

VIA E-MAIL



December 15, 2025

Michael Cooke  
Compliance Engineer  
Duro Dyne Corporation  
81 Spence Street  
Bay Shore, NY 11706

RE: Duro Dyne Cable Lock System Re-Verification (HVAC-DCS 4<sup>th</sup> Edition)

Dear Mr. Cooke:

The SMACNA Testing & Research Institute (STRI) verifies in the attached Test Report, Duro Dyne "Dyna-Tite CL12 and CL18" Cable Lock System as submitted and tested to be acceptable alternatives to the duct hanger systems prescribed in the SMACNA *HVAC Duct Construction Standards* (HVAC-DCS), 4<sup>th</sup> Edition 2020, Chapter 5, Tables 5-1, 5-1M, and 5-2 subject to the conditions in the attached Test Report.

Sincerely,

A handwritten signature in black ink that reads "Eli P. Howard, III". The signature is written in a cursive style with a horizontal line at the end.

Eli P. Howard, III  
Executive Director

Enclosure

# SMACNA TESTING & RESEARCH INSTITUTE TEST REPORT

## TEST & VERIFICATION REPORT ON DURO DYNE “DYNA-TITE CL12 AND CL18” CABLE LOCK SYSTEM

The SMACNA Testing & Research Institute (STRI) verifies Duro Dyne “Dyna-Tite CL12 and CL18” Cable Lock System as submitted and described below to be acceptable alternatives to the duct hanger systems prescribed in the *HVAC Duct Construction Standards* (HVAC-DCS), 4<sup>th</sup> Edition 2020, Chapter 5, Tables 5-1, 5-1M and 5-2 and subject to the following conditions and limitations:

1. Consistent with the HVAC-DCS requirements, upper attachment of the system directly to structures (without another device transferring the load between the wire rope and structure) shall have an allowable load not more than one-fourth of the wire rope system failure load.
2. Lower attachments, such as illustrated in HVAC-DCS Figure 5-5, shall have a minimum safety factor of two and shall not be used in a manner that would deform the duct shape or cause excessive concentrated loads on ducting.

With respect to HVAC-DCS Figure 5-5, Duro Dyne “Dyna-Tite CL12 and CL18” Cable Lock System may be adapted to any of the illustrated support configurations except the two-tier trapeze method in the lower right. This adaptation also applies to the strut channel support in Figure 5-6.

Wire rope support of trapeze bars for oval duct suspension relative to HVAC-DCS specification S3.18 is acceptable.

Wire rope passed continuously under round and rectangular duct (with both ends attached overhead) is acceptable provided that duct shape is retained and points of contact with the duct are not overstressed. Use of stress distribution saddles shall be prescribed as necessary.

3. The HVAC-DCS Table 5-1 maximum hanger spacing of 10 feet and Table 5-2 maximum spacing of 12 feet shall be maintained (and decreased as necessary to conform to Duro Dyne “Dyna-Tite CL12 and CL18” Cable Lock System working load limits).

Since Chapter 5 of the HVAC-DCS has prescribed uses and limits on duct size for single wire supports and the Duro Dyne “Dyna-Tite CL12 and CL18” Cable Lock System uses wire rope

that have larger load capacity, use is not restricted to the HVAC-DCS diametrical limits for single wires.

4. When Duro Dyne Corporation allows its hanger wire to be in a non-vertical orientation, it shall, in accordance with accepted engineering practice, provide users with adjustments to its working loads and, as necessary to conform to manufacturers' recommendations, approve the method of transfer of loadings to supporting and supported members. This stipulation shall not be construed as preempting any duty of an installer to obtain approval of the support system by an appropriate authority prior to making the installation. The SMACNA HVAC-DCS does not specifically provide for non-vertical hanger systems.
5. Criteria for use of Duro Dyne "Dyna-Tite CL12 and CL18" Cable Lock System for support of risers is not included in this verification.

Duro Dyne Corporation submitted their "Dyna-Tite CL12 and CL18" Cable Lock System which consisted of:

1. A "system" with the following components: a galvanized steel wire rope, a preformed loop created and maintained thereon by a manufacturer supplied CL12 and CL18 Cable Lock (casing, springs, pawls, and pins) and an attachable loop fixing metal grip.
2. Each system was supplied with suitably matched, compatible load rated components with load rating performance data conducted by an accredited testing laboratory.

The SMACNA Testing & Research Institute conducted a comprehensive evaluation of the submittal as an acceptable alternative for use with the SMACNA *HVAC Duct Construction Standards – Metal and Flexible*, 4<sup>th</sup> Edition 2020. This analysis included: minimum and maximum working load ranges that will prevent slip and separation of components of the systems; breaking strength of the wire rope; load test results for wire rope systems and failure load tests.