

## Masonry

in the ground or in the atmosphere. All masonry products manufactured are classified by their durability. The majority of uses will require either an Exposure class (Exp) product or a General Purpose (GP) product.

### 5.6.3 Mortar mixes

[2019: 3.3.5.4]

Mortar used for masonry construction must comply with AS 3700 or AS 4773 except that the mortar may be mixed by volume in the proportions stated in [Table 5.6.3](#).

**Table 5.6.3: Acceptable mortar mixes**

Masonry unit exposure classification	Mortar mix by volume <sup>Note 1</sup> Cement: lime: sand	
	General use	Suitable for concrete masonry <sup>Note 2</sup>
Protected	1:2:9	1:0:5
General purpose	1:1:6	1:0:5
Exposure class	1:0.5:4.5	1:0:4.2

#### Table Notes

- (1) Additives may be used provided they comply with the appropriate specified rate.  
 (2) Mortar mixes for masonry require the use of methyl cellulose water thickener.

### 5.6.4 Mortar joints

[2019: 3.3.5.5]

- (1) Unless otherwise specified, masonry bed and perpend joints must have a nominal thickness of 10 mm.
- (2) Raked joints are not to be used in saline environments or areas subject to heavy industrial airborne pollution.
- (3) Where raked joints are used the depth of raking must not be—
  - (a) closer than 5 mm to any perforation in cored unit masonry or 20 mm in hollow unit masonry; or
  - (b) more than 5 mm for masonry units at least 90 mm wide; or
  - (c) more than 10 mm for masonry units at least 110 mm wide.

### 5.6.5 Wall ties

[2019: 3.3.5.10]

Masonry wall ties must—

- (a) comply with AS 2699.1 and—
  - (i) for masonry veneer walls be—
    - (A) a minimum of light duty veneer ties in areas where the *design wind speed* is not more than N2; and
    - (B) a minimum of medium duty veneer ties in areas where the *design wind speed* is more than N2; and
  - (ii) for *cavity* masonry walls be—
    - (A) a minimum of light duty *cavity* ties in areas where the *design wind speed* is N1; and
    - (B) a minimum of medium duty *cavity* ties in areas where the *design wind speed* is more than N1; and
  - (iii) where non-*engaged piers* are provided, piers must be tied to walls using medium duty ties; and
  - (iv) for monolithic or solid masonry construction be a minimum of medium duty ties; and
- (b) be spaced and fixed in accordance with [Tables 5.6.5a](#), [5.6.5b](#) and [5.6.5c](#) (see also [Figures 5.6.5a](#) and [5.6.5b](#)); and
- (c) be protected against corrosion in accordance with [Table 5.6.5d](#).