
Overview

This standard is one of six which covers installation of the various forms of hard-standing surfaces that are used within the landscaping industries.

This standard is targeted at operatives working under limited supervision and focuses on the skills required to both understand the structure and to undertake the installation of hard surfaces while working to specifications.

This standard covers the installation of flexible sett/cobble surfaces. You will be expected to understand the impact of the installation on the immediate environment, and the impact of the environment on the structure.

**Performance
criteria**

You must be able to:

- P1 assess the risks associated with the site and the proposed work
- P2 select, prepare, use and maintain tools and equipment that are appropriate for the work safely and effectively
- P3 keep damage, unnecessary waste, unwanted impact on the environment and pollution to a minimum
- P4 lay setts, cubes and/or cobbles to a suitable pattern
- P5 check laid units for alignment
- P6 cut-in to required standard at edges and around obstructions such as access covers
- P7 compact units
- P8 check completed surface for compliance and rectify any problems
- P9 fill joints and re-compact
- P10 set out for line and level
- P11 keep the site in a clean and tidy condition
- P12 clean and store tools and equipment promptly and securely
- P13 protect working areas effectively against weather and use until they are in a suitable condition
- P14 leave the site safe, tidy and suitable for intended use
- P15 maintain effective working relations with relevant people throughout
- P16 carry out all work in accordance with relevant environmental and health and safety legislation, risk assessment requirements, codes of practice and company policies

Knowledge and understanding

You need to know and understand:

- K1 the weather conditions that are appropriate for installation
- K2 how to carry out a risk assessment for installation and decide on safe working methods
- K3 how to interpret specifications
- K4 how to measure to ensure work is within tolerances
- K5 how falls, lines and levels are determined and set out
- K6 how to select and prepare the correct tools and equipment for the task, including PPE and RPE
- K7 how to use, maintain, clean and store the required tools and equipment correctly
- K8 use of cutting tools including splitters, saws and trimming tools
- K9 the importance of dust-suppression and RPE when using a cut-off saw
- K10 the importance of edge restraints
- K11 how to calculate the quantity of paving materials required
- K12 how paving materials should be stored on site, how they are delivered to the laying face and how they are positioned for the laying operative
- K13 the range of setts, cubes and cobbles available and their suitable applications
- K14 the range of suitable laying course materials
- K15 how to determine the most suitable type of laying course preparation (screeded, individual bed, or a combination of both) for any given sett laying project
- K16 the range of laying patterns commonly used and how they are established
- K17 how laying patterns affect overall surface strength and performance
- K18 the importance of mixing and randomising units from three or more packs prior to laying
- K19 how surfaces are continuously checked for compliance to line, level, joint width and unit competence during the laying process
- K20 how cutting-in is achieved following the principles of minimum unit size and inboard cutting techniques
- K21 the use of concrete fillets around pavement obstructions such as access covers
- K22 the importance of using the correct jointing material and its role in the performance of the completed pavement
- K23 techniques used for dry and wet grouting
- K24 techniques used for polymeric jointing
- K25 the size, mass, and type of compaction equipment suitable for the type of units being laid
- K26 how compaction equipment is used, and the use of any required attachments

Knowledge and understanding

- K27 removal and replacement of defective units
- K28 how surfaces are continuously checked for compliance to line, level, joint width and material competence during the laying process
- K29 the importance of final compliance checks
- K30 your responsibilities under current environmental and health and safety legislation, codes of practice and company policies

Glossary

Instructions: verbal or written.

Specifications: drawings, schedules, method statements, Standard Operating Procedures (SOPs), manufacturers' guidelines.

PPE: Personal Protective Equipment.

RPE: Respiratory Protective Equipment.

Tools and equipment:

- hand tools including floats and trowels, brick/scutch hammers, paving hammer/ maul/mallet, alignment bar, string lines, line pins, cold chisels, punches, bolsters and pitching chisels
- vibrating plate compactors
- guillotine splitters
- cut-off saws
- appropriate PPE and RPE

Tasks:

- laying in courses
- laying in chevrons
- laying in bogens/segmental arches
- laying in fans
- cutting-in
- loose material jointing
- polymeric jointing
- compaction
- lift and repair

Materials:

- sawn cubes
- cropped cubes
- sawn setts
- cropped/textured setts
- cobbles

LANH44 SQA Unit Code H530 04
Install flexible sett/cobble surfaces



Developed by	Lantra
Version number	1.1
Date Approved	March 2012
Indicative review date	March 2017
Validity	Current
Status	Original
Originating organisation	Lantra
Original URN	LANL32
Relevant occupations	Landscaper
Suite	Horticulture
Keywords	paving; sett; cobble
