

# METALCRAFT DOWNPIPES

## PURPOSE

Metalcraft Roofing supplies Metalcraft Downpipes for use as part of a roof water drainage system.

## EXPLANATION

Metalcraft Downpipes are fabricated from pre-coated steel supplied by NZ Steel. The protective coatings are designed to withstand NZ's exposure zones. Design and installation information is supplied by Metalcraft Roofing.

Metalcraft Downpipes are available in the following dimensions:

- › round 80 mm diameter
- › round 100 mm diameter
- › rectangular 55 mm x 75 mm
- › rectangular downpipe 95 mm x 130 mm

and manufactured from the following NZ Steel branded products:

- › Zinalume®
- › Colorsteel® Endura®
- › Colorsteel® Maxx®



## SCOPE AND LIMITATIONS OF USE

Scope	Limitations
<b>Location</b> In any wind zone or calculated design load. In all exposure zones defined in NZS 3604:2011.	<ul style="list-style-type: none"> <li>› In exposure Zone D only Colorsteel® Endura® or Colorsteel® Maxx® may be used.</li> <li>› For use in microclimatic considerations (as defined in paragraph 4.2.4) refer to Metalcraft Roofing for technical advice.</li> </ul>
On buildings any proximity to a relevant boundary.	
<b>Building</b> In conjunction with a primary structure and roof cladding system that complies with the NZ Building Code or where the designer and/or installer has established that the existing structure is suitable for the intended building work.	<ul style="list-style-type: none"> <li>› Fixings to be in accordance with E2/AS1 or specific engineering, where applicable.</li> </ul>

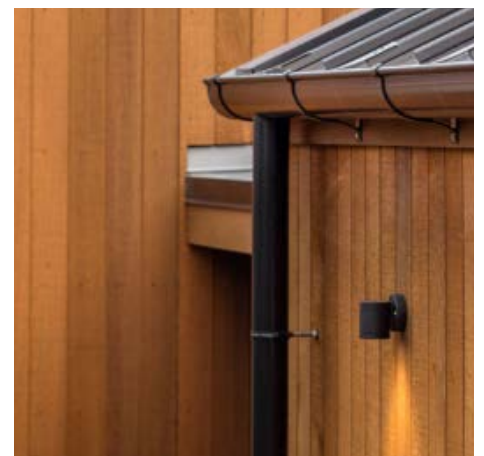
## NZ STEEL ASSURANCE

As the manufacturer of the steel, from which Metalcraft Downpipes are fabricated, NZ Steel provides assurance that the steel:

- › has been manufactured in accordance with AS 1397:2001
- › is coated in accordance with AS/NZS 2728:2013 or galvanised in accordance with AS/NZS 2312.2:2014.

NZ Steel has established an Environmental Management System certified to ISO 14001.

For more information on the specific exposure zones and environmental impacts of the product refer to [www.colorsteel.co.nz](http://www.colorsteel.co.nz).



## PERFORMANCE CLAIMS

If designed, installed and maintained in accordance with all Metalcraft Roofing requirements, the Metalcraft Downpipes will comply with or contribute to compliance with the following performance claims:

NZ Building Code clauses	BASIS OF COMPLIANCE <sup>1</sup>	
	Compliance statement	Demonstrated by
<b>B1 Structure</b> B1.3.1 B1.3.2 B1.3.3 (a, b, c, j)	ACCEPTABLE SOLUTION B1/AS1	<ul style="list-style-type: none"> <li>› Manufactured in accordance with AS/NZS 1397:2011.</li> </ul>
<b>B2 Durability</b> B2.3.1 (a)	ACCEPTABLE SOLUTION B2/AS1	<ul style="list-style-type: none"> <li>› Coated in accordance with AS/NZS 2728:2013 (cited in E2/AS1).</li> </ul>
<b>C3 Fire Affecting Areas Beyond the Fire Source</b> C3.4 (a) C3.7 (a)	ACCEPTABLE SOLUTION C/AS1, C/AS2 1st edition June 2019	<ul style="list-style-type: none"> <li>› Steel is non-combustible (refer paragraph 5.8 C/AS2 1st edition June 2019).</li> <li>› Tested to ISO 5660 BRANZ (FH 6102-TT, dated 3/1/2017) (Material Group 1-S).</li> <li>› BRANZ is accredited to perform ISO5660 test.</li> </ul>
<b>E1 Surface Water</b> E1.3.3 (a)	ACCEPTABLE SOLUTION E1/AS1	<ul style="list-style-type: none"> <li>› Materials, size and configuration in accordance with E1/AS1 section 4.</li> <li>› In accordance with NZ Metal Roof Manufacturer's (NZMRM): Code of Practice (v3.0).</li> </ul>
<b>E2 External Moisture</b> E2.3.1 E2.3.2 E2.3.7 (a, b, c)	ACCEPTABLE SOLUTIONS E2/AS1	<ul style="list-style-type: none"> <li>› Materials as specified in para 4.1 and down pipe sectional area in accordance with table 5, E2/AS1.</li> <li>› In accordance with NZ Metal Roof Manufacturer's (NZMRM): Code of Practice (v3.0).</li> </ul>
<b>F2 Hazardous Building Materials</b> F2.3.1	ALTERNATIVE SOLUTION	<ul style="list-style-type: none"> <li>› Coating systems are inert once dry.</li> <li>› Colorsteel® safety data sheets.</li> </ul>

1. The Compliance Statement is the pass holder's statement that they have met their obligations under s14G(2) of the Building Act 2004.

Other Performance Statements	BASIS OF STATEMENT	
	Performance statement	Demonstrated by
Metalcraft Downpipes will not contaminate potable water.	AS/NZS 4020:2005	<ul style="list-style-type: none"> <li>› Claimed by NZ Steel.</li> <li>› BRANZ statement refer: <a href="http://www.level.org.nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/">http://www.level.org.nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/</a>.</li> </ul>

## SOURCES OF INFORMATION

- › AS/NZS 3604:2011. *Timber framed buildings.*
- › AS/NZS 1397:2001. *Steel sheet and strip - Hot-dip zinc coated or aluminium/zinc coated.*
- › BRANZ <http://www.level.org.nz/water/water-supply/mains-or-rainwater/harvesting-rainwater/>
- › NZ Metal Roof Manufacturer's (NZMRM): *Code of Practice (v3.0).*
- › NZ Steel Technical Bulletin (August 2016). *Fire Testing of Coated Steel Product.*

**VERSION:** .....  
**DATE:** .....

*Note: Uncontrolled in printed format.*

**NAME:** Frances Charles  
 .....

**POSITION:** National Sales & Marketing Mgr  
 .....

Signed on behalf of Metalcraft Roofing:

By signing this pass™ the signatory confirms that, in respect of the subject of this pass™, the company has met their s14G obligations under the Building Act 2004.



**For more information visit [www.metalcraftgroup.co.nz](http://www.metalcraftgroup.co.nz).**