

# CASE STUDY

**Distribution Centre**  
Swindon, UK





HOURS SAVED  
**7,015 HOURS**

EMBODIED CO<sub>2</sub> SAVED  
**133,211 KG**

MATERIAL WEIGHT SAVED  
**58,683 KG**

Gripple supplied [Trapeze Plus FR](#) and [Catenary Kits](#) to suspend modules, electrical containment and busbar on this 217,954 sqm warehouse and distribution centre project on behalf of a global online retailer in Swindon, UK.

Project Summary	
<b>Main contractor</b>	Buckingham Group
<b>Subcontractor</b>	Imtech Engineering Services
<b>Building type</b>	Warehouse / Distribution Centre
<b>Services</b>	Electrical Containment / Modules

Featured Products	
<p>Trapeze Plus FR</p> 	<p>Catenary Kit &amp; C-Clip</p> 



"Gripple have been fantastic for us on this project. Through design stages, they have helped us to develop solutions, helped us to identify avenues of improvement and were able to supply us with information up front so we can develop this into our business".  
- Senior Project Manager, Imtech Engineering Services -

## SAVINGS SUMMARY

	Gripple solution	Traditional method
Overview	<b>Trapeze Plus FR &amp; Catenary Kits</b>	<b>Channel, threaded rod &amp; channel nuts</b>
Installation Time	<b>1,796 hours</b>	<b>8,811 hours</b>
Total Material Weight	<b>4,684 kg</b>	<b>63,367 kg</b>
Total Embodied CO <sub>2</sub>	<b>10,632 kg</b>	<b>143,843 kg</b>
Total Labour Cost	<b>£44,900</b>	<b>£220,275</b>

\*Figure based on one installer working for eight hours a day at £25 per hour



### PROJECT DETAILS

The main contractor for this large 217,954 sqm warehouse in Wiltshire was Buckingham Group, who appointed Imtech Engineering Services as MEP subcontractor.

Imtech Engineering Services tasked the GripplE technical services team with navigating around the potential difficulties that may have arisen on-site when fitting out the building with electrical containment and modular systems. One such challenge on this project was the pitched roof, which made the GripplE Catenary system an ideal solution.

The Catenary system helped to save a huge amount of time on the programme. Using the Catenary and C-Clip end fixings allowed installers to loop wire rope suspensions around the steel beams and span the roof to create a tramline system, whereby drops could be made, in turn allowing the Trapeze Plus FR to suspend a range of electrical containment.

Trapeze Plus FR kits have been independently tested and offer a fully compliant, fire-resistant suspension system that 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. As the installation was completed faster, less time was spent by installers working at height - reducing the likelihood of accidents occurring on-site. Trapeze Plus FR was installed directly into the modules on the ground and lifted up to the ceiling, supporting the module and providing fall arrest should the lifting machinery fail. All waste was disposed of using a Loadhog Pally Magnum

(pictured bottom right) to help recycle offcuts from the site. The Pally Magnum is a collapsible bulk container attached to a pally (a pallet and a wheeled dolly), enabling efficient movement of bulky or loose items without the need for other manual handling equipment and is often used as an end-to-end transit solution. The reduction of traditional materials used on-site, along with the Pally Magnum, enabled Imtech to significantly reduce the amount of CO<sub>2</sub> generated by this project. In turn, this helped to assist Imtech with their own sustainability targets.

Speaking on the project, a senior project manager at Imtech said, "We had a large labour force on this project so having training and toolbox talks regularly has really helped workers on-site understand the products and installation methods. Since the process began I believe Imtech and GripplE have solidified a really strong relationship. From the beginning of the journey, GripplE have understood our challenges and have risen to the occasion when needed. They have engaged with us on and off-site with regular visits. In the future, they are going to be a very strong partner for us."

GripplE's regional sales director, Mitch Rowley, worked closely alongside Imtech on this project and stated, "The feedback we have had so far from Imtech has been fantastic. Throughout the process, we continued to collaborate and travel down to site to ensure that the installation was going as planned and being installed to manufacturers' guidelines. We look forward to working with the Imtech team on a range of future projects and delivering further labour, CO<sub>2</sub> and health & safety benefits."



\*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 CO<sub>2</sub> Constant Multiplier (kg CO<sub>2</sub>/ 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.circularrecology.com/embodied-energy-and-carbon-footprint-database.html>