

# Hynds Concrete Pipe Carbon Footprint Guide

To assist our customers with their sustainability reporting, we have put together the following quick reference tables with our products' carbon footprints. The carbon footprints give the Global Warming Potential (GWP-t) for modules A1-A3 (i.e. cradle-to-gate), taken directly from our externally verified Environmental Product Declarations (EPDs).

Included in the following tables are the values for the Hynds LC range, which combines all the benefits of our industry-leading standard product ranges with a reduced carbon footprint. The carbon reductions are achieved through increased use of lower carbon footprint raw materials and components. For more information on the Hynds LC range, use the link at the bottom of this page.

For more information on the life cycle analysis used to calculate these numbers, please reference the relevant EPDs using the links below each table and the letters from thinkstep-anz at the end of this document.



## Pinnacle Class 2 (North Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Pinnacle	Pinnacle LC	Pinnacle	Pinnacle LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>225</b>	38	38	19	19	225	295	35	2078
<b>300</b>	61	61	24	24	300	370	35	2578
<b>375</b>	74	74	30	30	375	445	35	2578
<b>450</b>	103	103	41	41	450	530	40	2592
<b>525</b>	150	119	60	48	525	633	54	2600
<b>600</b>	177	141	71	56	600	715	58	2600
<b>675</b>	196	150	78	60	675	779	52	2600
<b>750</b>	227	173	91	69	750	860	55	2600
<b>825</b>	275	217	110	87	825	955	65	2600
<b>900</b>	319	240	128	96	900	1026	63	2600
<b>1050</b>	405	324	162	130	1050	1202	76	2606
<b>1200</b>	498	390	199	156	1200	1362	81	2606
<b>1350</b>	599	462	240	185	1350	1520	85	2606
<b>1500</b>	850	694	340	278	1500	1740	120	2617
<b>1650</b>	947	739	379	296	1650	1870	110	2617
<b>1800</b>	1103	869	441	348	1800	2040	120	2617
<b>1950</b>	1799	1438	720	575	1950	2350	200	2622
<b>2100</b>	2040	1625	816	650	2100	2520	210	2623



## Pinnacle Class 4 (North Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Pinnacle	Pinnacle LC	Pinnacle	Pinnacle LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>225</b>	38	38	19	19	225	295	35	2078
<b>300</b>	61	61	24	24	300	370	0	2578
<b>375</b>	74	74	30	30	375	445	35	2578
<b>450</b>	103	103	41	41	450	530	40	2592
<b>525</b>	150	119	60	48	525	633	54	2600
<b>600</b>	177	141	71	56	600	715	58	2600
<b>675</b>	253	175	101	70	675	789	57	2600
<b>750</b>	286	204	114	82	750	872	61	2600
<b>825</b>	326	235	130	94	825	955	65	2600
<b>900</b>	368	283	147	113	900	1056	78	2600
<b>1050</b>	467	359	187	144	1050	1202	76	2606
<b>1200</b>	573	447	229	179	1200	1372	86	2606
<b>1350</b>	680	519	272	208	1350	1530	90	2606
<b>1500</b>	1036	763	414	305	1500	1740	120	2617
<b>1650</b>	1207	1031	483	412	1650	1900	125	2617
<b>1800</b>	1401	1200	560	480	1800	2070	135	2617
<b>1950</b>	1941	1490	776	596	1950	2350	200	2622
<b>2100</b>	2086	1642	834	657	2100	2520	210	2623



## PinnacleX Class 2 (North Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Pinnacle	Pinnacle LC	Pinnacle	Pinnacle LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>525</b>	170	113	45	68	525	640	58	2600
<b>600</b>	212	137	55	85	600	720	60	2600
<b>675</b>	280	176	70	112	675	821	73	2600
<b>750</b>	357	217	87	143	750	906	78	2600
<b>900</b>	452	274	110	181	900	1070	85	2600
<b>1050</b>	596	358	143	238	1050	1236	93	2606



## PinnacleX Class 4 (North Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Pinnacle	Pinnacle LC	Pinnacle	Pinnacle LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>525</b>	170	113	45	68	525	640	58	2600
<b>600</b>	212	137	55	85	600	720	60	2600
<b>675</b>	280	176	70	112	675	821	73	2600
<b>750</b>	357	217	87	143	750	906	78	2600
<b>900</b>	452	274	110	181	900	1070	85	2600
<b>1050</b>	596	358	143	238	1050	1236	93	2606



## Hyspec Class 2 (South Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Hyspec	Hyspec LC	Hyspec	Hyspec LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>225</b>	38	38	19	19	225	295	35	2078
<b>300</b>	50	36	20	14	302	367	33	2575
<b>375</b>	60	44	24	17	380	444	32	2580
<b>450</b>	94	67	38	27	457	534	39	2575
<b>525</b>	123	87	49	35	533	614	41	2590
<b>600</b>	146	102	58	41	610	699	45	2530
<b>675</b>	183	117	73	47	686	779	47	2530
<b>750</b>	212	147	85	59	762	864	51	2550
<b>825</b>	224	158	90	63	838	944	53	2555
<b>900</b>	292	208	117	83	914	1039	63	2580
<b>1050</b>	402	290	161	116	1067	1218	76	2597
<b>1200</b>	474	337	190	135	1219	1371	76	2597
<b>1350</b>	531	377	212	151	1372	1524	76	2603
<b>1600</b>	749	496	300	198	1590	1753	82	2621
<b>1800</b>	902	610	361	244	1830	2005	88	2621



## Hyspec Class 4 (South Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Hyspec	Hyspec LC	Hyspec	Hyspec LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>225</b>	38	38	19	19	225	295	35	2078
<b>300</b>	59	39	24	16	302	367	33	2575
<b>375</b>	67	46	27	18	380	444	32	2580
<b>450</b>	112	72	45	29	457	534	39	2575
<b>525</b>	152	91	61	36	533	614	41	2590
<b>600</b>	171	120	68	48	590	699	55	2530
<b>675</b>	216	145	86	58	666	779	57	2530
<b>750</b>	272	180	109	72	762	864	51	2550
<b>825</b>	255	169	102	68	838	944	53	2555
<b>900</b>	366	237	146	95	914	1039	63	2580
<b>1050</b>	462	311	185	124	1067	1218	76	2597
<b>1200</b>	571	392	228	157	1199	1371	86	2597
<b>1350</b>	632	434	253	174	1352	1524	86	2603
<b>1600</b>	862	607	345	243	1550	1753	102	2621
<b>1800</b>	1144	823	458	329	1750	2005	128	2621



## Hyspec Class 6 (South Island)

GWP/pipe (kg CO2eq)			GWP/m (kg CO2eq)		Dimensions (mm)			
DN	Hyspec	Hyspec LC	Hyspec	Hyspec LC	Barrel Internal Diameter	Barrel External Diameter	Wall Thickness	Overall length
<b>375</b>	100	69	40	28	340	444	52	2580
<b>450</b>	139	96	56	38	417	534	59	2575
<b>525</b>	165	116	66	46	493	614	61	2590
<b>600</b>	202	139	81	56	570	699	65	2530
<b>675</b>	258	175	103	70	636	779	72	2530
<b>750</b>	295	198	118	79	722	864	71	2550
<b>825</b>	397	229	156	90	798	944	73	2555
<b>900</b>	440	302	176	121	854	1039	93	2580
<b>1050</b>	537	377	215	151	1007	1218	106	2597
<b>1200</b>	637	439	255	176	1169	1371	101	2597
<b>1350</b>	723	495	289	198	1322	1524	101	2603
<b>1800</b>	1434	876	574	350	1730	2005	138	2621



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## Hynds Pipe Systems Ltd

Jackson MacFarlane | Group Sustainability Manager

100 Francella Street  
Bromley, Christchurch 8062  
New Zealand

19 January 2026

Dear Jackson,

I confirm that thinkstep-anz was engaged by Hynds Pipe Systems Ltd to support the preparation and publication of Environmental Product Declarations (EPDs) for reinforced concrete pipes and related products at Hynds' Pōkeno site. The EPDs were published under the EPD Australasia programme and are (EPD-IES-):

0016094:001, 0016095:001, 0016096:001, 0016097:001, 0023132:001, 0023133:001, 0023134:001, 0023135:001, 0023136:001, 0023137:001, 0023138:001, 0023139:001, 0023140:001, 0023141:001, 0023142:001.

The EPDs with registration numbers ending in 94-97 were verified by Rob Rouwette (start2see Pty Ltd) and published on 14 November 2024. The EPDs with registration numbers ending in 32-42 were verified by Claudia A. Peña (PINDA LCT SpA) and published on 17 June 2025.

Hynds created an internal calculator to produce LCA results for reinforced concrete pipes and products at Pōkeno. This tool is used by Hynds to calculate the environmental credentials of project-specific low-carbon concrete products, enabling a self-declaration of their environmental performance.

Although the calculator itself wasn't peer-reviewed, the LCA outcomes it generated were independently verified during EPD checks. thinkstep-anz reviewed the calculator's application to ensure GWP-total results matched the verified EPD data for Pōkeno. Accordingly, thinkstep-anz concludes that:

- The methods used to carry out the LCA are consistent with ISO 14040, ISO 14044, EN 15804:2012+A2:2019/AC:2021, PCR 2019:14 Construction Products v1.3.3, and c-PCR-003 Concrete and concrete elements (EN 16757:2022) version 2023-01-02;
- The methods used to carry out the LCA are scientifically and technically valid;
- The data used are appropriate;
- The data sources used were appropriate, appeared to be generally reliable and reasonable in relation to the goal of the study;
- The calculations and assumptions employed were generally clearly and carefully described;
- The GWP-total results are of equivalent quality to those reported in the published EPDs listed above.

Kind regards,

**Gustavo Moraga**  
Senior Sustainability Specialist

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19 January 2026

Dear Jackson,

I confirm that thinkstep-anz was engaged by Hynds Pipe Systems Ltd to support the preparation and publication of Environmental Product Declarations (EPDs) for reinforced concrete pipes and related products at Hynds' Christchurch site. The EPDs were published under the EPD Australasia programme and are (EPD-IES-):

0023121:001, 0023122:001, 0023123:001, 0023124:001, 0023125:001, 0023126:001, 0023127:001, 0023128:001, 0023129:001, 0023130:001.

These EPDs were verified by Claudia A. Peña (PINDA LCT SpA) and published on 17 June 2025.

Hynds created an internal calculator to produce LCA results for reinforced concrete pipes and products at Christchurch. This tool is used by Hynds to calculate the environmental credentials of project-specific low-carbon concrete products, enabling a self-declaration of their environmental performance.

Although the calculator itself wasn't peer-reviewed, the LCA outcomes it generated were independently verified during EPD checks. thinkstep-anz reviewed the calculator's application to ensure GWP-total results matched the verified EPD data for Christchurch. Accordingly, thinkstep-anz concludes that:

- The methods used to carry out the LCA are consistent with ISO 14040, ISO 14044, EN 15804:2012+A2:2019/AC:2021, PCR 2019:14 Construction Products v1.3.3, c-PCR-003 Concrete and concrete elements (EN 16757:2022) version 2023-01-02;
- The methods used to carry out the LCA are scientifically and technically valid;
- The data used are appropriate;
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