

Title	Describe and construct interlocking pavers for civil construction works		
Level	3	Credits	18

Purpose	People credited with this unit standard are able to: <ul style="list-style-type: none"> – describe materials and equipment for interlocking pavers; – confirm job instructions; – prepare sub-base; – install edges to contain pavers; – lay pavers; and – embed pavers and clean up the worksite.
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Classification	Infrastructure Works > Infrastructure Civil Works
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Available grade	Achieved
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Guidance Information

- 1 Evidence presented for assessment against this unit standard must be consistent with safe working practices and be in accordance with relevant legislative and industry requirements.
- 2 Legislation relevant to this unit standard include: Health and Safety at Work Act 2015; and all subsequent amendments and replacements.
- 3 Definition
Industry requirements refer to relevant policies, processes, methodologies, industry codes of practice, site specific health and safety plans, standard operating procedures, site safety plans, quality plans, work plans, traffic management plans, contract work programmes, job safety analysis, safe work method statements, job instructions, manufacturer's requirements, contract specifications, manuals, procedural documents, Waka Kotahi New Zealand Transport Agency specifications and guidelines.

Outcomes and performance criteria

Outcome 1

Describe materials and equipment for interlocking pavers.

Performance criteria

- 1.1 Sub-base material, crusher dust, graded sand, and proprietary sand mixes and their use on pavements are described in terms of particle size and effective moisture content.
- 1.2 Paving equipment is described in terms of how it is used for interlocking pavers.
- Range may include but is not limited to – straightedge, side runners, screed rail, screed, bolster chisel, paving splitter, rubber hammer, short piece of timber, and cobble cutter; evidence of four pieces of equipment is required.

Outcome 2

Confirm job instructions.

Performance criteria

- 2.1 On-site check is carried out to confirm contract specifications and quality plan.
- Range check proposed loadings, colour.
- 2.2 Sub-base is checked for levels, cross-fall, bearing capacity, edge restraints, and drainage in accordance with contract specifications.
- 2.3 Site is assessed for constraints to determine choice of machine or hand laying of blocks.
- Range may include but is not limited to – physical obstructions, slopes, surface drainage, access to site for vehicles and pedestrians, available equipment; evidence of two constraints is required.
- 2.4 Type and thickness of paving block are confirmed.
- 2.5 Laying pattern and colour are confirmed.
- 2.6 Availability of sufficient material to complete contract is confirmed.

Outcome 3

Prepare sub-base.

Performance criteria

- 3.1 Personal protective equipment is selected, fitted, and worn in accordance with manufacturer's instructions.
- Range overalls, safety footwear, gloves, reflective vest, hearing protection, eye protection, hard hat.

- 3.2 Site is made secure for the safety of workers and the public.
Range regulatory road signs, cones, traffic control, safety barriers.
- 3.3 Worksite is set out in accordance with survey marks.
- 3.4 Finished level and fall of paved surface is defined in accordance with contract specifications.
- 3.5 Sub-base and material interface levels are established.
Range base course, top course, bedding sand, paver.
- 3.6 Sub-base is compacted in layers taking particular care around services and in accordance with contract specifications.
- 3.7 Surface of sub-base profile, fall, and contour of final paving is completed in accordance with contract specifications.

Outcome 4

Install edges to contain pavers.

Performance criteria

- 4.1 Perimeter edges are established in accordance with contract specifications.
Range may include but is not limited to – kerb, nib, wall, step, fence, mowing strip, concrete apron, pre-formed block, soldier course; evidence of three perimeter edges is required.
- 4.2 Bedding material is selected.
- 4.3 Bedding material is placed and screeded.

Outcome 5

Lay pavers.

Performance criteria

- 5.1 Pavers are laid from stable edge providing suitable platform to prevent disturbance of screeded bedding material.
- 5.2 Pavers are laid to falls, tolerances, and pattern specified in contract specifications, and joint spaces are consistent.
- 5.3 Infills are completed using cut pavers.

Outcome 6

Embed pavers and clean up the worksite.

Performance criteria

- 6.1 Jointing material is selected in accordance with block manufacturer's instructions.
- 6.2 Jointing sand is applied in accordance with contract specification.
- 6.3 Areas requiring hand-compaction are compacted.
- 6.4 Initial compaction of larger areas is achieved by mechanical means.
- 6.5 Any misaligned pavers are re-laid and follow-up sanding is carried out after settling period.
- 6.6 Surplus materials are removed, and worksite is cleaned up in accordance with contract specifications.

Planned review date	31 December 2026
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 July 1996	31 December 2023
Review	2	9 March 1999	31 December 2023
Review	3	30 May 2000	31 December 2023
Review	4	25 September 2006	31 December 2023
Review	5	28 October 2021	N/A

Consent and Moderation Requirements (CMR) reference	0101
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact Connexis - Infrastructure Industry Training Organisation qualifications@connexis.org.nz if you wish to suggest changes to the content of this unit standard.