

**HQE[®] approach – Logistics Platforms:
A new HQE[®] reference documentation for refrigerated warehouses**

Certivéa adds to the NF Tertiary certification - Logistics Platforms a new HQE[®] reference documentation specific to refrigerated warehouses. This was achieved with the help of Afilog and its « HQE[®] / refrigerated » working group led by Gilles Saubier, Afilog Administrator and STEF-TFE Director for real estate.

The « logistics Platform » reference documentation had to be amended in four major ways to accommodate refrigerated warehouses specificities:

1 - Energy Management / Refrigeration equipment performance

A sub-target "4.4 Design of the refrigeration plant" has been specifically created to include the cold generation system. The efficiency of the system and the CO2 emissions of the refrigerant used are the two major areas of concern. An Igwp (Indicator Global Warming Potential) has been specifically created to quantitatively assess the performance of the system.

2 - Energy Management / Performance of the shell

The design of the cold warehouse is not subject to thermal regulation. It was therefore not possible to evaluate its performance with QEH Tertiary tools (calculation of "Ubat"). Consequently, a requirement for the thermal resistance of walls has been created with numerical thresholds for each performance level. In practice, the manufacturer can compare the performance of its walls (the "Uparoi") with these thresholds and do without a "Ubat" calculation.

3 - Maintenance - Durability of environmental performance

Certivéa intends to reformulate this target for all reference documentation as they come for reviewing. The addendum "refrigerated warehouse" anticipates the upcoming revision of this area. It was prepared according to a new division specific to cold storage: system design for easy maintenance (7.1), means for consumption monitoring and control (7.2), means for performance monitoring and control (7.3).

4 - Energy Management / Taking into account temperature ranges

The addendum is a tool designed for and adapted to cold storage. Energy performance requirements are set for three types of temperature-controlled warehouses: (cold negative temperatures, positive temperatures 0 / +5 C and 5 to 12 C).

STEF-TFE is seeking to have a new refrigerated warehouse (cold negative) built in Vendée certified, as part of a pilot test of the new repository. The goal is to obtain this first certification before the end of 2010.



The NF Tertiary Buildings - HQE[®] approach

The NF Tertiary Buildings - HQE[®] approach was launched in 2005. It singles out buildings with an environmental performance in line with current best practice.

This certification covers the programming, design and execution phases.. It relies on a reference documentation developed by Certivea, CSTB and ADEME, built around the 14 targets of the HQE[®] for a holistic environmental approach. 430 operational sites have so far been certified NF-Tertiary Buildings HQE[®], totaling over 7 million square meters.

Afilog brings together players with an interest in the development of logistics in Europe: manufacturers, logistics services providers, investors, promoters / developers, planners, architects, consultants... Afilog has been involved in major projects in sustainable development, regulation, prevention, risk urban logistics. Afilog's area of concern now embraces the sector's managerial issues. Its mission is to underline the economic significance of logistics and to promote this essential activity with professionals, communities and consumers.

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CERTIVEA is a subsidiary of CSTB Group accompanying, through the process of certification, players from the building sector in their efforts to enhance their managerial, customer satisfaction, technical and environmental performance. Certivea dedicates itself to improving the environmental quality of buildings (with the NF Tertiary Buildings - HQE[®] approach), the operational processes of architects (Architect MPRO), property developers (QUALIPROM) and real estate for rent QUALIMO). NF Etudes Thermiques and CSTB Competences were in 2007 added to Certivea's certification portfolio.

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STEF-TFE : www.stef-tfe.com

STEF-TFE is the European leader for temperature-controlled logistics. It offers a complete range of solutions for transport, logistics and I.T. systems. STEF-TFE's European logistics network includes 215 temperature-controlled sites and a fleet of 2,000 vehicles specifically equipped for the transportation of fresh, cold and frozen goods. The group employs 15,000 people in eight countries (France, United Kingdom, Belgium, Nederland, Switzerland, Italy, Spain, Portugal) and is present in Tunisia for its North African activities. Its customers include food manufacturers, retail and restaurant chains as well as French and European laboratories. STEF-TFE's sales totaled €1 984 million in 2009.

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