

embodied carbon declaration

EC0003-E: 03/23

embodied carbon declaration for pegler valve resiflow

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 Valve – ResiFlow

The Pegler ResiFlow valve is a unique prefabricated utility array with direct function of providing potable water supply into multi occupancy dwellings.

The primary function is to maintain system operating requirements whilst allowing a single point for maintenance by providing isolation, pressure reduction, access to gauge and meter visibility.

Revision	Notes	Date
1.0	/	06/09/22
1.1	Added missing item (5A3033)	07/09/22
1.2	Updated data with more detailed material breakdowns of brass.	16/11/22
1.3	Changed name "pegler valve prefabricated utility array" to "pegler valve resiflow"	21/02/23
1.4	Removed pegler logo from top right	15/03/23

valves

code	name	type	size	total embodied carbon (kgCO ₂ e)*
5A3001	ResiFlow valve mf	RES1	¾	9.861
5A3002	ResiFlow valve mf	RES1	1x1	9.608
5A3021	ResiFlow valve ff	RES2	¾	13.672
5A3022	ResiFlow valve ff	RES2	1x1	13.159

accessories

code	name	type	size	total embodied carbon (kgCO ₂ e)*
5A3033	A class adapter	RSAD	NA	1.219
5A3034	T handle	RSTH	NA	1.109
5A3035	Cartridge PRV	RSCART	NA	0.534
5A3036	Check valve insert	RSCHK	NA	0.062
5A3037	Union seals	RSUNSL	NA	0.024

* 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)