



Construction Products Group

**Environmental & Sustainability Data Collation Report - Financial Year 2022/23
(Incorporating GHG Reporting to ISO 14064-1)**

PermaQuik - Wigan production facility



Introduction

Tremco CPG UK Ltd is committed to producing PermaQuik by using the most sustainable constituent products available whilst also operating to BS EN ISO 9001, BS EN ISO 14001, BS ISO 45001 and BRE BES 6001 standards covering quality, environmental, health & safety and sustainability respectively.

This report also includes the mandatory reporting requirements stipulated by ISO 14064-1 “Specification with guidance at the organisation level for the quantification and reporting of greenhouse gas emissions and removals”. In this respect, the management and employees of Tremco CPG UK Ltd recognise the obligation to protect the environment (at all levels e.g. local, national and global) in which it operates. This obligation is reflected in the following key commitments:

- To continue implementing existing emission reduction measures
- To continually improve our energy efficiency and reduce our environmental impacts
- To use cost-effective and environmentally friendly energy sources, where available
- The procurement of reliable, cost effective and environmentally sustainable supplies where possible
- The promotion of an energy conservation culture within the company through staff education and involvement
- To evaluate greenhouse gas emissions from PermaQuik production and to continually strive for new methods to reduce them

We work closely with our supply chain partners to actively develop and introduce suitable management systems, certified standards, and directives to enhance the built environment. We are committed to continually improving our effectiveness in these areas and will continue to liaise with stakeholders and set itself meaningful and measurable objectives and targets to achieve this in line with BRE BES 6001.

The following data is compliant with the requirements of the Building Research Establishment (BRE) Environmental and Sustainability Standard BES 6001 ‘*Framework Standard for the Responsible Sourcing of Construction Products*’.

Stuart Hutton

HSE Manager*
Tremco CPG UK Ltd

*And ‘Responsible Person’ as identified under GHG standard ISO 14064-1

Sustainability Principles	Construction Industry Performance Indicators & Tremco CPG UK Ltd Specific KPI's	Unit of expression	Link to BES 6001	Wider Industry & UK Gov't Targets	Tremco CPG UK Ltd Actual Data 2023 Baseline	Target Set	Quantitative	Qualitative	Tremco CPG UK Ltd Targets to 2028
Environmental Management Systems	1.1 % of production sites covered by a 'UKAS' certified EMS (such as ISO14001, EMAS and for SMEs, BS8555)	% of production sites (and absolute number compared to total)	Management systems (sections 4.2.3 of BES 6001)	Increasing the m ² , as well as production sites, covered by an EMS (e.g. ISO 14001) to 95%	100 %	Y	Y	N/A	Maintain % of production sites covered by a UKAS certified EMS at 100%
Waste minimisation	1.2a kg of waste to landfill as a proportion of production output (supplemented by 3.1b & c)	kg per tonne	Waste Management (section 4.4.4 of BES 6001)	Reducing overall factory waste by 10%	0.00 kg/t from product	Y	Y	N/A	Maintain kg/t of waste at 0.00 kg per tonne
Waste minimisation	1.2b Net waste ratio. Ratio of 'total waste product usage' to 'waste to landfill'	Ratio	Waste Management (section 4.4.4 of BES 6001)	-	No recycled/waste product used	Y	Y	N/A	-
Emissions (excluding CO ₂ e)	1.3 Number of convictions for air and water emissions per annum	Number per annum	Local communities (section 4.4.13 of BES 6001)	Reducing the convictions for air and water emissions to zero	0	Y	Y	N/A	Maintain zero convictions for air and water emissions
Stakeholder Engagement	1.4 Stakeholder engagement. <i>No Indicator – performance to be covered qualitatively</i>	n/a	Social Requirements (section 4.4 of BES 6001)	-	-	N/A	N/A	N/A	Continued engagement with all parties
Quality & Performance	1.5 % of production sites covered by a 'UKAS' certified 9001 quality management system	% of production sites (and absolute number compared to total)	Management systems (section 4.2.3 of BES 6001)	Increasing production sites, covered by a quality system (e.g. ISO 9001) to 95%.	100 %	Y	Y	N/A	Maintain % of production sites certified to BS EN ISO 9001 at 100%
Responsible Sourcing	1.6 % of reported production certified to BES 6001	% of reported production tonne Certified to BES 6001	Management systems (section 4.2.3 of BES 6001)	Increasing products covered by a Responsible Sourcing standard (e.g. BES 6001) to 95%	Application underway	Y	Y	N/A	Increase % of product certified to BES 6001 at 'V. Good' to 100%

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Energy & CO ₂ e emissions (Production)	2.1 Energy used in production as a proportion of production output	kWh per tonne	Energy & Greenhouse gas Emissions (sections 3.4.1 & 4.4.2 of BES 6001)	Reducing overall kWh/tonne of energy used in production by 10% & Reducing CO ₂ emissions for production by 20% Note: Wider UK Government target was set in April 2021 of a 78% reduction by 2035 based on 1990 levels	xxx kWh/tonne	Y	Y	N/A	Reduce kWh/tonne emissions from production by 5% from 2023
	2.1a Energy intensity of production output	tonne : kWh ratio	Energy & Greenhouse gas Emissions (sections 4.4.1 & 4.4.2 of BES 6001)		1 : xxx	Y	Y	N/A	Reduce energy intensity ratio from production by 5% from 2023
	2.1b Energy intensity of production output	£turnover : kWh Ratio	Energy & Greenhouse gas Emissions (sections 4.4.1 & 4.4.2 of BES 6001)		1 : xxx	Y	Y	N/A	Reduce energy intensity ratio from production by 5% from 2023
	2.2 CO ₂ e emissions as a proportion of production output	kgCO ₂ e per tonne	Energy & Greenhouse gas Emissions (sections 4.4.1 & 4.4.2 of BES 6001)		xxx kgCO ₂ e/tonne	Y	Y	N/A	Reduce kgCO ₂ e/tonne emissions from production by 5% from 2023
	2.2a GHG intensity of production output	tonne : kgCO ₂ e Ratio	Energy & Greenhouse gas Emissions (sections 4.4.1 & 4.4.2 of BES 6001)		1 : xxx	Y	Y	N/A	Reduce GHG intensity ratio from production by 5% from 2023
	2.2b GHG intensity of production output	£turnover : kgCO ₂ e Ratio	Energy & Greenhouse gas Emissions (sections 4.4.1 & 4.4.2 of BES 6001)		1 : xxx	Y	Y	N/A	Reduce GHG intensity ratio from production by 5% from 2023

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CO ₂ e emissions (Transport)	2.3a Average delivery distance travelled per m ³ (from factory gate to customer)	km per tonne	Transport Impacts (section 4.4.8 of BES 6001)	Note: Note: Wider UK Government target was set in April 2021 of a 78% reduction by 2035 based on 1990 levels	320.07 km/tonne	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3b Tonnes moved split by three modes: road, rail, inland barge	tonne moved by each mode	Transport Impacts (section 4.4.8 of BES 6001)		2069.00 tonne (100% Road)	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3c Average load for each mode	tonne per load	Transport Impacts (section 4.4.8 of BES 6001)		15.21 tonne	Linked to 2.3d	N/A	N/A	Linked to 2.3d
	2.3d CO ₂ e emissions as a proportion of production output	kgCO ₂ e per tonne	Transport Impacts (section 4.4.8 of BES 6001)		279.12 kgCO ₂ e/t (18.35 kgCO ₂ e/t as part of a 15.21 tonne load)	Y	Y	N/A	Reduce kgCO ₂ e/t emissions by 5% from 2023
Site Stewardship	3.1 % of recycled material in the product	% of recycled material in the product)	Resource Use (Section 4.4.3 of BES 6001)	-	6.52%	Y	N/A	N/A	Maintain at this level. Explore bitumen as a further recycling source.

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Water	3.2a Mains water use as a proportion of production output	Litres per tonne	Water Extraction (section 4.4.5 of BES 6001)	Reduce mains water consumption by 20%	0.00 Litres/t	Y	Y	N/A	N/A
	3.2b Controlled groundwater use as a proportion of production output	Litres per tonne	Water Extraction (section 4.4.5 of BES 6001)		0.00 Litres/t	Y	Y	N/A	N/A
	3.2c Mains water intensity of production output	Production tonne : Litres ratio	Water Extraction (section 4.4.5 of BES 6001)		N/A (zero water)	Y	Y	N/A	N/A
	3.2d Controlled groundwater Intensity of production output	Production tonne : Litres ratio	Water Extraction (section 4.4.5 of BES 6001)		N/A (zero water)	Y	Y	N/A	N/A
Site Stewardship	3.3 % of relevant production sites that have site specific action plans	% of relevant production sites (and absolute number compared to total)	Resource Use (Section 4.4.3 of BES 6001)	-	100%	N	N/A	N/A	Maintain at 100%

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Health & Safety	<p>4.1a Reportable Injuries per 100,000 direct employees</p> <p>4.1b Lost time injuries for 'direct employees' per 1 million hours worked</p>	<p>Number of reportable injuries per 100,000 direct employees And absolute number per annum</p> <p>Number of LTI's per 1 million hours worked for direct employees and absolute number per annum</p>	<p>Management systems (section 4.2.3 of BES 6001)</p>	<p>Reduction in accident frequency of 65% between 2014 and 2018</p> <p>MPA target = 50% reduction in LTIFR between 2020 and 2025 to 1.5</p>	<p>568.18 per 100,000 employees (1 injury)</p> <p>2.84 LTI's per 1 million hours (1 LTI)</p>	Y	Y	N/A	<p>Overarching Zero harm expectation, and maintain LTIFR 'direct employees' figures at no more than 2 LTI per annum</p>
	<p>4.2b % of employees covered by environmental and H&S management systems following the principles of BS EN 14001 or BS ISO 45001</p>	<p>% of employees covered by BS EN ISO 14001 or BS ISO 45001 systems</p>	<p>Employment & Skills (section 4.4.12 of BES 6001)</p>	<p>Increasing the % of employees covered by MPA Safer by competence training and qualifications to 100%</p>	<p>100%</p>	Y	Y	N/A	<p>Maintain % of Relevant employees covered by BS EN ISO 14001 & BS ISO 45001 management systems at 100%</p>
Employment & Skills	<p>4.2c Safety, health, Environmental and Responsible Sourcing related training undertaken by Flowcrete UK Ltd Employees</p>	<p>Hours of training attended</p>	<p>Employment & Skills (section 4.4.12 of BES 6001)</p>	<p>No target set at Baseline – measure introduced in 2017</p>	<p>196 hours (HSE & BES 6001)</p> <p>This includes 2024 training for 'roll-out' of BES 6001 based upon FYE23 data</p>	-	-	-	<p>Continue HSE & BES 6001 specific training and inductions</p>

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Local Community	4.3 % of relevant production sites with community liaison activities (supplemented by 1.3 & 3.3)	% of relevant production sites (and absolute number compared to total)	Local Communities (section 4.4.13 of BES 6001)	Maintaining the % of relevant production sites that have community liaison activities at 100%	100%	Y	Y	N/A	Maintain % of relevant production sites that have community liaison activities at 100%
	4.3a Number of community complaints (supplemented by 1.3)	Complaints per production tonne	Local Communities (section 4.4.13 of BES 6001)		0/tonne	Y	Y	N/A	Overarching zero expectation
	4.3b Number of community events held, attended or sponsored	Number of events per year	Local Communities (section 4.4.13 of BES 6001)		£9000 cash in UK plus 10 events (Group wide)	Y	Y	N/A	Maintain local, UK & Global initiatives at current level
	4.3c % use of constituent materials sources within 50km of production facilities (i.e. support for local business)	%	Local Communities (section 4.4.13 of BES 6001)		14.90%	Y	Y	N/A	Maintain minimum 50% use of constituent materials sources with 50km of production facilities subject to product technical specifications and supply availability

Notes:

It should also be noted that community liaison activities are relevant and appropriate to our immediate neighbours and the areas in which we operate.

4.3c data represents the % usage of any given source within the final product. This is to ensure that the % shown is representative of £turnover & tonnage used rather than just geographic position. i.e. A single very local constituent with a low value, purchased once per year should not adversely affect (falsely improve) the published figures, as in reality such a purchase could represent 0.001% of the constituents purchased, with large value/volume items being purchased from further afield.

Constituent material transport:

Sustainability Principles	Constituent material transportation analysis	Unit of expression	Required link to Responsible Sourcing BES 6001	Related Gov't Targets	Tremco CPG UK Ltd Base-Line Data 2023	Tremco CPG Ltd Targets to 2028
CO₂ Emissions (Transport)	Delivery distance travelled per tonne of traceable constituent material relative to proportionate usage (from source to production facility)	km travelled per constituent tonne supplied and estimated carbon emissions	Transport Impacts (section 4.4.8 of BES6001)	April 2021 UK Government target is 78% reduction by 2035 based on 1990 levels.	132.74 km & 3.86 kgCO₂e per constituent tonne (return journey as part of a 30 tonne delivery)	Maintain at or below this level
	Method of transportation split by modes	% moved by each mode	Transport Impacts (section 4.4.8 of BES 6001)		100 % (Road)	N/A
	Average load for each mode	Tonnes per load by mode	Transport Impacts (section 4.4.8 of BES 6001)		30 tonnes (Road)	N/A

Transport related aspects and impacts of our business and terminology used:

As part of our policy to reduce our environment aspects and impacts associated with transport, these have been assessed via the organisations UKAS accredited BS EN ISO 14001 certified management system, examining and detailing issues pertaining to our impacts upon air, water, land, natural resources, flora, fauna and human interaction in terms of past, present and planned events under our direct control, those influenced by supplier and those influenced by customer demand.

In accordance with our transport policy, and in addition to customer transport, we also monitor the transport distances associated with constituent materials. This is performed on an annual basis. We actively seek to source constituents from local suppliers to reduce the environmental impact of our operations. However, as we do not directly control the operations of our suppliers, we are unable to monitor their direct CO₂e emissions (estimate shown above), but can monitor our own impact on this in terms of transport distances and by efficient ordering of products in 'full loads' wherever possible.

The Methodology for calculation of all transport related KPI's is taken directly from ISO 14064-1.

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GHG ISO 14064-1 mandatory reporting requirements:

Detail of 'Boundaries'

Production of 'PermaQuik'.

Direct and indirect emissions by GHG source	2022/2023
Electricity (Excluding Solar)	0.000 kgCO ₂ e/m ³
Solar Electricity	0.000 kgCO ₂ e/m ³
Gas oil – e.g. for heating (i.e. known as Red Diesel or Gas Oil)	0.000 kgCO ₂ e/m ³
Recovered fuel oil/other heating oil (specify)	0.000 kgCO ₂ e/m ³
Diesel for mobile plant	0.000 kgCO ₂ e/m ³
Mains natural gas	0.000 kgCO ₂ e/m ³
Bottled gas	0.000 kgCO ₂ e/m ³
Coal	0.000 kgCO ₂ e/m ³
Biofuel	0.000 kgCO ₂ e/m ³
Other renewable energy source	0.000 kgCO ₂ e/m ³
Other site energy source (Bulk Gas)	0.000 kgCO ₂ e/m ³

A description of how the CO₂e from biomass fuel is treated

Not Applicable.

A description of how the CO₂e relating to Solar Generated Electricity is treated

Not applicable.

GHG removals

Not applicable.

Exclusion of GHG sources and justification statement

No exclusions made within the boundaries established.

Historical base year data

The base line year is given as **2023** unless otherwise stated.

Explanation of changes from the base year, or recalculation of data

We are ahead of expectation in terms of improvement.

Reference to quantification methodology and factors and any changes made (this statement includes the methodology for production, client transport and constituent transport)

Methodology taken directly from ISO 14064-1. Please also see overall summary notes (below).

Uncertainty statement

The organisation has undertaken an uncertainty exercise in accordance with EPA regulations. However, the data collation is verified before use, and the factors used to determine GHG are supplied by Defra, with the uncertainty values being extremely low. The level of uncertainty of the resulting estimates depends significantly on the source category and the pollutant. However, as our sources of CO₂ emissions arise from the combustion of fuel, this uncertainty is vastly reduced, as emissions can be estimated with a high degree of certainty regardless of how the fuel is used as these emissions depend almost exclusively on the carbon content of the fuel, which is generally known with a high degree of precision.

Verification statement, and type of verification and level of assurance achieved

AA1000 moderate level of assurance. This level of assurance is equivalent of a limited assurance under ISO 14064-3.

Overall summary notes:

Tremco CPG UK Ltd has adopted the objectives and targets detailed above. Where organisation data indicates that the industry (trade association) target has been met, whilst it is desirable to surpass the aforementioned target, the requirements in terms of BES 6001 have been achieved. Revised 'organisational' targets will be discussed within the management review meetings to determine the scope for further improvement. KPI 2.3d relates to the transportation of the product 'PermaQuik' from the production facility to site, and the associated return journey, linked to KPI's 2.3a-c. Transport related environmental aspects and impacts have been assessed via the organisations UKAS accredited BS EN ISO 14001 certified management system, with the main contributory factors being CO₂e emissions and transport distances.

The term 'UKAS' refers to a certificate issued by a UKAS accredited certification body.