

TILE INSTALLED ON INTERIOR/EXTERIOR STAIRS

318S-2019-2021

(A) STEEL PAN

- Steel rod and reinforcing mesh approximately 13 mm above pan bottom. Application as per Detail 309F-2019-2021 but omit cleavage membrane or vapour retarder.

(B) STEEL STAIRS

- Metal lath fastened to metal stair on steel treads and risers by tie wires or spot welded by steel fabricator. Application as per Detail 308W-2019-2021 but omit cleavage membrane or vapour retarder.

(C) WOOD STAIRS - INTERIOR ONLY

- Nail galvanized metal lath to wood substrate over cleavage membrane (vapour retarder). Install mortar bed and tile according to Detail 308W-2019-2021 but increase thickness of mortar bed on horizontal surface to a minimum of 32 mm.

- (D) Application of materials as per Detail 310F-2019-2021 (A) for treads and 302W-2019-2021 for risers.

- (E) Application of material as per Detail 303W-2019-2021 and 311F-2019-2021 but apply slight levelling coat to substrate if required and cure a minimum of 24 hours before application of tile.

LIMITATIONS

- Organic adhesives are not acceptable for these applications.

OTHER CONSIDERATIONS

- For easy maintenance, use cove base tile or cove movement profile at junction of riser and tread. Wood stairs not recommended for exterior applications. On exterior stairs, a slight slope on treads is preferred to provide drainage. Provide tactile surface prior to stairs where required for visually handicapped. Where required, use a 51 mm strip of contrasting colour at edge of first and last step.
- Precast terrazzo and natural stone tile may be used providing that slip resistant properties are acceptable.
- For detail B and C, mortar bed may be installed over fresh scratch coat.
- Prefabricated stair nosings or carborundum inserts should be used for increased safety precautions.
- Slip resistance for stair treads must be a minimum of 0.6 wet or dry.
- Tile used in exterior applications must be frost resistant. Consult with manufacturer for DCOF recommendations.
- To minimize the potential for cracking use a sealant or prefabricated movement joint at the junction between the riser and tread.
- For exterior applications a waterproofing membrane is recommended. Follow manufacturer's recommendations (ANSI A118.10).
- Stair risers to be not less than 125 mm and not more than 180 mm.
- Treads & risers must have uniform rise and run in any one flight.
- Treads must have run not less than 280 mm between successive steps.
- Stair nosing cannot be canter levered over the riser and edge. The leading edge of the stair tread shall have either a radius or a bevel between 8 mm and 13 mm in horizontal dimensions.
- Refer to Notes For The Professional and 301MJ-2019-2021.
- For Detail A, B, D, and E use sufficient bond coat to ensure a minimum 95% contact on exterior installations and wet areas (it may be necessary to back-butter the tile in order to meet this requirement), and minimum 80% on interior areas.
- For Detail C use sufficient bond coat to ensure minimum 80% contact.

