



U. S. Department of Homeland Security  
**United States Coast Guard**  
**Certificate of Approval**

Coast Guard Approval Number: 164.139/4/0

Expires: 22 August 2008

DAMPERS

HALTON OY  
PULTTIKATU 2  
LAHTI FIN-15700  
FINLAND

A-Class Fire Damper- Type FDL, tested and approved in accordance with the IMO FTP Code Annex 1, Part 3.

Damper approved for use in ducts penetrating Class A-0/A-15/A-30/A-60 bulkheads or decks. Damper and ventilation penetration must be insulated to the same criteria as the division penetrated. Maximum size of each damper module is 1300 mm x 1200 mm; minimum size is 100 mm x 100 mm. Approval includes damper types FDL-EL, FDL-PNR, FDL-PNL & FDL-SP. Approved actuators are spring, Belimo BF-24-2HL, Roder 71/245 & El-O-Matic ES-40/A/N5. Damper construction is either stainless steel or galvanized steel.

Identifying Data: Technical Research Centre of Finland (VTT) test report: RTE 11040/99. Halton Oy drawings LH-5410, LH- 5412, LH-5425 & LH-5427. USCG Letter dated 22 August, 2003.

Follow-Up Program: VTT

Factory Locations: Halton Oy  
Lahti, Finland

This certificate updates approval 164.139/4/1 to indicate the acceptable damper materials of construction.

\*\*\* END \*\*\*

THIS IS TO CERTIFY THAT the above named manufacturer has submitted to the undersigned satisfactory evidence that the item specified herein complies with the applicable laws and regulations as outlined on the reverse side of this Certificate, and approval is hereby given. This approval shall be in effect until the expiration date hereon unless sooner canceled or suspended by proper authority.

GIVEN UNDER MY HAND THIS 8<sup>th</sup> DAY OF  
OCTOBER 2003, AT WASHINGTON D.C.



J. G. LANTZ  
Chief, Lifesaving and Fire Safety Standards Division  
BY DIRECTION OF THE COMMANDANT, U.S.C.G.

