

HSE profile and Green Building contribution

Hilti Firestop Sleeve CP 653

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 Speed Sleeve 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 Firestop Speed Sleeve is a ready-to-use, one-step cable management firestop device. It has easy penetration and re-penetration capabilities and also low ratings. It consists on a metal housing with firestop inlay and metal fiber as a smoke stop.

		LEED		BREEAM	
Sustainable sites management					
Criteria (Up to # points) & Evaluation					
Construction site waste	Some dust or waste generation during installation but not during repenetration	SS Prerequisite 1	☆☆☆	Wst 1 (3) Man 3d (4 for Man 3)	☆☆☆
Life cycle assesment, Product Carbon Footprint	PCF (GWP 100 years): 5.21 kg CO2-eq - low global warming potential	SS Credit 5.2 (1)	☆☆☆	Man 3a (4 for Man 3) Mat 1 (4)	☆☆☆
Water consumption	No water demand during installation and repenetration	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 repenetration		☆☆☆		☆☆☆
Application	Electric tools needed for drilling a hole	-		-	

Energy Optimization, Atmosphere and Pollution

Air tightness*	Smoke tight. Air permeability not determined	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	ODP, catalytic: < 0,00001 kg R11-eq per unit	EA Prerequisite 3	☆☆☆	IC (1)	☆☆☆

Materials and Resources

Reusability	Cables could be changed or removed without changing the Hilti Firestop Sleeve. 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	Housing, metal parts and packaging can be totally recycled or salvaged	MR Credit 2 (1-2)	☆☆☆	Wst 1 (3)	☆☆☆
Recycled content	No, since firestop products require the traceability of their 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: Malaysia, Europe	MR Credit 5 (1-2)	☆☆☆		☆☆☆
	Manufacturing location: Malaysia		☆☆☆		☆☆☆
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)	☆☆☆	-	
	Halogen Free Flame Retardants	IEQ Credit 3.2 (1)	☆☆☆		
Low-Emitting Materials Volatile Organic Compounds	VOC acc to LEED 2009 / EPA #24: 7.6 g/l - see certificate dated July 08, 2010	IEQ Credit 4.1 (1) IEQ Credit 4.2 (1)	☆☆☆	Hea 9 (1)	☆☆☆
Acoustic Performance & Soundproofing	STC = Up to 51 for 4 inch (refer to test report 30160-08-93049 dated Feb. 28, 2008). Successful protection to the sound passage and noise reduction.	-		Hea 13 (1)	☆☆☆

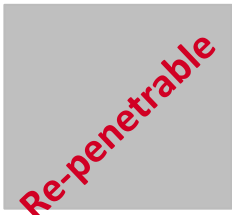
- ☆☆☆ Product highly contributes to Green Building certification under this clause
- ☆☆☆ Product contributes to Green Building certification under this clause
- ☆☆☆ Not applicable for this product or dependent on each situation and so not possible to evaluate in general terms
- ☆☆☆ Product makes no contribution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

* Lower heating and cooling costs ** Sound reduction Index

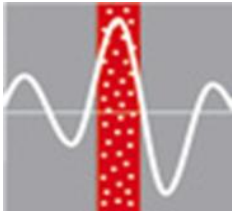
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BU Chemicals, CETsp&CMT

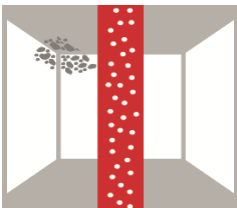
The sustainability of sites is improved with Hilti Firestop Sleeve by supporting LEED, BREEAM and the following extra properties and highly important characteristics of a building, as well as, preventing effectively from the spread of a fire:



Hilti Firestop Sleeve is an optimal solution for areas that often change services and new penetrations or subsequent re-penetrations where additional cables are required. It can also be removed and reused in different openings; so the Firestop Sleeve can be a temporary or permanent solution and no new Sleeves are required in case of future changes. Therefore, no waste gets created when requirements change!



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 Firestop Sleeve show their capacity to assure 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.



Mold in a building can attack and weaken many types of build materials and fungus, caused by moisture and humidity, can be seriously detrimental to the health of building users. Measures to successfully prevent the formation of mold and mildew in a building must be taken at the planning stage. Hilti Firestop Sleeve is manufactured with materials that provide no nutrition for fungi and tested in accordance with ISO 846 and ASTM G21, to ensure that functionality is not compromised.

All the packagings and cans used by Hilti can be recycled. Hilti Firestop Sleeve is ready-to-use, housing and metal parts can be recycled and the product is considered household waste at the end of the life of the building. Please consider your national law regarding the disposal of the Firestop Sleeve 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).



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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.

Clean-Tec is synonymous with environmentally-friendly Hilti products. Hilti puts a strong focus on reducing the environmental impact of its products, based on their full life cycle. Hilti Clean-Tec products make efficient use of resources and energy, offer the highest level of environmental performance, exceed statutory requirements and support you to work on the jobsite in a sustainable, environmentally-friendly manner.

