

HSE profile and Green Building contribution Hilti Firestop Cable Collar CFS-CC

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 Plugs 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.

The new **Hilti Firestop Cable Collar** is particularly suitable for renovation work, as it can cover irregular holes. It offers very easy maintenance and retrofitting of cables and has high movement capabilities. It is dust and fiber-free and contains no halogens or solvents.







		LEED		BREEAM	
Sustainable sites management		Criteria (Up to # points) & Evaluation			
Construction site waste	Small dust 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): 2.471 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	WE Credit 2 (2)	$\bigstar \bigstar \bigstar$	Man 3c (4 for Man 3)	2
Water pollution	No waste water generation during installation		***	Man 3e (4 for Man 3)	***
Application	Electric tools needed for drilling a hole and screw fixing	-		•	

Energy Optimization. Atmosphere and Pollution

TAIL TIGHTNESS"	Air permeability: <5m3/h m2 at 50 Pa (acc to EN 1026) - based on test report dated Jan. 07, 2013	EA Prerequisite 2	***	Ene 1 (15) Ene 6 (1)	***
Thermal insulation*	λ = approx. 0.089 W/mK - based on test report dated Aug. 08,	EA Credit 1 (1-19)	575757	Ene 1 (15)	***
	2012	IEQ Credit 7.1 (1)		Mat 6 (2)	
Ozone Depletion Potential	ODP, catalytic: < 0,00001 kg R11-eq per unit	EA Prerequisite 3	$\uparrow \uparrow \uparrow \uparrow$	IC (1)	$\uparrow \uparrow \uparrow \uparrow$

Materials and Resources

Reusability	Cables could be changed or removed without changing the Hilti Firestop Cable Collar. There is not need for reinstallation during building lifetime and so no material waste generation.	IMP CIPALITY 1 1 11-31	***	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. The packaging is partially manufatured with recycled material	MR Credit 4 (1-2)	☆☆☆ ☆☆ ☆	Mat 5 (3)	☆☆☆ ☆☆ ☆
I Product origin	Raw materials origin: Germany Manufacturing location: Germany	MR Credit 5 (1-2)	☆☆☆		
	Raw materials are not rapidly renewable	MR Credit 6 (1)		-	~ ~ ~

Indoor Environmental Quality, Health and Wellbeing

indoor Environmental addity, realth and weinbeing					
Management	No dangerous good or labelling needed and no content of carcinogens Halogen Free Flame Retardants	IEQ Credit 3.1 (1) IEQ Credit 3.2 (1)			
	VOC acc to LEED 2009 / EPA #24: 4,9 g/l - based on certificate	IEQ Credit 4.1 (1) IEQ Credit 4.2 (1)	575757	Hea 9 (1)	***
Soundproofing	Rw** = 59 dB and STC** = 59 (based on test report ESP012721P-2-ISO and ESP012721 P-2 dated March 19, 2013). Protection to the sound passage and noise reduction.	-		Hea 13 (1)	***



roduct 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

BU Chemicals, CETsp&CMT

Issued June 2013

^{*} Lower heating and cooling costs ** Sound reduction Index



The sustainability of sites is improved with Hilti Firestop Cable Collar 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:



Sound insulation is of great importance to the health and well-being of the occupants of a building. Hilti firestop products are tested for this purpose and individually tailored to the requirements of the installation and building structure. Hilti Firestop Cable Collar, tested in accordance with ISO 140-3, 20140-10 and 717-1 standard, allow compliance with the applicable sound insulation specifications for fireproofed penetrations through walls and floors, and joints between building components.



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 Firestop Cable Collar has been tested with the latest energy conservation regulations.



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 Cable Collar 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 Cable Collars 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 Firestop Cable Collar 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.



Issued June 2013

BU Chemicals, CETsp&CMT