

## Construct interlocking pavers on civil construction works

**Level** 3

**Credits** 18

**Purpose** People credited with this unit standard are able to: identify 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 site.

**Subfield** Civil Works and Services

**Domain** Civil Construction Works

**Status** Registered

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**Entry information** Open.

**Accreditation** Evaluation of documentation and visit by NZQA and industry.

**Standard setting body (SSB)** Infrastructure ITO

**Accreditation and Moderation Action Plan (AMAP) reference** 0101

This AMAP can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

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### Special notes

- 1 The following legislation and regulations must be complied with: Health and Safety in Employment Act 1992; and Health and Safety in Employment Regulations 1995.
- 2 Assessment against this unit standard must take place in a workplace environment. Assessment parameters will be dependent on company and site specific equipment, procedures, and practices. Practices must reflect industry best practice and comply with legislative requirements.

### 3 Definitions

*Company requirements* include the policy, procedures, and methodologies of the company. They include legislative and regulatory requirements which may apply across the company or to a specific site. Requirements are documented in the company's health and safety plans, traffic management plans, contract work programmes, quality assurance programmes, policies, and procedural documents.

*Contract specifications* include plans, diagrams, and special technical conditions.

They do not include special administrative conditions.

*Manufacturer's instructions* may include specifications, installation, handling, use and maintenance instructions and safety data sheets.

*Job instructions* are those given to the operator prior to undertaking a job. They may include site safety instructions, contract drawings, and written memos.

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## Elements and performance criteria

### Element 1

Identify materials and equipment for interlocking pavers.

#### Performance criteria

- 1.1 Sub-base material, crusher dust, graded sand, and proprietary sand mixes, are identified and their use on pavements explained in terms of particle size and effective moisture content.
- 1.2 The use of paving equipment is identified and demonstrated in accordance with company requirements.
- Range four of the following – straightedge, side runners, screed rail, screed, bolster chisel, paving splitter, rubber hammer, short piece of timber, and cobble cutter.

### Element 2

Confirm job instructions.

#### Performance criteria

- 2.1 On-site check is carried out to confirm contract specifications and quality plan in accordance with company requirements.
- Range includes – check of 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 constraints may include – physical obstructions, slopes, surface drainage, access to site for vehicles and pedestrians, available equipment.

- 2.4 Type and thickness of paving block are confirmed in accordance with contract specifications.
- 2.5 Laying pattern and colour are confirmed in accordance with contract specifications.
- 2.6 Availability of sufficient material to complete contract is confirmed in accordance with contract specifications.

### **Element 3**

Prepare sub-base.

#### **Performance criteria**

- 3.1 Personal protective equipment is selected, fitted, and worn in accordance with company requirements and manufacturer's instructions.  
  
Range           overalls, safety footwear, gloves;  
                    may include – reflective vest, hearing protection, eye protection,  
                    hard hat.
- 3.2 Site is made secure for the safety of workers and the public in accordance with Health and Safety in Employment Act 1992 and company requirements.  
  
Range           may include – regulatory road signs, cones, traffic control, flashing  
                    lights, safety barriers.
- 3.3 Site is set out using pegs or pins, in accordance with contract specifications and survey marks.
- 3.4 Finished level and fall of paved surface is defined using marks, string lines, or pegs in accordance with contract specifications.
- 3.5 Sub-base and material interface levels are established from survey pegs.  
  
Range           interface levels may include – base course, topcourse, 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 follows profile, fall, and contour of final paving in accordance with contract specifications.

#### **Element 4**

Install edges to contain pavers.

##### **Performance criteria**

- 4.1 Perimeter edges are established in accordance with contract specifications.
- Range edges may include – kerb, nib, wall, step, fence, mowing strip, concrete apron, pre-formed block, soldier course.
- 4.2 Bedding material is selected in accordance with contract specifications.
- 4.3 Bedding material is placed and screeded in accordance with contract specifications.

#### **Element 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 in accordance with contract specifications.

#### **Element 6**

Embed pavers and clean up site.

##### **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 specifications and company requirements.
- 6.3 Areas requiring hand-compaction are compacted in accordance with contract specifications.
- 6.4 Initial compaction of larger areas is achieved by mechanical means in accordance with contract specifications.
- 6.5 Any misaligned pavers are re-laid and follow-up sanding is carried out after settling period in accordance with contract specifications and company requirements.

- 6.6 Surplus materials are removed and site is cleaned up in accordance with contract specifications and company requirements.
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**Please note**

Providers must be accredited by the Qualifications Authority, or an inter-institutional body with delegated authority for quality assurance, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be accredited by the Qualifications Authority before they can register credits from assessment against unit standards.

Accredited providers and Industry Training Organisations assessing against unit standards must engage with the moderation system that applies to those standards.

Accreditation requirements and an outline of the moderation system that applies to this standard are outlined in the Accreditation and Moderation Action Plan (AMAP). The AMAP also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

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**Comments on this unit standard**

Please contact Infrastructure ITO [askus@infratrains.co.nz](mailto:askus@infratrains.co.nz) if you wish to suggest changes to the content of this unit standard.