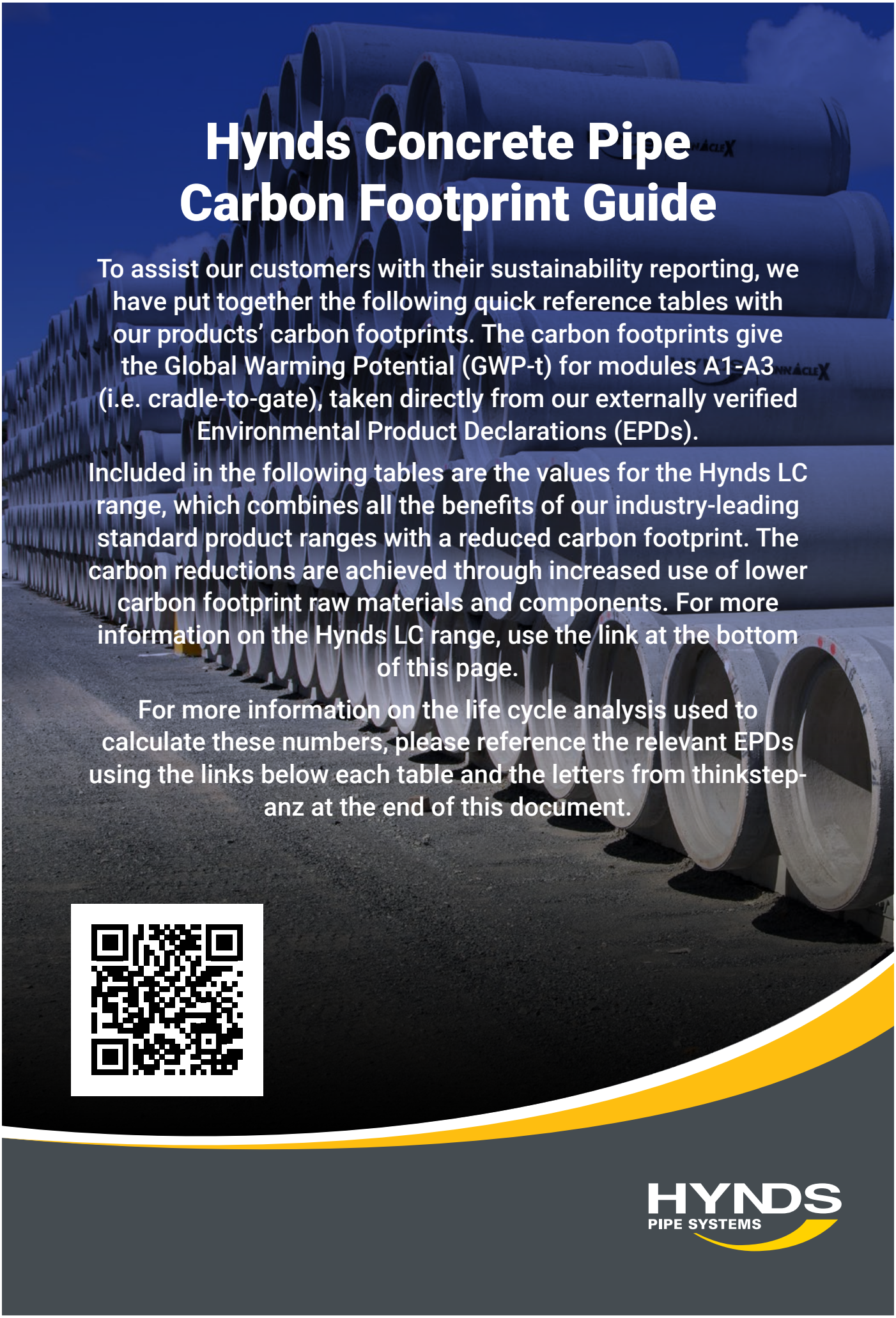

Hynds Concrete Pipe Carbon Footprint Guide

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.

HYNDS
PIPE SYSTEMS

Pinnacle Class 2 (North Island)

GWP/pipe (kg CO2eq)				GWP/m (kg CO2eq)		
DN	**Pinnacle**	**Pinnacle LC**		**DN**	**Pinnacle**	**Pinnacle LC**
225	38	38		**225**	19	19
300	61	61		**300**	24	24
375	74	74		**375**	30	30
450	103	103		**450**	41	41
525	150	119		**525**	60	48
600	177	141		**600**	71	56
675	196	150		**675**	78	60
750	227	173		**750**	91	69
825	275	217		**825**	110	87
900	319	240		**900**	128	96
1050	405	324		**1050**	162	130
1200	498	390		**1200**	199	156
1350	599	462		**1350**	240	185
1500	850	694		**1500**	340	278
1650	947	739		**1650**	379	296
1800	1103	869		**1800**	441	348
1950	1799	1438		**1950**	720	575
2100	2040	1625		**2100**	816	650

HYNDS
PIPE SYSTEMS

Pinnacle Class 4 (North Island)

GWP/pipe (kg CO2eq)				GWP/m (kg CO2eq)		
DN	**Pinnacle**	**Pinnacle LC**		**DN**	**Pinnacle**	**Pinnacle LC**
225	38	38		**225**	19	19
300	69	69		**300**	28	28
375	85	85		**375**	34	34
450	118	118		**450**	47	47
525	158	122		**525**	63	49
600	186	144		**600**	74	58
675	253	175		**675**	101	70
750	286	204		**750**	114	82
825	326	235		**825**	130	94
900	368	283		**900**	147	113
1050	467	359		**1050**	187	144
1200	573	447		**1200**	229	179
1350	680	519		**1350**	272	208
1500	1036	763		**1500**	414	305
1650	1207	1031		**1650**	483	412
1800	1401	1200		**1800**	560	480
1950	1941	1490		**1950**	776	596
2100	2086	1642		**2100**	834	657

HYNDS
PIPE SYSTEMS

PinnacleX Class 2 (North Island)

GWP/pipe (kg CO2eq)				GWP/m (kg CO2eq)		
DN	**Pinnacle**	**Pinnacle LC**		**DN**	**Pinnacle**	**Pinnacle LC**
525	170	113		**68**	45	68
600	212	137		**85**	55	85
675	280	176		**112**	70	112
750	357	217		**143**	87	143
900	452	274		**181**	110	181
1050	596	358		**238**	143	238

HYNDS PIPE SYSTEMS

PinnacleX Class 4 (North Island)

GWP/pipe (kg CO2eq)				GWP/m (kg CO2eq)		
DN	**Pinnacle**	**Pinnacle LC**		**DN**	**Pinnacle**	**Pinnacle LC**
525	170	113		**68**	45	68
600	212	137		**85**	55	85
675	280	176		**112**	70	112
750	358	217		**143**	87	143
900	452	274		**181**	110	181
1050	596	358		**238**	143	238

HYNDS PIPE SYSTEMS

Hyspec Class 2 (South Island)

GWP/pipe (kg CO2eq)				GWP/m (kg CO2eq)		
DN	**Hyspec**	**Hyspec LC**		**DN**	**Hyspec**	**Hyspec LC**
300	50	36		300	**20**	14
375	60	44		375	**24**	17
450	94	67		450	**38**	27
525	123	87		525	**49**	35
600	146	102		600	**58**	41
675	183	117		675	**73**	47
750	212	147		750	**85**	59
825	224	158		825	**90**	63
900	292	208		900	**117**	83
1050	402	290		1050	**161**	116
1200	474	337		1200	**190**	135
1350	531	377		1350	**212**	151
1600	749	496		1600	**300**	198
1800	902	610		1800	**361**	244

HYNDS
PIPE SYSTEMS

Hyspec Class 4 (South Island)

GWP/pipe (kg CO2eq)				GWP/m (kg CO2eq)		
DN	**Hyspec**	**Hyspec LC**		**DN**	**Hyspec**	**Hyspec LC**
300	59	39		300	**24**	16
375	67	46		375	**27**	18
450	112	72		450	**45**	29
525	152	91		525	**61**	36
600	171	120		600	**68**	48
675	216	145		675	**86**	58
750	272	180		750	**109**	72
825	255	169		825	**102**	68
900	366	237		900	**146**	95
1050	462	311		1050	**185**	124
1200	571	392		1200	**228**	157
1350	632	434		1350	**253**	174
1600	862	607		1600	**345**	243
1800	1144	823		1800	**458**	329

HYNDS PIPE SYSTEMS

Hyspec Class 6 (South Island)

GWP/pipe (kg CO2eq)					GWP/m (kg CO2eq)	
DN	**Hyspec**	**Hyspec LC**		**DN**	**Hyspec**	**Hyspec LC**
300	85	-		300	**34**	-
375	100	69		375	**40**	28
450	139	96		450	**56**	38
525	165	116		525	**66**	46
600	202	139		600	**81**	56
675	258	175		675	**103**	70
750	295	198		750	**118**	79
825	-	-		825	**-**	-
900	440	302		900	**176**	121
1050	537	377		1050	**215**	151
1200	637	439		1200	**255**	176
1350	723	494.5		1350	**289**	198
1600	964	681		1600	**386**	272
1800	-	-		1800	**-**	-

HYNDS PIPE SYSTEMS

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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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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' 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;
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Kind regards,

Gustavo Moraga
Senior Sustainability Specialist