BUILDING PRODUCT INFORMATION REQUIREMENTS

100mm Form Series copper downpipe length

Product information supplied by Continuous Group Limited under the Building (Building Product Information Requirements) Regulations 2022.

PRODUCT AND MANUFACTURER DETAILS

Product name	100mm Form Series copper downpipe length
Product identifier	100FSCU-COM
Manufacturer's name & address	Refer to Table 3 for Continuous Group branded manufacturing locations and/or supply.
Manufacturer's email address	cg@continuous.co.nz
Manufacturer's web address	www.continuous.co.nz
Place of manufacture	Aotearoa New Zealand
Warnings & bans	No

PRODUCT DESCRIPTION

100mm Form Series copper downpipe length is the main component used in the installation of the 100mm Form Series copper downpipe system. It is roll-formed and lock-seamed with a 100mm nominal diameter.

TABLE 1 — COMPONENT MATERIAL

COMPONENT	COMPONENT — MATERIAL
100mm Form Series downpipe	Manufactured from 0.55mm Copper — ¾ Hard (Grade C12200) that complies with BS EN 1172 as per E1/AS1 Table 4 and AS 1566

INSTALLATION REQUIREMENTS

Refer to 100mm Form Series copper downpipe system BPIR:100FSCU-SYS:2023.v2 for full system and installation details. Brackets are fixed 300mm from the dropper or first bend, then at a maximum of 2400mm centreline spacing.

TABLE 2 — PRODUCT DETAILS

PRODUCT DETAILS	SPECIFICATION
Inside diameter	99mm (±1mm)
Outside diameter	100.2mm (±1mm)
Cross-sectional capacity	7,690mm²
Sealed	No. Roll-formed lock-seamed downpipe — not sealed and not designed for head pressure. It cannot be used within the building envelope, for charged lines, or where water is collected into storage tanks. Where the water tank head height is higher than the top of the stormwater drain, use the Ezi-Flo Series instead.
Finish ranges	Copper (natural).
Exposure zones	Suitable in Zones B, C, D and E (all copper products).
Warranty	20-year material and perforation warranty (Zones B, C, D, E), provided maintenance conditions are met.

SCOPE OF USE

100mm Form Series copper downpipe length is an external downpipe designed to collect and channel water that runs out of a spouting or gutter system to a stormwater drain. It is intended that the product is positioned outside of the building envelope.

Limitations of the use of this building product

1. All Continuous Group downpipe systems should only be installed by a trade professional.
2. The product cannot be installed onto cladding with incompatible materials, and cannot run off onto incompatible materials. Material compatibility, contact and run-off to be adhered to in accordance with E2/AS1 Tables 20, 21 & 22. Stainless steel fixings and components are not compatible with these materials.
3. Roll-formed lock-seamed downpipe — not sealed and not designed for head pressure. It cannot be used within the building envelope, for charged lines, or where water is collected into storage tanks. Where the water tank head height is higher than the top of the stormwater drain, use the Ezi-Flo Series instead.
4. Timber fixing points are required for downpipe brackets where soft claddings are used (for example polystyrene with plaster).
5. Site locations must be evaluated in areas with high wind and/or salt and/or thermal/industrial atmospheric conditions. These locations may require specific engineering design (SED). Designers must consult metal supplier's information for specific durability requirements (reference E2/AS1 Table 20).

MAINTENANCE REQUIREMENTS

Refer to the Care and Maintenance Document listed under "Supporting documentation".

1. Inspection of the product is required every 3 months to check for build-up of residue and organic matter, and that the downpipe is draining freely.
2. Wash the exterior surface at a minimum interval of every 6 months, and immediately after inspection if required.

RELEVANT BUILDING CODE CLAUSES

COMPLIANCE / REGULATION	DETAIL
E1/AS1 Surface water	Sections 4.1.1 & 4.2.1
E2/AS1 External moisture	Tables 20, 21 & 22
AS/NZS 2179.1:2014	Sections 2.4.2, 3.5 and Table 3.3
NZBC F2	Section F2.3.1
B2/AS1	Table 1: Durability requirements of nominated building element

100mm Form Series copper downpipe length contributes to compliance by —

E1/AS1 section 4.1.1: "Materials for downpipes shall comply with the standards stated in Table 4."

Manufactured from copper sheet to BS EN 1172 and AS 1566, which is an acceptable material standard for downpipes.

E1/AS1 section 4.2.1: "Downpipes sized using Table 5 are acceptable. Other downpipes are acceptable provided their cross-sectional area is no less than that required by Table 5, and they permit passage of a 50mm diameter sphere."

The downpipe permits passage of a 50mm diameter sphere and its cross-sectional capacity is 7,690mm².

E2/AS1 Table 20: "Material selection."

The product is classified as "sheltered" and the material selection shown in Table 1 meets the requirements of Table 20 for exposure Zones B, C, D & E for "copper" materials.

AS/NZS 2179.1:2014 section 2.4.2: "Copper and copper alloys used for rainwater goods shall comply with AS 1566."

The downpipe is manufactured from copper that complies with AS 1566 as shown in Table 1.

AS/NZS 2179.1:2014 section 3.5 and Table 3.3: "The minimum base metal thickness (BMT) of vertical or graded downpipes of cross-sectional areas less than 75,000mm² shall be as specified in Table 3.3 or 3.4 as appropriate."

100FS copper downpipes meet the minimum BMT specification required as detailed in Table 3.3.

NZBC F2 hazardous building materials, F2.3.1:

The product, manufactured from copper as shown in Table 1, will meet the performance requirements of F2.3.1.

B2/AS1 Table 1:

Durability requirements of nominated building element — requires external downpipes to have a durability of 5 years. A 20-year material and perforation warranty is provided in exposure Zones B, C, D and E, provided the maintenance conditions are met.

SUPPORTING DOCUMENTATION

The following additional documentation supports the above statements.

DOCUMENT NAME	WEBLINK
Downpipe brochure & specification document	Continuous Group Downpipe Brochure and Specification 2021.pdf
Maintenance document	Continuous Group Maintenance Document.pdf
Material compatibility — material selection	Continuous Group Material Compatibility - Material Selection v1.pdf
Material compatibility in contact	Continuous Group Material Compatibility - Compatibility of materials in contact v1.pdf
Material compatibility subject to run-off	Continuous Group Material Compatibility - Compatibility of materials subject to run off v1.pdf
Warranty document	Continuous Group Warranties

TABLE 3 — MANUFACTURING &/OR SUPPLY LOCATIONS

LOCATION	COMPANY DETAILS
Continuous Group Northland	Northland Continuous Spouting Ltd. (NZBN 9429032689105) 2 Sammaree Place, Kerikeri northland@continuous.co.nz
Continuous Group Auckland	Continuous Spouting Auckland Ltd. (NZBN 9429034029862) 94 Takanini School Road, Takanini, Auckland auckland@continuous.co.nz
Continuous Group Waikato	Continuous Waikato and Bay of Plenty (NZBN 9429030330535) 141 Queens Street, Leamington, Cambridge waikato@continuous.co.nz
Continuous Group Bay of Plenty	Continuous Waikato and Bay of Plenty (NZBN 9429030330535) 31B Enterprise Drive, Papamoa, Tauranga bop@continuous.co.nz
Continuous Group Gisborne	Streetwise Spouting Ltd. (NZBN 9429042306276) 4 Leith Street, Gisborne gisborne@continuous.co.nz
Continuous Group Hawke's Bay	Rooftech Hawke's Bay Ltd. (NZBN 9429035443889) 2/7 Cadbury Road, Onekawa, Napier hawkes_bay@continuous.co.nz
Continuous Group Taranaki	Gutter Solutions Ltd. (NZBN 9429036739240) 46 Jellicoe Street, Whanganui East taranaki@continuous.co.nz
Continuous Group Whanganui / Manawatu	Gutter Solutions Ltd. (NZBN 9429036739240) 46 Jellicoe Street, Whanganui East manawatu@continuous.co.nz
Continuous Group Wellington / Kapiti Coast / Wairarapa	Wellington Continuous Spouting Ltd. (NZBN 9429043333974) Unit B, 1 Prosser Street, Porirua wellington@continuous.co.nz
Continuous Group Nelson / Marlborough / Buller	Continuous Spouting South Ltd. (NZBN 9429050107209) 7 Fuji Court, Stoke, Nelson nelson@continuous.co.nz
Continuous Group Westland	Continuous Spouting South Ltd. (NZBN 9429050107209) 51-57 Revel Street, Hokitika westland@continuous.co.nz
Continuous Group Christchurch / North Canterbury	Continuous Spouting South Ltd. (NZBN 9429050107209) 16 Westland Place, Izone Industrial Estate, Rolleston canterbury@continuous.co.nz

LOCATION	COMPANY DETAILS
Continuous Group Mid / South Canterbury	Continuous Spouting South Ltd. (NZBN 9429050107209) Unit 5 / 9 Holmglen Street, Washdyke, Timaru canterbury@continuous.co.nz
Continuous Group Central Otago	Continuous Spouting South Ltd. (NZBN 9429050107209) 7 Connelly Way, Cromwell otago@continuous.co.nz
Continuous Group Coastal Otago	Continuous Spouting South Ltd. (NZBN 9429050107209) 8 Benson Close, Mosgiel otago@continuous.co.nz
Continuous Group Southland	Continuous Spouting South Ltd. (NZBN 9429050107209) 72 Leet Street, Invercargill southland@continuous.co.nz

Continuous Group are members of the NZ Metal Roofing Manufacturers Incorporated and the Roofing Association New Zealand.