

Wedge Anchor

BPIR Declaration

Version: v1

Designated building product: Class 1

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.

Product/system

Name	Wedge Anchor
Line	
Identifier	Wedge Anchor / Fixanchor

Description

Bolt anchor for high loads in cracked and non-cracked concrete.

Scope of use

Bolt anchor for high loads in cracked and non-cracked concrete.

High loads, small distance and edge distance Immediate load-bearing capacity, no waiting times Time-saving in-place installation Reduced effective anchorage depth Minimised drilling, time-saving Versatile applications

Conditions of use

Individual fixing point with approval

Standard concrete C20/25 to C50/60 (cracked and uncracked concrete, seismic performance category C1 and C2)

For the attachment of e.g. metal structures, metal profiles, brackets, base plates, supports, cable conduits, pipes, railings, wooden structures, roof beams, etc.

Individual fixing point without approval

For use in concrete < C20/25 and pressure-resistant natural stone

W-FAZ/S, W-FAZ PRO/S may only be used in dry indoor room conditions

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

Contributions to compliance

Clause B1 (Structure): Wedge anchors must be structurally sound to ensure they can adequately support the loads they will carry without failing. They should be made of materials and possess mechanical properties that meet the standards for structural integrity and safety.

Clause B2 (Durability): The durability of wedge anchors is essential for the long-term stability of the structures they are used in. They should be resistant to environmental conditions such as moisture and corrosion, ensuring they maintain their strength over time. B2 specifies minimum durability periods building elements must meet with only normal maintenance, being not less than 50, 15, or 5 years.

Clause F2 (Hazardous Building Materials): Wedge anchors should not contain materials that are hazardous to health. They must not release harmful substances into the environment during their service life, thus safeguarding people from potential exposure to toxic elements.

For detailed compliance information, it is recommended to refer to the official building codes and standards, which provide comprehensive guidelines on the use of wedge anchors in construction projects.

Supporting documentation

The following additional documentation supports the above statements:

ETA Assessment	1	https://eshop.wurth.co.nz/is-bin/INTERSHOP.enfinity/WFS/3120-B1-Site/en_GB/-/NZD/ViewOfferDetail-GetDocument/5928208050ZZL04.pdf?DocumentId=AE3C8C94DB021ED98AC2D90C1D71042D&ProductRefID=5928208050%403120-B1&MimeType=application%2Fpdf
Declaration of Performance		https://eshop.wurth.co.nz/is-bin/INTERSHOP.enfinity/WFS/3120-B1-Site/en_GB/-/NZD/ViewOfferDetail-GetDocument/5928208050ZLE02.pdf?DocumentId=C4D09898C2651EED8D853BC17C8105EE&ProductRefID=5928208050%403120-B1&MimeType=application%2Fpdf

For further information supporting Wedge Anchor claims refer to our website.

Contact details

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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.

BPIR Ready selections

Category: Fixings and fasteners

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.