



Australian Government

MSFFL2027 Install expansion joints

Release: 1

MSFFL2027 Install expansion joints

Modification History

Release 1 - New unit of competency

Application

This unit of competency covers installing expansion joints and gaps, calculating how many and how often they are to be installed, and what size and type are necessary for the application at hand.

Licensing, legislative or certification requirements may apply to this unit and relevant state/territory and local government agencies should be consulted to determine any necessary certification or licensing for undertaking flooring work. Access to construction sites requires certification of general induction training specified by the National Code of Practice for Induction for Construction Work (ASCC 2007).

Pre-requisite Unit

Competency Field

Unit Sector

Flooring technology

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element.

1	Prepare for work	1.1	Applicable work health and safety (WHS), legislative and organisational requirements relevant to the installation of expansion joints to timber and engineered flooring are verified and complied with
		1.2	Instructions and/or plans are read and interpreted to identify process required to complete work tasks
		1.3	Timber and engineered flooring is assessed for the type, number and installation requirements of expansion joints consistent with Australian Standards, industry standards and manufacturer recommendations
		1.4	Suitable expansion joints, cover strips, fixings and adhesives are selected as required

		1.5	Tools, equipment and materials are selected and checked prior to use to ensure that they are appropriate for the work, serviceable and in a safe condition
		1.6	Sequence of work is planned, including the position of each expansion joint, to ensure efficiency and quality of installation
2	Set out expansion joints for installation	2.1	Expansion joints are positioned according to the requirements of the flooring type, manufacturer specifications and Australian Standards
		2.2	Timber or metal mouldings or cork expansion strip for fixing are organised and used in accordance with relevant safety management requirements
		2.3	Adhesives and fixings, are prepared for use as required
		2.4	Working lines and starting point are established
3	Prepare expansion joints	3.1	Instructions and sequence for cutting and fixing are followed
		3.2	Timber or metal mouldings are laid out to meet directional sequence, pattern match, specification requirements and to minimise waste and joins, as appropriate
		3.3	The aesthetics of the materials are maximised, where appropriate, matching grains and colours
		3.4	Timber or metal moulding or cork expansion strip materials are accurately and clearly marked for cutting
		3.5	Timber or metal moulding or cork expansion strip is cut to length and size for final fixing ensuring minimum waste
4	Install expansion joints	4.1	Timber or metal mouldings or cork expansion strip for fixing are organised and used in accordance with relevant safety management requirements
		4.2	Adhesives and mechanical fixings are prepared for use as required
		4.3	Fixing methods and equipment are used following manufacturer recommendations
		4.4	Timber or metal mouldings or cork expansion strip are fitted to perimeter wall expansion gaps, expansion joints

			in the body of the flooring or transitions of the timber or engineered flooring
		4.5	Finished job is inspected and any imperfections are rectified following workplace procedures
5	Complete housekeeping	5.1	Unused materials are stored or recycled as required
		5.2	Tools and equipment are cleaned and stored appropriately
		5.3	Work area is cleaned and rubbish disposed of appropriately
		5.4	Workplace documentation is completed

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency. Detail on appropriate performance levels for each furnishing unit of competency in reading, writing, oral communication and numeracy utilising the Australian Core Skills Framework (ACSF) are provided in the Furnishing Training Package Implementation Guide.

Range of Conditions

Specifies different work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Range is restricted to essential operating conditions and any other variables essential to the work environment.

Unit context includes:	- WHS requirements, including legislation, building codes, material safety management systems, hazardous and dangerous goods codes, and local safe operating procedures or equivalent - work is carried out in accordance with legislative obligations, environmental legislation, relevant health regulations, manual handling procedures and organisation insurance requirements - work requires individual to demonstrate some discretion, judgement and problem solving
Expansion joint materials include:	- skirtings - scotias - quads

	• beading • cover strips • threshold strips (end, edge and T mouldings) • angle end sections • reducer strips • ramping strips • stair nosings
Materials include:	• adhesives • metal fixings • timber and metal mouldings • cork expansion strip
Adhesives include:	• polyvinyl alcohol (PVA) • epoxy • polyurethane elastomeric
Mechanical fixings include:	• ring grooved nails • pins • staples • screws • nylon plug • screws (tap-ins) • rawl plugs
Tools and equipment include:	• jig saw • hand saw • hacksaw • hammer • nail punch • bar scribe • utility knife • circular saw • bench saw • straight edge • staple gun
Personal protective equipment includes:	• that prescribed under legislation, regulations and enterprise policies and practices
Information and procedures include:	• Australian Standard AS I684.1-1999 Residential timber-framed construction – Design criteria and the Australian Timber Code • workplace procedures relating to the use of tools and equipment • work instructions, including job sheets, cutting lists, plans, drawings and designs

- workplace procedures relating to reporting and communication
- manufacturer specifications and operational procedures

Unit Mapping Information

Supersedes and is equivalent to LMFFL2504A Install expansion joints

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=0601ab95-583a-4e93-b2d4-cfb27b03ed73>

Assessment Requirements for MSFFL2027 Install expansion joints

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Performance Evidence

- Interpret work order and locate and apply relevant information
- Apply safe handling requirements for equipment, products and materials, including use of personal protective equipment
- Identify materials used in the work process
- Follow work instructions, operating procedures and inspection processes to:
 - minimise the risk of injury to self or others
 - prevent damage to goods, equipment and products
 - maintain required production output and product quality
- Complete a minimum of the placement and fitting of expansion joints to:
 - one (1) strip timber floor
 - one (1) parquet floor
 - one (1) engineered floating floor
- Use mathematical ideas and techniques to correctly complete measurements, calculate area and estimate material requirements
- Communicate ideas and information to enable confirmation of work requirements and specifications and the reporting of work outcomes and problems, interpret basic plans and follow safety procedures
- Avoid backtracking, work flow interruptions or wastage
- Work with others and in a team by recognising dependencies and using cooperative approaches to optimise work flow and productivity

Knowledge Evidence

- State or territory WHS legislation, regulations, standards and codes of practice relevant to placement and fitting of expansion joints to timber and engineered flooring
- Organisational and site standards, requirements, policies and procedures for the placement and fitting of expansion joints to timber and engineered flooring
- Types, characteristics, uses and limitations of:
 - the placement and fitting of expansion joints for timber and engineered flooring
 - timber or metal mouldings and cork expansion strip when fitting expansion joints to timber and engineered flooring
- Types and uses of tools and equipment used during the placement and fitting of expansion joints to timber and engineered flooring.

- Basic wood working techniques relevant to the placement and fitting of expansion joints to timber and engineered flooring
- Workplace safety system requirements relevant to the placement and fitting of expansion joints to timber and engineered flooring
- Work flow in relation to the placement and fitting of expansion joints to timber and engineered flooring
- Characteristics and requirements of expansion joint preparation
- Environmental protection requirements
- Appropriate mathematical procedures for estimation and measurement
- Procedures for the recording, reporting and maintenance of workplace records and information

Assessment Conditions

- Assessors must:
 - hold training and assessment competencies as determined by the National Skills Standards Council (NSSC) or its successors
 - have vocational competency in the furnishing industry at least to the level being assessed with broad industry knowledge and experience, usually combined with a relevant industry qualification
 - be familiar with the current skills and knowledge used and have relevant, current experience in the furnishing industry.
- Assessment methods must confirm consistency of performance over time rather than a single assessment event and in a range of workplace relevant contexts.
- Assessment must be by observation of relevant tasks with questioning on underpinning knowledge and, where applicable, multimedia evidence, supervisor's reports, projects and work samples.
- Assessment is to be conducted on single units of competency or in conjunction with other related units of competency. Foundation skills are integral to competent performance in the unit and should not be assessed separately.
- Assessment must occur on the job or in a workplace simulated facility with relevant process, equipment, materials, work instructions and deadlines.
- Access is required to materials and equipment for the placement and fitting of expansion joints to one strip timber floor, one parquetry floor and one engineered floating floor.

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