

Part 5.3 Cavity masonry

5.3.1 Application

[New for 2022]

- (1) Part 5.3 applies subject to the limitations set out in H1D5(2)(c).
- (2) Part 5.3 need not be complied with if H1D5(2)(a) or (b) are complied with.

5.3.2 Height of wall limitation

[New for 2022]

Cavity masonry walls must not be greater than 8.5 m in height when measured above the adjacent *finished ground level*.

5.3.3 External walls

[New for 2022]

- (1) Cavity masonry walls must comply with the relevant provisions of this Part and Parts 5.6 and 5.7, and be constructed as follows:
 - (a) The height of the wall between *lateral supports* (floor or ceiling or roof diaphragm) must be not more than 3 m.
 - (b) Cavity masonry walls subject to wind loads must be supported by masonry cross walls or by steel mullions complying with (3).
 - (c) Masonry cross walls must be—
 - (i) not less than 2 m in length; and
 - (ii) at not more than 5.1 m centres where the length of the cavity wall being supported does not contain any opening or control joint; and
 - (iii) not more than 2.5 m from the edge of a control joint in the length of the cavity wall being supported; and
 - (iv) not more than a distance from the edge of an opening in the length of the cavity wall being supported as stated in Table 5.3.3; and
 - (v) located at both edges of openings of width greater than 2.7 m; and
 - (vi) directly connected to the internal leaf of the cavity wall being supported using—
 - (A) properly bonded units with at least 90 mm engagement on each side of the interface with the selected bond pattern but not less than every fourth course of masonry; or
 - (B) medium duty Type A cavity wall ties in aligning mortar bed joints at a vertical spacing of not more than 300 mm; and
 - (vii) connected by a floor or ceiling diaphragm to the wall being supported where floor or ceiling connections are designed in accordance with AS/NZS 4600, AS 1720.1 or AS 3600, as appropriate.
 - (2) Cavity masonry walls must be constructed of two leaves, with each leaf not less than 90 mm wide.
 - (3) In cavity masonry construction, a cavity must be provided between the inner and outer masonry leaves as follows:
 - (a) The cavity must be not less than 35 mm and not more than 75 mm in width, in accordance with 5.7.2.
 - (b) Except for steel mullions, the minimum cavity width specified in (a) is to be maintained between the outer masonry leaf and any insulation or services located in the cavity.
 - (c) Where steel mullions are located in a cavity as permitted by (b), a vertical *damp-proof course* must be placed between the outer masonry leaf and the mullion to prevent moisture penetration.