

HSE profile and Green Building contribution

Hilti Cable Transit System, CFS-T

LEED and **BREEAM** are third-party certification programs which provide a benchmark for the design, construction and operation of high-performance green buildings. Both promote a whole-building approach to sustainability and evaluate it by scoring points based on a set of criteria. Individual products cannot be certified under LEED or BREEAM but they can contribute to criterion compliance (prerequisites or credits).

The following information shows the areas where Hilti Firestop Cable Transit System can potentially contribute, as well as the maximum number of points that can be achieved by accomplishing each criteria and state the required values and explanations for the building certification process.

Hilti Cable Transit System is a clean, reliable solution for firestop as well as for water and gas tightness applications. Quick and easy accommodation of each cable diameter, easy to inspect and easy to re-penetrate. It consists on a mechanical Cable Transit System.



		LEED		BREEAM	
Criteria (Up to # points) & Evaluation					
Sustainable sites management					
Construction site waste	No waste or dust generation during installation and re-penetration	SS Prerequisite 1	☆☆☆	Wst 1 (3) Man 3d (4 for Man 3)	☆☆☆
Life cycle assesment, Product Carbon Footprint	Available on request	SS Credit 5.2 (1)	☆☆☆	Man 3a (4 for Man 3) Mat 1 (4)	☆☆☆
Water consumption	No water demand during installation and re-penetration	WE Credit 2 (2)	☆☆☆	Man 3c (4 for Man 3) Man 3e (4 for Man 3)	☆☆☆
Water pollution	No waste water generation during installation and re-penetration		☆☆☆		☆☆☆
Application	Electric tools needed only for fixing of frame	-		-	

Energy Optimization, Atmosphere and Pollution

Air tightness*	Gas tightness tested up of a pressure of 7 bar, refer to ABS Approval 11-HG685412-PDA	EA Prerequisite 2	☆☆☆	Ene 1 (15) Ene 6 (1)	☆☆☆
Thermal insulation*	Not determined	EA Credit 1 (1-19) IEQ Credit 7.1 (1)	☆☆☆	Ene 1 (15) Mat 6 (2)	☆☆☆
Ozone Depletion Potential	Available on request	EA Prerequisite 3	☆☆☆	IC (1)	☆☆☆

Materials and Resources

Reusability	Cables could be changed or removed without changing the Hilti Cable Transit System. There is not need for reinstallation during building lifetime and so no material waste generation.	MR Credit 1.1 (1-3) MR Credit 1.2 (1)	☆☆☆	Wst 1 (3)	☆☆☆
Product recycling	The product cannot be recycled or salvaged but the packaging can be totally recycled or salvaged	MR Credit 2 (1-2)	☆☆☆	Wst 1 (3)	☆☆☆
Recycled content	No, since it is required the traceability of raw materials to guarantee uniform and constant product performance and quality.	MR Credit 4 (1-2)	☆☆☆	Mat 5 (3)	☆☆☆
	The packaging is partially manufactured with recycled material		☆☆☆		☆☆☆
Product origin	Raw materials origin: Slovenia, Austria and Czech Republic	MR Credit 5 (1-2)	☆☆☆		☆☆☆
	Manufacturing location: Slovenia, Austria and Czech Republic		☆☆☆	☆☆☆	
Rapidly Renewable Materials	Raw materials are not rapidly renewable	MR Credit 6 (1)	☆☆☆	-	

Indoor Environmental Quality, Health and Wellbeing

IAQ (Indoor Air Quality) Management	No dangerous good or labelling needed and no content of carcinogens	IEQ Credit 3.1 (1) IEQ Credit 3.2 (1)	☆☆☆ ☆☆☆	-	
	Halogen Free Product		☆☆☆		
Low-Emitting Materials Volatile Organic Compounds	Complies with requirements sum of VOC ("TVOC") below 10 mg/m3 (after 3 days) and below 1 mg/m3 (after 28 days), refer to test report Eurofins G13229A dated March 22, 2012	IEQ Credit 4.1 (1) IEQ Credit 4.2 (1)	☆☆☆ ☆☆☆	Hea 9 (1)	☆☆☆
Acoustic Performance & Soundproofing	Not determined	-		Hea 13 (1)	☆☆☆

- ☆☆☆ Product highly contributes to Green Building certification under this clause
- ☆☆☆ Product contributes to Green Building certification under this clause
- ☆☆☆ Not applicable for this product or dependent on each situation and so not possible to evaluate in general terms
- ☆☆☆ Product makes no contribution to Green Building certification under this clause

* Lower heating and cooling costs ** Sound reduction Index

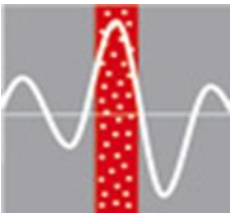
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BU Chemicals, CETsp&CMT

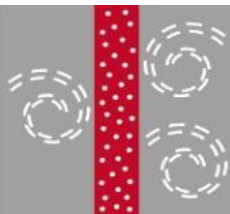
The sustainability of sites is improved with Hilti Cable Transit System by supporting LEED, BREEAM and the following extra properties and highly important characteristics of a building, as well as, preventing effectively from the spread of a fire:



The water coming from extinguishing a fire or from a possible burst pipe can find its way through penetrations for cables and pipes in walls or floor decks causing damage in additional rooms. Hilti Cable Transit System prevent water ingress in adjoining rooms or sections of a building and therefore minimize the consequential damage caused by water in the end of an accident. The water permeability has been tested subjected to an overpressure of 11 bar and test result: No water leakage over a test duration of 24 hours has been determined.



There is a huge risk of post-earthquake impacts and a following fire represents a major one for the safety of human lives and protection of assets and facilities. In a building there are a lot of non-structural components, like pipes and firestop systems, that are expected to continue working after an earthquake. Hilti has conducted extensive tests to determine the behavior of Hilti Firestop products in a seismic event. The results for Hilti Cable Transit System show their capacity to assurance fire integrity of compartments and joints and the continuity of important operations and supply systems and also to avoid smoke development and negative effects of broken service connections.



Hilti products meet stringent environmental requirements, thereby supporting environmentally friendly building construction. Energy conservation within a building is important and highly considered when evaluating the sustainability of a building. In addition, it supposes also a reduction in energy costs. Hilti Cable Transit System has been tested with the latest energy conservation regulations.

All the packagings and cans used by Hilti can be recycled. Hilti Cable Transit System are preformed, so no waste is generated on the jobsite during the construction phase, and they are considered household waste at the end of the life of the building. Please consider your national law regarding the disposal of the Hilti Cable Transit System and contact your local Hilti partner for further information.



Volatile Organic Compounds are compounds emitted as gases from certain solids or liquids. Depending on their concentration and the exposure time, they can be harmful for the health causing effects like eye, nose, and throat irritation, headaches, loss of coordination, nausea, damage to liver, kidney, and central nervous system. And some are even suspected to cause cancer. French VOC labelling regulation foresees that from 1st January 2012, any covered product placed on the market has to be labelled with emission classes based on their emissions after 28 days, tested in line with ISO 16000 standards and calculated for the European Reference Room (TC 351).



If you need additional information or documentation on a certain HSE issue, please do not hesitate to contact your local Hilti partner - we are happy to provide you with additional information required to make your green building project a success.

