

BUILDING CODE - DURABILITY

Standard Limited Warranty – Manufacturer's Statement of Compliance

Statements below are relevant to:

- ▶ The pipes designed, used, installed, and maintained in accordance with the requirements of AS/NZS 2566.1, AS/NZS 2566.2 and AS/NZS 2033.
- ▶ Hynds PKS civil pipes for gravity applications manufactured in conformity with AS/NZS 5065.
- ▶ Fabricated items are extrusion welded in accordance with DVS 2207-4.

New Zealand Building Code – Durability

- ▶ Clause B2: Durability (as applicable to the above listed pipes when correctly designed, used, installed, and maintained):
 - ▶ Clause B2.3.1(a): no less than 50 years when being difficult to access or replace.
 - ▶ Clause B2.3.1(b): no less than 15 years when being moderately difficult to access or replace.
 - ▶ Clause B2.3.1(c): no less than 5 years when being easy to access or replace, including any above ground applications.

Quality Assurance

- ▶ Pipe that complies with AS/NZS 5065 Standard, hold a Bureau Veritas license number (2978) to demonstrate compliance with.
- ▶ Quality Management System – Telarc Certificate No.:2461)

Limitations and Unsuitable Applications

Overall limitations:

- ▶ Performance properties and dimensions of the pipes are referenced at 20°C. Design stresses, both internal and external, must be adjusted according to the expected service temperature of pipe walls. Pipe system design shall consider expected dynamic stresses, expansion/contraction due to temperature variations. Pipes shall not be used at temperatures outside the limits established by the design and recommended for the intended application.
- ▶ Pipes not containing carbon black in accordance with AS/NZS 4131 and AS/NZS 5065 shall not be used in conditions of prolonged UV exposure not exceeding two years.
- ▶ Pipes shall not be used for transportation of or in conditions of external contact with automotive fuels, oils, synthetic hydrocarbons and other chemicals detrimental to pipe material at the expected service temperature.
- ▶ Pipes shall not be used for pumped pressure applications.
- ▶ Pipes should be protected against radiant heat that could raise its surface temperature above 60°C.
- ▶ Pipes shall not be used without correct design, storage and handling, installation and maintenance recommendations, when excessively damaged prior to or during installation.
- ▶ Durability requirements are not applicable in the events of fire, flood, cyclone, earthquake or other 'acts of God'.
- ▶ Durability requirements are not applicable to pipes subjected to incidental, consequential, special or indirect damages, alteration, accident, misuse, abuse or neglect.
- ▶ Durability requirements are not applicable to pipes or equivalent or provided (at no charge) as scrap.
- ▶ Pipe shall not be used in contact with aromatic and chlorinated hydrocarbons, ketones, esters and ethers.
- ▶ Pipe shall not be used, in below ground application (without added protection) where the depth of cover is less than:
 - ▶ 300mm where pipeline is not subject to vehicular loading
 - ▶ 450mm where pipeline is subject to vehicular loading not in roadways
 - ▶ 600mm where pipeline is subject to vehicular loading in sealed roadways
 - ▶ 750mm where pipeline is subject to vehicular loading under unsealed roadways
 - ▶ 750mm where pipes in embankment conditions or subject to construction equipment loading

New Zealand Building Code - Other

- ▶ Clause F2: Hazardous Building Materials.
Above listed pipes meet this requirement and do not present a health hazard to people when correctly handled and used.