

# embodied carbon declaration

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EC0004-C: 03/23

## embodied carbon declaration for pegler terrier

Measuring our carbon emissions is the first step on the path to reducing them. As manufacturers of integrated piping systems, disclosing the embodied carbon of our products is key for achieving credible full life cycle assessments of the systems and buildings we help build.

The embodied carbon of a product includes all emissions released during making, installing and end-of life disposal. This excludes any emissions produced during its use and any benefits of potential reuse, recovery or recycling of materials at the end of its life. In the case of Aalberts IPS products, most emissions originate from the raw materials used to make them. This report does not include embodied carbon of packaging.

The table below shows the embodied carbon of our products calculated using **CIBSE TM65\***. The total embodied carbon is reported in **kgCO2e**: kg of carbon dioxide equivalents. This shows the impact of all greenhouse gas emissions as if they were CO2 to allow for unified reporting.

While we conduct further investigation into our supply chains, we are choosing to calculate embodied carbon by using industry average values for the percentage of recycled content in our raw materials.



### Pegler Terrier

Pegler Terrier is a range of radiator controls compatible with 10mm and 15mm pipes.

The range exceeds all European approvals and performance standards, meeting Part L of Building Regulations.

Pegler Terrier TRV includes clear control markings with a user-friendly colour coded strip and a mechanism to aid visually impaired further enhancing the interaction

Revision	Notes	Date
1.0	/	17/11/22
1.1	Added commercial radiator valves range	08/12/22
1.2	Removed pegler logo from top right	15/03/23

## domestic radiator valves

Pegler Terrier radiator valves have long been the most trusted and respected in the industry for quality, design, reliability, and overall value for money.

Robust construction under the most stringent quality control conditions assures a long working life.

Where appropriate there is compliance with kitemark British Standards or the European norm (BS 2767-10, EN215), with independent testing and certification.

Pegler's investment in advanced manufacturing techniques to compliment the traditional skills of the workforce has achieved BS EN ISO 9002 (BS 5750) accreditation.

## thermostatic radiator valves

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
631800	TRV FM Cr	T3TRV	8x10xR½	<b>1.075</b>
631801	TRV FM Cr	T3TRV	15xR½	<b>1.063</b>
631804	TRV and LS inc drain (pack) FM Cr	T3TRVCPDLS	8x10xR½	<b>1.908</b>
631805	TRV and LS inc drain (pack) FM Cr	T3TRVCPDLS	15xR½	<b>1.889</b>
631808	TRV and LS inc drain (pack) FM Cr	T3TRVCPDLSSTR	15xR½	<b>2.127</b>
631807	TRV and LS (pack) FM Cr	T3TRVCPLSSTR	15xR½	<b>1.970</b>
631820	TRV integrated push-fit FM Cr	T3TRVIPF	15x10xR½	<b>1.134</b>
631821	TRV integrated push-fit FM Cr	T3TRVIPF	15xR½	<b>1.179</b>
631802	TRV and LS (pack) FM Cr	T3TRVLS	8x10xR½	<b>1.747</b>
631803	TRV and LS (pack) FM Cr	T3TRVLS	15xR½	<b>1.732</b>
631865	TRV with elbow FM Cr	T3TRVPFE	15x10xR½	<b>1.281</b>
631868	TRV with elbow FM Cr	T3TRVPFE	15x10xR½	<b>1.309</b>
631822	TRV push-fit with elbow FM Cr	T3TRVPFECF	15x10xR½	<b>1.392</b>
631867	TRV and LS inc drain and elbow (pack) FM Cr	T3TRVPFECPDLS	15x10xR½	<b>2.333</b>
631870	TRV and LS inc drain and elbow (pack) FM Cr	T3TRVPFECPDLS	15xR½	<b>2.374</b>
631866	TRV and LS with elbows (pack) FM Cr	T3TRVPFELS	15x10xR½	<b>2.176</b>
631806	TRV FM Cr	T3TRVSTR	15	<b>1.189</b>
631824	TRV and LS inc drain and elbows (pack) FM Cr	T3TRVTPFECPDLS	15x10xR½	<b>2.438</b>
631823	TRV and LS inc elbows (pack) FM Cr	T3TRVTPFECPLS	15x10xR½	<b>2.399</b>

## manual radiator valves

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
601056	LS inc drain FM Cr	367CPDLS	10xRp½	<b>0.830</b>
601058	LS inc drain FM Cr	367CPDLS	15xRp½	<b>0.825</b>
601036	LS FM Cr	367CPLS	10xR½	<b>0.676</b>
601038	LS FM Cr	367CPLS	15xR½	<b>0.671</b>
601128	LS FM Cr	367CPLS IC	15	<b>0.674</b>
601026	TRV WH FM Cr	367CPWH	10xR½	<b>0.852</b>
601028	TRV WH FM Cr	367CPWH	15xR½	<b>0.863</b>
601118	TRV WH FM Cr	367CPWH IC	15	<b>0.867</b>
601048	LS inc drain FM	367DLS	15xR½	<b>0.825</b>

66I207	LS inc drain FM Cr	367IPFCPLS	10xR $\frac{1}{2}$	<b>0.736</b>
66I208	LS inc drain FM Cr	367IPFCPLS	15xR $\frac{1}{2}$	<b>0.760</b>
66I204	TRV WH and elbow FM Cr	367IPFCPWH	15xR $\frac{1}{2}$	<b>0.952</b>
60I018	LS FM	367LS	15xR $\frac{1}{2}$	<b>0.671</b>
66I009	LS inc drain and elbow FM Cr	367PFECPDLS	15x10xR $\frac{1}{2}$	<b>1.037</b>
66I010	LS inc drain and elbow FM Cr	367PFECPDLS	15x10xR $\frac{1}{2}$	<b>1.059</b>
66I209	LS inc drain and elbow FM Cr	367PFECPDLS	15x10xR $\frac{1}{2}$	<b>1.063</b>
66I005	LS FM Cr	367PFECPLS	15x10xR $\frac{1}{2}$	<b>0.886</b>
66I006	LS FM Cr	367PFECPLS	15xR $\frac{1}{2}$	<b>0.909</b>
66I202	TRV WH and elbow FM Cr	367PFECPWH	15xR $\frac{1}{2}$	<b>1.190</b>
66I205	LS inc drain FM Cr	367TPFCPDLS	15x10xR $\frac{1}{2}$	<b>0.975</b>
66I206	LS inc drain FM Cr	367TPFCPDLS	15xR $\frac{1}{2}$	<b>0.998</b>
60I006	TRV WH FM	367TRV	10xR $\frac{1}{2}$	<b>0.852</b>
60I008	TRV WH FM	367TRV	15xR $\frac{1}{2}$	<b>0.863</b>
66I001	TRV WH FM Cr	367TRVPFECF	15x10xR $\frac{1}{2}$	<b>1.079</b>
66I013	TRV WH FM Cr	368CPWH	15x10xR $\frac{1}{2}$	<b>1.171</b>
602028	TRV WH FM	368CPWH	15xR $\frac{1}{2}$	<b>0.957</b>
66I017	LS inc drain and elbow FM	368PFECPLS	15xR $\frac{1}{2}$	<b>0.977</b>
602148	LS with drain FM Cr	368TCPDLS	15xR $\frac{1}{2}$	<b>0.934</b>
602038	LS FM Cr	368TCPLS	15xR $\frac{1}{2}$	<b>0.765</b>
602138	LS FM Cr	368TCPLS	15xR $\frac{1}{2}$	<b>0.848</b>
603038	LS FM Cr	369CPLS	15xR $\frac{1}{2}$	<b>0.740</b>
603028	TRV WH FM Cr	369WH	15xR $\frac{1}{2}$	<b>0.915</b>
634005	Extension tail piece (L=40mm)	ETP	15	<b>0.244</b>
634006	Extension tail piece (L=40mm) Cr	ETPCP	15	<b>0.244</b>
553002	Circulator pump isolating ball valve	PB300P	22	<b>1.519</b>
553003	Circulator pump isolating ball valve	PB300P	28	<b>1.729</b>
7P1011	Push fit connector FM CR	PFC	10x $\frac{1}{2}$	<b>0.177</b>
7P1013	Push fit connector FM CR	PFC	15x $\frac{1}{2}$	<b>0.191</b>
7P1010	Push-fit elbow connector FM CR	PFE	10x $\frac{1}{2}$	<b>0.216</b>
7P1012	Push-fit elbow connector FM CR	PFE	15x $\frac{1}{2}$	<b>0.238</b>
7P1014	Push-fit release tool	RT	10	<b>0.038</b>
7P1015	Push-fit release tool	RT	15	<b>0.045</b>
678021	Differential Pressure Valve	USV22	22	<b>1.200</b>

## commercial radiator valves

Thermostatic radiator valves have been designed for use on commercial buildings, providing performance and safety functions.

TRVs are approved to EN 215 and employ a patented 'lift and lock' operation which prevents accidental adjustment.

Belmont TRVs come in three body patterns: angle, horizontal and straight. They offer a choice of pre-setting and non-pre-setting options

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
680009	LS inc drain FM Cr	97CPDLS	15x $\frac{1}{2}$ xR $\frac{1}{2}$	<b>1.358</b>
680008	LS FM Cr	97CPLS	15x $\frac{1}{2}$ xR $\frac{1}{2}$	<b>1.078</b>
680011	LS FM Cr	97CPLS	22x $\frac{3}{4}$ xR $\frac{3}{4}$	<b>1.510</b>

680019	LS FM Cr	97CPLSIC	15x1/2xR1/2	<b>1.082</b>
680007	TRV WH FM Cr	97CPWH	15x1/2xR1/2	<b>1.082</b>
680010	TRV WH FM Cr	97CPWH	22x3/4xR3/4	<b>1.514</b>
680018	TRV WH FM Cr	97CPWHIC	15x1/2xR1/2	<b>1.086</b>
680002	LS FM	97LS	15x1/2xR1/2	<b>1.078</b>
680005	LS FM	97LS	22x3/4xR3/4	<b>1.510</b>
680001	TRV WH FM	97WH	15x1/2xR1/2	<b>1.082</b>
680004	TRV WH FM	97WH	22x3/4xR3/4	<b>1.514</b>
681008	LS FM Cr	98CPLS	15x1/2xR1/2	<b>1.421</b>
681011	LS FM Cr	98CPLS	22x3/4xR3/4	<b>1.953</b>
681007	TRV WH FM Cr	98CPWH	15x1/2xR1/2	<b>1.426</b>
681010	TRV WH FM Cr	98CPWH	22x3/4xR3/4	<b>1.957</b>
681002	LS FM	98LS	15x1/2xR1/2	<b>1.421</b>
681005	LS FM	98LS	22x3/4xR3/4	<b>1.953</b>
681001	TRV WH FM	98WH	15x1/2xR1/2	<b>1.426</b>
681004	TRV WH FM	98WH	22x3/4xR3/4	<b>1.957</b>
686122	Anti-theft thermal ring	ATR	10x30x30	<b>0.064</b>
686123	Thermal ring removal and adjust tool	ATRT	n/a	<b>0.555</b>
686121	Robust anti-vandal cover	AVC	n/a	<b>0.383</b>
686095	Thermostatic head	B1301-0-4	M30x1 1/2	<b>0.721</b>
686005	Thermostatic head	B1301-4	M30x1 1/2	<b>0.718</b>
686006	Liquid head with remote sensor	B1401-4	2m	<b>1.101</b>
686009	Liquid head with remote sensor	B1401-4	8m	<b>1.206</b>
686011	Liquid head with remote sensor	B1701-4	2m	<b>1.406</b>
686012	Liquid head with remote sensor	B1701-4	5m	<b>1.476</b>
686013	Liquid head with remote sensor	B1701-4	8m	<b>1.509</b>
686001	TRV FM Cr	B4451-4	15x1/2xR1/2	<b>1.716</b>
686091	TRV anti-theft FM Cr	B4451-4	15x1/2xR1/2	<b>1.599</b>
686002	TRV FM Cr	B4452-4	15x1/2xR1/2	<b>1.723</b>
686092	TRV anti-theft FM Cr	B4452-4	15x1/2xR1/2	<b>1.611</b>
686200	Gland removal tool	GRT	n/a	<b>6.850</b>
686120	High security ring	HSR	n/a	<b>0.051</b>
686101	Limiting pin for remote adjuster	LR	11x9x4	<b>0.001</b>
686032	TRV body FM Cr	VB1290-4	15x1/2xR1/2	<b>0.940</b>
686033	TRV FM Cr	VB1290-4	22x3/4xR3/4	<b>1.398</b>
686082	TRV body FM Cr	VB1290-4P	15x1/2xR1/2	<b>0.886</b>
686030	TRV body FM Cr	VB1390-4	15x1/2xR1/2	<b>0.929</b>
686031	TRV body FM Cr	VB1390-4	22x3/4xR3/4	<b>1.391</b>
686080	TRV body FM Cr	VB1390-4P	15x1/2xR1/2	<b>0.921</b>
686081	TRV body FM Cr	VB1390-4P	22x3/4xR3/4	<b>1.382</b>
686034	TRV body FM Cr	VB1490-4	15x1/2xR1/2	<b>1.015</b>
686035	TRV body FM Cr	VB1490-4	22x3/4xR3/4	<b>1.505</b>
686084	TRV body FM Cr	VB1490-4P	15x1/2xR1/2	<b>1.007</b>
686085	TRV body FM Cr	VB1490-4P	22x3/4xR3/4	<b>1.496</b>

## decorative radiator valves

This offering from Pegler Terrier combines the quality and reliability of the highly respected Pegler Terrier brand but with a choice of styles to suit a range of traditional and modern radiator types.

Available as thermostatic and manual radiator valves – the ‘A’ rated TELL approved thermostatic range comes with a choice of three complimentary finishes. The manual radiator valves are available in angle and straight pattern bodies allowing complete flexibility.

Approved to BS2767-10, ensuring durability, and fitted with a double O-ring seal for long life. Pegler’s investment in advanced manufacturing techniques to compliment the traditional skills of the workforce has achieved BS EN ISO 9002 (BS 5750) accreditation.

code	name	type	size	total embodied carbon (kgCO <sub>2</sub> e)*
601200	TRV WH and LS (pack) FM Cr	367TRVCPLS	15xR <sup>1</sup> / <sub>2</sub>	<b>1.521</b>
602201	TRV and LS (pack) FM Cr	368TRVCPLSSTR	10xR <sup>1</sup> / <sub>2</sub>	<b>1.816</b>
602200	TRV and LS (pack) FM Cr	368TRVCPLSSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>1.768</b>
632210	TRV towel rail FM Cr	368TRVCPSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>0.985</b>
632205	LS towel rail FM Cr	TDECCPLS	15xR <sup>1</sup> / <sub>2</sub>	<b>0.673</b>
632215	LS towel rail FM Cr	TDECCPLSSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>0.783</b>
632320	TRV (anthracite) FM Cr	TDECTRV	15xR <sup>1</sup> / <sub>2</sub>	<b>1.012</b>
632327	TRV (mixed) FM Cr	TDECTRV	15xR <sup>1</sup> / <sub>2</sub>	<b>1.012</b>
632341	TRV and LS clam (anthracite) FM Cr	TDECTRVCLAM	15xR <sup>1</sup> / <sub>2</sub>	<b>1.686</b>
632344	TRV and LS clam (mixed) FM Cr	TDECTRVCLAM	15xR <sup>1</sup> / <sub>2</sub>	<b>1.686</b>
632347	TRV and LS clam (white) FM Cr	TDECTRVCLAM	15xR <sup>1</sup> / <sub>2</sub>	<b>1.686</b>
632348	TRV and LS clam (white)FM Cr	TDECTRVCLAM	15xR <sup>1</sup> / <sub>2</sub>	<b>1.878</b>
632331	TRV and LS (mixed) (pack) FM Cr	TDECTRVCPLSSTR	10xR <sup>1</sup> / <sub>2</sub>	<b>1.933</b>
632323	TRV and LS (anthracite) (pack) FM Cr	TDECTRVCPLSSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>1.878</b>
632330	TRV and LS (mixed) (pack) FM Cr	TDECTRVCPLSSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>1.878</b>
632335	TRV and LS (white) (pack) FM Cr	TDECTRVCPLSSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>1.878</b>
632322	TRV and LS (anthracite) FM Cr	TDECTRVLS	15xR <sup>1</sup> / <sub>2</sub>	<b>1.686</b>
632329	TRV and LS (mixed) FM Cr	TDECTRVLS	15xR <sup>1</sup> / <sub>2</sub>	<b>1.686</b>
632334	TRV and LS (white) FM Cr	TDECTRVLS	15xR <sup>1</sup> / <sub>2</sub>	<b>1.686</b>
632321	TRV (anthracite) FM Cr	TDECTRVSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>1.095</b>
632328	TRV (mixed) FM Cr	TDECTRVSTR	15xR <sup>1</sup> / <sub>2</sub>	<b>1.095</b>

\* Embodied carbon calculated following ‘Basic’ calculation method described in CIBSE (2021) Embodied carbon in building services: a calculation methodology CIBSE TM65: 2021 (Hampshire: Hobbs the Printers Ltd) using CIBSE (2022) Embodied Carbon Calculator TM65 Digital Tool beta version 1.1 January 2022 (London: Chartered Institution of Building Services Engineers)