damien Couplet
Group Manager
Nuclear Department

Olivier MEESEN
QHSE & Knowledge
Department Manager
Nuclear Department



- (1) This authorization does not relieve its holder from his contractual obligations towards the Owner. By this authorization, Tractebel does not "approve", "certify", "rate", or "endorse" any product or construction.
- (2) In case of any change to the scope, performance address, company name, or any change in company organization or shareholding; the authorization document is deemed to be obsolete and will need renewal.
- (3) Acting for the benefit of Electrabel

Mounting systems

- US 7 K support
- US 7 support
- KU 7 NOX head plate (heavy-duty) for US 7 support
- Support bracket AW 15/30/55 2L for fixation with 2 bolts on steel support/ceiling profile (not for concrete wall fixation)
- Support bracket AW 80 2L for fixation with 2 bolts on steel support/ceiling profile or for concrete wall fixation (to be evaluated case by case)
- IS 8 K support
- IS 8 support
- KI 8 head plate (longitudinal) for IS 8 support
- KI 8 AOX head plate for welding for IS 8 support
- Support bracket AS 55 for mounting on IS 8 support with 2 bolted clamps
- Heavy-duty mounting rails MS (at least thickness of 2.5 mm) for light weight (e.g. fixation of electrical conduits or cable ducts of max 150 mm wide)

REMARKS:

- US 3 and US 5 supports are too weak to be used in a generic way as ceiling profile for seismic application. Thicknesses are quite low and distance between the holes in the head plate is quite low (100 mm). Moreover the holes diameters in the head plate are too small (11 mm and 13 mm respectively) to be able to anchor a HILTI HSL-3 M8 (14 mm required) which is the smallest qualified expansion anchor.
- Note that the holes diameter in the head plate for US 7 (K) and IS 8 (K) supports is also too small (13 mm). Holes shall be enlarged in order to install qualified expansion anchors for anchoring to concrete.
- Brackets AW 15/30/55 2L cannot be used for anchoring to concrete because the distance between the 2 holes in the head plate is too small (between 36 mm and 60 mm). It is not acceptable for the use of qualified expansion anchors (at least 60 mm spacing distance - 115 mm recommended as minimum - for HILTI HSL-3 M8 which is the smallest acceptable).

Cable tray systems

- MKS 35/60/85/110 + related accessories (connector, barrier strip, cover, etc.)
- SKS 60/85/110 + related accessories (connector, barrier strip, cover, etc.)
- EKS 60 + related accessories (connector, barrier strip, cover, etc.)
- MKSU 60 + related accessories
- SKSU 60/110 + related accessories
- WKSG 110/160 + related accessories (connector, barrier strip, cover, etc.), using allowable span between supports for seismic application (never higher than 3 m)

Cable ladder systems

- LCIS 60/110 + related accessories (connector, barrier strip, hold-down clamp, cover, etc.)
- SLCS 110 + related accessories (connector, barrier strip, hold-down clamp, cover, etc.)
- WKL 200 + related accessories (connector, barrier strip, hold-down clamp, cover, etc.), using allowable span between supports for seismic application (never higher than 3 m)
- SLS 80 C40 + related accessories
- SLS 80 W40 + related accessories
- U clamps for cables

Remarks

- LG, SLG and WKL 110/160 cable ladders cannot be selected due to the type of fixation between the C profile rungs and the side rails (riveted fixation) which is not reliable for seismic application.