

Inspected by:	Record no:	Date of inspection:
Site address:		

Note: This checklist is a guide only and may be used to assist in determining compliance with safety requirements for formwork activities in construction. Further information can be obtained by contacting Workplace Health and Safety Queensland (1300 369 915) or <a href="https://www.deir.gld.gov.au">www.deir.gld.gov.au</a>

For	mwork safety issues	Compliance indicators and	Compliant	Action required
		Code/Regulation/Act reference	(yes/no)	
1.	Formwork drawings provided (drawings	Drawings to be readily available on site.		
	to include engineer/formwork designer	Drawings signed by professional engineer (non		
	certification)	basic system)/formwork designer (basic system).		
		Formwork Code sections 2.2.2, 2.2.5		
2.	Verification that the formwork structure	Pre pour sign off by professional		
	complies with the design of the	engineer/formwork designer/competent person.		
	formwork system (pre pour inspections)	Checklists and certificates similar to Appendix 3		
		and 4 completed and on site.		
		Formwork Code section 2.2.5, Appendix 3 and 4		
3.	Back propping details (plans and	Specific plans or notes on drawings to be readily		
	elevations including tying in)	available on site.		
		Back propping to be completed as per drawings		
		Formwork Code sections 2.2.3, 2.2.5		
4.	Engineer certification for lifting points	Specific drawings/certification provided by		
	for column boxes and wall shutters	professional engineer nominating lifting point		
		details to be readily available on site.		
		Certification should verify structural adequacy of		
		lifting apparatus and the means for attachment to		
		load (usually welded or bolted)		
		Work practices reflect drawings		
		Formwork Code section 4.4.5		
5.	Design documentation for jump form	Drawings specific to the jump form to be readily		
		available on site.		
		Drawings signed by professional engineer.		
		Work practices reflect drawings.		
		Formwork Code section 8.7		



For	mwork safety issues	Compliance indicators and	Compliant	Action required
		Code/Regulation/Act reference	(yes/no)	
6.	Design documentation for perimeter	Drawings specific to the perimeter containment		
	containment screening	screening to be readily available on site.		
		Drawings signed by a professional engineer if		
		screening is a part of a non basic formwork system		
		or proprietary item.		
		Formwork Code section 2.2.3		
7.	Certification of the maximum loads from	Drawings signed by professional engineer (non		
	stacked materials that the formwork	basic system)/formwork designer (basic system).		
	structure can withstand	Drawings to be readily available on site.		
		Work practices reflect drawings.		
		Formwork Code sections 2.2.2, 2.2.5		
8.	Design variations certified eg:	Drawings/certification readily available on site		
	<ul> <li>Braces left off</li> </ul>	certified by formwork designer/professional		
	<ul><li>Frame extensions</li></ul>	engineer that variations comply with AS 3610		
	<ul> <li>No base plates on frames</li> </ul>	Formwork structure reflects variations to initial		
	<ul> <li>Flat jacks in lieu of U heads</li> </ul>	design drawings.		
		Formwork Code section 2.2.5		
9.	Work method statements adequate for	Work method statement readily available and		
	purpose (e.g. formwork stripping)	addresses relevant risks (falls from height).		
		Work practices reflect work method statement		
		Formwork Code section 4.3.1 WQHS		
		Regulations 1997 sections 157, 191, 194		
10.	"A" frame shutter storage racks &/or	Drawings/certification from professional engineer		
	shutter storage areas engineer designed	that surface to be used for stacking of forms is		
		capable of withstanding loads and details of how		
		loads are to be applied.		
		Work practices reflect drawings/certification.		
		Formwork Code section 3.2.2		
11.	Access in and around formwork	Designated access ways provided (hazard		
	structure	tape/other visual methods).		
		Persons instructed in the use of the access ways.		
		Access ways clear of rubbish, plant and materials.		
		Formwork Code section 3.2.1, WHS Regulation		
		1997 s174(2)(b)&(c),s200(2)(d)&(e)		



Formwork safety issues	Compliance indicators and	Compliant	Action required
·	Code/Regulation/Act reference	(yes/no)	
12. Systems of material storage in and	Materials stored so as to minimise manual tasks		
around formwork structure	hazards, trip hazards and the potential for falling		
	objects.		
	Smaller components such as U-heads, couplers,		
	base plates and 'Z-bars' contained in material		
	boxes.		
	Components stored so as to provide access to		
	designated walkways.		
	Formwork Code section 3.2.2, WHS Regulation		
	1997 s174(2)(c),s200 2(e)		
13. Systems of rubbish storage and removal	The provision of rubbish skips and wheel barrow		
in and around formwork structure	that are moved as work progresses.		
	Rubbish stored so as to provide access to		
	designated walkways.		
	Rubbish removed at regular intervals.		
	Formwork Code section 3.2.3, WHS Regulation		
	1997 s174(2)(b),s200 2 (d)		
14. Form decks clean and clear e.g. no	The provision of rubbish skips, brooms etc on the		
excess form oil, sawdust	working deck.		
	The provision of spill kits for excess form oil.		
	Formwork Code section 3.2.3, WHS Regulation		
	1997 s174(2)(b),s200 2 (d)		
15. Barricades/signs for stripping areas	Stripping area condoned off with signs and		
	barricades.		
	Formwork Code section 4.3.4		
16. Erectors of framing over 4m high are	Persons erecting framing over 4m high produce		
holders of basic scaffold	evidence of either scaffold certificate or that they		
certificate/trainees	are a trainee (up to date log book)		
	Formwork Code section 4.1.3, WHS Regulation		
	1997 s17(1), (2), (3), 21, 22, 24, 25		
17. Minimum width 450mm work platform	Minimum of two planks (450mm width) used for		
used for framing work under 2m	workers to stand on under 2m high.		
	Formwork Code section 4.1		



Formwork safety issues	Compliance indicators and Code/Regulation/Act reference	Compliant (yes/no)	Action required
18. False deck used	False deck same area as floor being formed (inside and between frames). Captive planks secured against uplift and slipping. Gaps do not exceed 225mm. Formwork Code section 4.1.	(yes/iio)	
19. Edge protection/fall protection to decks	Edge protection complies with Regulation (top rail, mid rail, toe boards/top rail, mesh guards).  Edge protection in place prior to formwork activities or barricade in place at least 1.8m back from edge. False deck provided no more than 2.0m below formwork deck.  If no false deck in place – minimum of 4 joists laid out at 450mm centres beside and 1.8m in front.  Formwork Code section 2.2.3, 4.1.6 & 4.1.7, WHS Regulation 1997 s216		
20. Penetrations securely covered	Ply covers used which are firmly secured by bolting/concrete nailing. Ply covers which are marked with bright paint to signify that there is a "hole under".  Formwork Code section 4.1.9		
21. For work on wall forms-gaps less than 225mm or edge protection installed	Edge protection complies with Regulation (top rail, mid rail, toe boards/top rail, mesh guards).  Formwork Code section 7.2, 8.2, WHS  Regulation 1997 s216		
22. Perimeter containment screening	Screening complies with Regulation ( gaps between screens no more than 25mm, fitted with a catch platform/deflector shields, made of mesh sheeting, plywood or timber, mesh pattern to be no more than 50mmx50mm with prescribed lining or 25mm x 25mm for square openings/25mm x 50mm for other openings).  Top of screening to be no less than 1.2m higher than poured slab.  Formwork Code section 5.1.1, WHS Regulation 1997 s179, 184		



Formwork safety issues	Compliance indicators and	Compliant	Action required
	Code/Regulation/Act reference	(yes/no)	
23. Joist spacing no more than 450mm to	If no false deck in place – minimum of 4 joists laid		
deck where no false deck used	out at 450mm centres beside and 1.8m in front.		
	Formwork Code section 4.1.7,		
24. Provision for retrieval of injured worker	Details of retrieval method (dedicated hatches,		
from work areas within jump form	tripod etc) included in jump form design drawings.		
system	Work procedure for retrieval of injured worker		
	readily available and workers aware of process.		
	Formwork Code section 2.2.3, 8		
25. Access to, from and within jump form	Designated access ways provided.		
system	Persons instructed in the use of the access ways.		
	Access ways clear of rubbish, plant and materials.		
	Ladders secured and used as per Regulation.		
	Access hatches/trapdoors closed when not in use.		
	Formwork Code section 8.1, WHS Regulation		
	1997 s174(2)(b)&(c) ,s200(2)(d)&(e)		
26. Amenities supplied to jump form (water,	Chemical toilet supplied and serviced on top of		
toilet, first aid kit)	jump form.		
	Clean drinking water available at least on top of		
	jump form.		
	First aid equipment readily available.		
	Formwork Code section 8.6		
27. Work platforms	All penetrations to work platforms securely covered		
	by ply/mesh.		
	Controls in place to prevent a persons fall when		
	placing reinforcing steel/pouring concrete to wall		
	void areas.		
	Formwork Code section 8.2		
28. Column/wall bracing (pre and post pour)	Documentation readily available to verify details of		
	bracing elements.		
	Work practices as per documentation.		
	Competent person sign off prior to removal of any		
	bracing.		
	Any anchors used to be as per design and		
	manufacturers requirements.		
	Formwork Code section 7.1		



Formwork safety issues	Compliance indicators and	Compliant	Action required
	Code/Regulation/Act reference	(yes/no)	
29. PPE used in areas of excessive noise	Hearing protection of Class 2 or 3 rating worn in		
	areas of excessive noise.		
	Workers trained in correct use of hearing		
	protection.		
	Formwork Code section 6.1, WHS Act 1995 s36		
30. Effective control measure used for	Engineering controls such as dust extraction or a		
exposure to silica dust	wet process.		
	Use of respirators.		
	Workers trained in correct use of PPE.		
	Formwork Code section 6.2, WHS Act 1995		
	s36		
31. Regular Tool Box Talks held to maintain	PC or formwork contractor has records of tool box		
awareness levels of hazards, risks,	talks readily available.		
controls	Work practices reflect work method		
	statements/work procedures.		
	Formwork Code section 3.3, WHS Regulation		
	1997 s168, 191, 193, 194		
32. Use of mechanical means for movement	Cranes, hoists, pallet jacks and trolleys in use.		
of formwork equipment/materials	Formwork Code section 6.3		
(overstressing injuries)			

# Queensland Government Department of Employment and Industrial Relations

## Formwork activities in construction – sample site safety checklist

#### Definitions.

## **Professional Engineer**

A person who is a registered professional engineer under the *Professional Engineers Act 2002 (Qld)*; and who has appropriate experience and competence in the design of formwork.

## Formwork designer

A person who is competent in designing formwork and who holds a relevant degree in engineering or building or has successfully completed courses in formwork design and has appropriate experience in this field.

### Competent person

In relation to performing an inspection or other task for a control measure is a person who has acquired, through training, qualifications or experience the knowledge and skills to do the work in a safe way, including—

- (i) sound knowledge of relevant Australian Standards, relevant codes of practice and other relevant legislation; and
- (ii) sound knowledge of, and competence in, the risk management process for the erecting, altering and dismantling of formwork, including—
- o hazard identification and risk assessment; and
- o measures to control exposure to risks; and
- o safe work practices and procedures; and
- o how to plan and prepare formwork.

## **Basic formwork system**

A basic formwork system includes:

- standard formwork frames which have a known tested loading capacity spaced at no more than the recommended distances apart for a normal floor thickness with bearer, joists and formboard on top of them; and
- specially manufactured and designed formwork systems with proprietary formwork components and rated load calculations in line with the manufacturers' specifications.

## Non basic formwork system

Formwork systems which exceed the description of a 'basic formwork system' are, for the purposes of this Code, categorised as 'non-basic formwork systems'.

The Code requires that a professional engineer is the only person who may certify:

- the design of all temporary or permanent formwork structures categorised as 'non-basic formwork systems'; and
- any back propping used for either basic formwork systems or non-basic formwork systems.