

# Drop In Anchor

## BPIR Declaration

Version: v1

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### Designated building product: Class 1

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### Declaration

Wurth New Zealand Ltd has provided this declaration to satisfy the provisions of Schedule 1(d) of the Building (Building Product Information Requirements) Regulations 2022.

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### Product/system

Name	Drop In Anchor
Line	
Identifier	Drop In Anchor

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### Description

Female thread anchor with metric thread for economical anchoring in concrete

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### Scope of use

Drop-in anchors are designed for use in concrete, where they provide a flush-mounted anchorage point.

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### Conditions of use

Application area Individual fixing point: Normal weight concrete C20/25 to C50/60 (uncracked concrete)

Anchors in a redundant non-structural system: Anchorage of non-load-bearing systems (M6-M16, cracked and uncracked concrete)

E.g. threaded rods, metal structures, metal profiles, lattices, cable conduits, pipes, mounting rails etc.

For use in concrete < C20/25 and pressure-resistant natural stone (without approval)

Zinc coated may only be used in dry indoor conditions

W-ED/A4 (stainless steel A4) can be used in dry indoor areas, outdoors (including in industrial atmospheres and close to the sea) or in wet rooms, provided that no particularly aggressive conditions are present

W-ED/HCR (HCR high corrosion-resistant steel) can be used in areas where there is a very high risk of corrosion (e.g. indoor swimming pool atmosphere, road tunnels, poorly ventilated car parks, or parts that are immersed in seawater or in coastal atmospheres)

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## Relevant building code clauses

**B1 Structure** – B1.3.1, B1.3.2, B1.3.3 (b, d, e, f, g, h, j, q), B1.3.4

**B2 Durability** – B2.3.1 (a)

**F2 Hazardous building materials** – F2.3.1

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## Contributions to compliance

### B1 - Structure

**Durability:** Drop-in anchors must be durable and capable of withstanding the environmental conditions they will be exposed to, including factors like corrosion resistance.

**Load Capacities:** They must have clearly defined load capacities, ensuring they can support the required loads without failure.

**Installation:** Proper installation using the correct setting tool is crucial for the structural integrity of the anchor.

### B2 - Durability

**Material Quality:** The materials used for drop-in anchors should be of high quality to ensure long-term performance and safety.

**Corrosion Protection:** Adequate corrosion protection is necessary to maintain the anchor's load-bearing capacity over its expected lifespan.

**Compliance with Standards:** Drop-in anchors should meet relevant standards and building codes to ensure they contribute to the overall durability of the structure.

## **F2 - Hazardous Building Materials**

**Non-toxic Materials:** The materials used in drop-in anchors should not be hazardous or release toxic substances over time.

**Safety in Use:** Anchors should be designed and installed in a way that minimizes the risk of injury to people during their use.

**Compliance with Health and Safety Regulations:** Manufacturers and installers must comply with health and safety regulations to prevent the use of hazardous building materials.

These contributions to compliance ensure that drop-in anchors are safe, reliable, and effective in their application, adhering to the New Zealand Building Code and contributing to the structural integrity and safety of buildings. Please note that specific products may have additional features or compliance details, so it's always best to consult the manufacturer's technical data and the local building code requirements for precise information.

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## **Supporting documentation**

The following additional documentation supports the above statements:

<b>Declaration of performance</b>	1	<a href="https://eshop.wurth.co.nz/is-bin/INTERSHOP.enfinity/WFS/3120-B1-Site/en_GB/-/NZD/ViewOfferDetail-GetDocument/090403006_ZLE03.pdf?DocumentId=C4D09898AA701EDD91AF9EAC1E22C88A&amp;ProductRefID=090403006%403120-B1&amp;MimeType=application%2Fpdf">https://eshop.wurth.co.nz/is-bin/INTERSHOP.enfinity/WFS/3120-B1-Site/en_GB/-/NZD/ViewOfferDetail-GetDocument/090403006_ZLE03.pdf?DocumentId=C4D09898AA701EDD91AF9EAC1E22C88A&amp;ProductRefID=090403006%403120-B1&amp;MimeType=application%2Fpdf</a>
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For further information supporting Drop In Anchor claims refer to our website.

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## **Contact details**

<b>Manufacture location</b>	Overseas
<b>Legal and trading name of manufacturer</b>	N/A
<b>Legal and trading name of importer</b>	Wurth New Zealand Ltd
<b>Importer address for service</b>	99 McLaughlins Road, Wiri Auckland 2104
<b>Importer website</b>	<a href="http://wurth.co.nz">wurth.co.nz</a>
<b>Importer NZBN</b>	9429039489333
<b>Importer email</b>	sales@wurth.co.nz
<b>Importer phone number</b>	0800683040

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**WURTH NEW ZEALAND LTD**  
99 McLaughlins Road, Wiri Auckland 2104 New Zealand  
0800683040 | [wurth.co.nz](http://wurth.co.nz)

# Appendix

Note: The below appendix includes information relating to BPIR Ready.

Publishing this information is not a requirement under BPIR. Its inclusion here is to provide a reference for how this BPIR summary was generated as well as to help summary creators understand the performance clauses suggested by BPIR Ready.

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## BPIR Ready selections

Category: Fixings and fasteners

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## Building code performance clauses

### B1 Structure

#### B1.3.1

*Buildings, building elements* and *sitework* shall have a low probability of rupturing, becoming unstable, losing equilibrium, or collapsing during *construction* or *alteration* and throughout their lives.

#### B1.3.2

*Buildings, building elements* and *sitework* shall have a low probability of causing loss of amenity through undue deformation, vibratory response, degradation, or other physical characteristics throughout their lives, or during *construction* or *alteration* when the *building* is in use.

#### B1.3.3

Account shall be taken of all physical conditions likely to affect the stability of *buildings, building elements* and *sitework*, including:

- (b) imposed gravity loads arising from use
- (d) earth pressure
- (e) water and other liquids
- (f) earthquake
- (g) snow
- (h) wind
- (j) impact
- (q) time dependent effects including creep and shrinkage

#### B1.3.4

Due allowances shall be made for:

- a. the consequences of failure,
- b. the intended use of the *building*,
- c. effects of uncertainties resulting from *construction* activities, or the sequence in which *construction* activities occur,
- d. variation in the properties of materials and the characteristics of the site, and
- e. accuracy limitations inherent in the methods used to predict the stability of *buildings*

## B2 Durability

#### B2.3.1

*Building elements* must, with only normal maintenance, continue to satisfy the performance requirements of this code for the lesser of the *specified intended life* of the *building*, if stated, or:

- (a) the life of the building, being not less than 50 years, if: those building elements (including floors, walls, and fixings) provide structural stability to the building, or those building elements are difficult to access or replace, or failure of those building elements to comply with the building code would go undetected during both normal use and maintenance of the building

## F2 Hazardous building materials

#### F2.3.1

The quantities of gas, liquid, radiation or solid particles emitted by materials used in the *construction* of *buildings*, shall not give rise to harmful concentrations at the surface of the material where the material is exposed, or in the atmosphere of any space.