CASE STUDY

Site C,
Glasgow, UK

WORKING HOURS SAVED*	EMBODIED CO_2 SAVED	TOTAL WEIGHT SAVED
39 HOURS	**1,516 kg**	**668 kg**

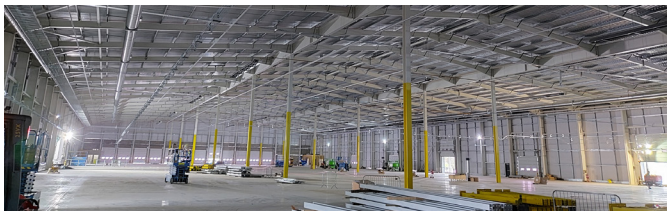
Site C is a new purpose-built distribution centre in central Glasgow Scotland. M&E contractor, Emtec were looking to use suspend modules on-site in the quickest and safest way. Due to the large drops at certain points on-site, Gripple's efficient suspension solution, Trapeze Plus FR, was selected to suspend containment modules within the warehouse section of this project. These kits have been independently tested and offer a fully compliant, fire-resistant suspension system which is suitable for a range of applications. Adjustments can be made completely tool-free, allowing installers to save time and labour and allow for changes during installation.

Kirk Willoughby, Gripple Area Sales Manager for Scotland, spoke of the project, saying "Mark Graham of Emtec is at the forefront of innovation and one of the best in the industry. The project worked very well and feedback from the site has been excellent". Due to the large size of Site C, electrical and mechanical engineers would normally need to spend a significant amount of time working at height to install various suspended systems using traditional methods. However, by using Gripple, Emtec was able to shorten the length of time spent at height installing systems which helped to improve health and safety on-site.

Project Summary	
Main contractor	Muir Group
M&E contractor	Emtec
Building type	Warehouse
Services	Electrical containment

Featured Products

Trapeze Plus FR



"By using the gripple solution and the Gripple technical team on product choice, this proved to be a faster install, neater, environmentally more friendly and lighter than the older traditional methods, safer install by cutting down working at height timescales, all plus points and on negatives".
-Off-site manufacturing Manager, Emtec Group-

REDUCTION SUMMARY

	Gripple solution	Traditional method
Overview	**Trapeze Plus FR**	Channel, threaded rod
Installation Time	**6.5 hours**	**45.2 hours**
Total Material Weight	**34 kg**	**702 kg**
Total Embodied CO_2	**77 kg**	**1,593 kg**

*Figure based on one installer working for eight hours a day

Data taken from the following sources:
BSRIA guide 'The Inventory of Carbon & Energy'. Channel based on typical weight and Embodied Carbon value for recycled ROW construction.
Threaded Rod Weight Taken from DIN975 Document 'http://www.dinstock.com/useruploads/files/threaded_rods_din975.pdf'
Embodied CO2 Constant Multiplier (kg CO2/ kg material) Taken From ICE (Inventory of Carbon and Energy) Document
Author: Dr. Craig Jones & Professor Geoffre Hammond. Version: V3.0 = 10 Nov 2019 http://www.circularecology.com/embodied-energy-and-carbon-footprint-database.html

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