FIGURED

USE

DRAWING.

SCALE THIS

8

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ENGINEERING SPECIFICATION:

GENERAL

This drawing shall be read in conjunction with Fair Dinkum Homes and Sheds Drawings.

Allow for falls to wastes, set downs for tiles & weather steps,

At all times during construction water must be drained away from the building. Ponding must not be allowed to remain along the sides of the building or in trenches close to the building.

All downpipes, tap outlets, condensate, drains etc. are to be drained away from the building and discharged to an outfall or an area remote from the building.

Refer to engineer for footings details if site conditions other than assumed are encountered.

The ground and slabs are to be treated for termites in accordance with Australian Standards and council requirements. (Optional for Class 10a structures).

Damp-proofing membranes to be provided under slab in South Australia and areas prone to rising damp and salt attack. (Optional for Class 10a structures).

A site specific Geotechnical investigation is recommended.

Refer to table for

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Refer to table for

requirements for backfilling excavations resulting from removal of soft spots or tree stumps, contact the engineer.

Fill beneath slabs is to be granules. (88) as see trable and compacted in layers of Soem movimum to a minimum of 5% minimum my dentity rathe based on standard compaction for cohesive soils, and to a minimum dentity index of 70% for cohesion less soils. Maximum fill adepth 900mm, refer to engineer if greater depth of fill is required. It is the builder's responsibility to test the compaction to ensure compliance. All earth work to be in accordance with AS798-2007.

CONCRETE

All concrete details and placement shall be performed in accordance with AS3600.

Minimum etrength, Footness NZC MPa, Internal Slabe NIS MPa, Exposed Slabe NI2 MPa. Hockman Storp of the Roman max. Zomm aggregate. All controls in 19 se mechanical networks of the MPa. Members of the MPa. Members of the NIS MPA. Members of the

Concrete NOT to be poured in temperatures below 5°C OR above 35°C.

Provide 2-N16 bars 1500mm long to u/s of mesh adjacent re-entrant corners. Where reinforcement has been cut to provide for services, an equivalent amount of trimming reinforcement is to be placed each side of the service.

Reinforcement is to be supported on approved bar chairs at 800 max. centres in

Unless otherwise noted, the following minimum reinforcement splices are required:

Edge thickening (ET) to -slab perimeter. (Not required for domestic

applications) Footing thickenings at portal frames and mullion locations as per Multibuile

design information.

N16 - 800mm lan

- Indicates joints

-Typical optional awning slab.

Edge thickening (ET) to slab -perimeter. (Not required for-domestic applications).

Footing thickenings at portal -frames and mullion locations as-per Multibuild design information.

Refer to table for

Reinforcing fabric - One grid overlap plus 25mm. Trench mesh - 600mm

Avoid services beneath slabs wherever possible. Where services are placed

- Avoid services beneath stabs:

 Provide 40mm of flexible sealant / lagging between pipes and penetrated concrete.

 Provide a flexible joint each side of the concrete and another within 500mm upstream and downstream, creating a short length of pipe each side of the short pipe through the concrete.

Service trench inverts are to slope away from the footings and be backfilled and compacted with clay from the site. Flexible joints are to be provided where services adjoin the building.

LANDSCAPING & MAINTENANCE

Trees must be kept well away from the building. Recommended minimum distance of at least the height of a mature tree and 1.5 times this for a group of trees.

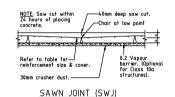
The builder should instruct the owner of his/her responsibility for maintenance of the area around the building in accordance with CSIRO sheet No. 10-91, especially with respect to surface water, trees and plumbing leaks.

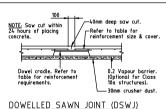
SLAB DESIGN LOADINGS

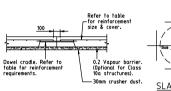
DOMESTIC	COMMERCIAL	LIGHT INDUSTRIAL	MEDIUM INDUSTRIAL	HEAVY INDUSTRIAL
- Domestic storage (up to 3kPa)	– Light storage (up to 5kPa)	- Light storage (up to 10kPa)	- Medium storage (up to 25kPa)	- Storage greater than 30kPa
- Foot traffic - Garages mainly for private cars	- Commercial premises, shops, showrooms	- Light industrial activity (max. axle load = 6.5t, approx. 2.5t forklift)	- Medium industrial activity (max. axle load = 11.5t, approx. 5t forklift)	- Heavy industrial activity (forklifts greater than 5t)
(up to 4.5t GVM)		- Racking loads (2.5t max. concentrated post load, 1.0m min. spacings)	- Racking loads (4t max. concentrated post load, 1.0m min. spacings)	- Heavy racking loads - Heavy commercial/machinery
		- Garages mainly for commercial vehicles up to 8t GVM	- Garages for large commercial vehicles up to 15t GVM	heavy/articulated vehicles up to 40t GVM

- Forklift axle load approximately = 2.5 x rated capacity (confirm with manufacturers specifications) - Ground conditions min. 100 kPa & 3 CBR.

SITE CLASS	SLAB LOADING	CONCRETE STRENGTH	ADDITIONAL SITE FILL	UNDER SLAB FILL	SLAB THICKNESS	SLAB REINFORCEMENT	RECOMMENDED JOINT SPACING	DSWJ/SJ JOINT REINFORCEMENT REQUIREMENTS	FOOTINGS AT COLUMN/ MULLION LOCATION	ADDITIONAL INFORMATION
	Domestic	25 MPa	N/A	N/A	As per Multibuild design information	SL72 mesh, 30 top cover	6m (9m max.)	R12 Bars at 300 max. cts.	As per Multibuild design information	Edge thickening not required for domestic applications but recommended
	Commercial	25 MPa	N/A	150mm thick CBR25 gravel base.	125mm	SL72 mesh, 30 top cover	6m (7.5m max.)	R16 Bars at 450 max. cts.	As per Multibuild design information	Refer to light industrial for commercial with racking loads
A,S	Light Industrial	32 MPa	N/A	150mm thick CBR25 gravel base.	150mm	SL82 mesh, 30 top cover	6m (7.5m max.)	R20 Bars at 450 max. cts.	As per Multibuild design information	
	Medium Industrial	32 MPa	N/A	150mm thick CBR25 gravel base.	180mm	SL92 mesh, 30 top cover	6m (7.5m max.)	R20 Bars at 300 max. cts.	As per Multibuild design information	
	Heavy Industrial			Re	fer to e	ngineers f	or custo	m design o	of slabs	









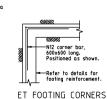
SLAB JOINT (SJ)

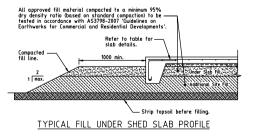
INTERSECTION DETAIL

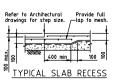
JOINTING NOTES

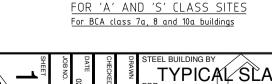
- 1. A DSWJ or SJ joint MUST BE provided in lieu of every THIRD SWJ joint.
- 2. Joints to be located min. 600 from column locations.
- 3. Crack inducer is recommended for slabs greater than 150 thick
- 4. Where possible, joints should be located to create square slab panels. Maximum recommended ratio of sides is 1.5:1.

0.2 Vapour barrier (Optional for Class 10a R6 ties at — 1200 max. cts. WANN. EDGE THICKENING (ET)









TYPICAL SLAB AND FOOTING LAYOUTS

(E)

TYPICAL SLAB AND FOOTING LAYOUTS FOR A AND 'S CLASS SITES For BCA class 7a, 8 and 10a buildings





istered Engineer - (Civil) VIC istered Engineer - (Civil) TAS

Phone: 07 4725 5550 Fax: 07 4725 5850 Email: design@nceng.com.au agistered Crianered Professional Engineer agistered Professional Engineer (Civil & Structural) QLD agistered Certifying Engineer (Structural) N.T.

ABN 341 008 173 56 Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692

Civil & Structural Engineers | Mr Timothy Roy Messer BE MIEAust RPEQ 50 Punari Street Registered Professional Engineer 2558980 Currajong, Qld 4812 Signature

> 02/03/2011 Registered on the NPER in the areas of practice of Civil & Structural National Professional **Engineers Register**

DIMENSIONS TO BE VERIFIED ON SITE

ALL

ONLY.

DIMENSIONS

FIGURED

USE

DRAWING.

SCALE THIS

8

ENGINEERING SPECIFICATION:

GENERAL

This drawing shall be read in conjunction with Fair Dinkum Homes and Sheds Drawings.

Allow for falls to wastes, set downs for tiles & weather steps

At all times during construction water must be drained away from the building. Ponding must not be allowed to remain along the sides of the building or in trenches close to the building.

All downpipes, tap outlets, condensate, drains etc. are to be drained away from the building and discharged to an outfall or an area remote from the building.

Refer to engineer for footings details if site conditions other than assumed are encountered.

The ground and slabs are to be treated for termites in accordance with Australian Standards and council requirements. (Optional for Class 10a structures).

Damp-proofing membranes to be provided under slab in South Australia and areas prone to rising damp and salt attack. (Optional for Class 10a structures).

A site specific Geotechnical investigation is recommended.

All footings are to be placed into firm, natural, undisturbed ground unless written approval is received from the engineer.

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requirements for backfilling excavations resulting from removal of soft spots or tree stumps, contact the engineer.

Fill beneath slabs is to be granuler. (SB) as per trable and compacted in layers of Spenn movimum to a minimum of 5% minimum by dentity rathe based on standard compaction for cohesive soils, and to a minimum dentity index of 70% for cohesion less soils. Maximum fill depth 900mm, refer to engineer if greater depth of fill is required. It is the builder's responsibility to test the compaction to ensure compliance. All earth work to be in accordance with AS798-2007.

CONCRETE

All concrete details and placement shall be performed in accordance with AS3600.

Minimum strength, Footings N25 MPa, Internal Slabs N25 MPa, Exposed Slabs N32 MPa. Maximum slump to be 80mm, max. 20mm aggregate. All concrete is to be mechanically withorted and cured by an approval method for a minimum of 3 days. We recommend curing of slabs with ULTRA-CURE liquid membrane forming curing compound. For concrete members poured within time of the coast or for members in contact with water, tidal or splash zones refer to engineer for additional

Concrete NOT to be poured in temperatures below 5°C OR above 35°C.

Provide 2-N16 bars 1500mm long to u/s of mesh adjacent re-entrant corners. Where reinforcement has been cut to provide for services, an equivalent amount of trimming reinforcement is to be placed each side of the service.

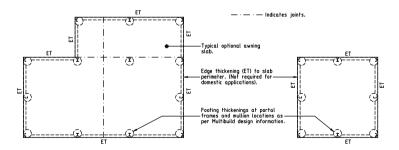
Reinforcement is to be supported on approved bar chairs at 800 max. centres in

Unless otherwise noted, the following minimum reinforcement splices are required:

N16 - 800mm lap

Reinforcing fabric - One grid overlap plus 25mm. Trench mesh - 600mm

Refer to table for Refer to table for Refer to table for Edge thickening (ET) to - slab perimeter. (Not required for domestic Footing thickenings at -portal frames and mullion locations as per Multibuild design information.



TYPICAL SLAB AND FOOTING LAYOUTS FOR 'M' AND 'M-D' CLASS SITES For BCA class 7a, 8 and 10a buildings

Avoid services beneath slabs wherever possible. Where services are placed

- Avoid services beneath stabs:

 Provide 40mm of flexible sealant / lagging between pipes and penetrated concrete.

 Provide a flexible joint each side of the concrete and another within 500mm upstream and downstream, creating a short length of pipe each side of the short pipe through the concrete.

Service trench inverts are to slope away from the footings and be backfilled and compacted with clay from the site. Flexible joints are to be provided where services adjoin the building.

LANDSCAPING & MAINTENANCE

Trees must be kept well away from the building. Recommended minimum distance of at least the height of a mature tree and 1.5 times this for a group of trees.

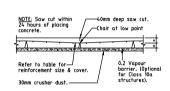
The builder should instruct the owner of his/her responsibility for maintenance of the area around the building in accordance with CSIRO sheet No. 10-91, especially with respect to surface water, trees and plumbing leaks.

SLAB DESIGN LOADINGS

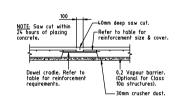
DOMESTIC	COMMERCIAL	LIGHT INDUSTRIAL	MEDIUM INDUSTRIAL	HEAVY INDUSTRIAL
– Domestic storage (up to 3kPa)	– Light storage (up to 5kPa)	- Light storage (up to 10kPa)	- Medium storage (up to 25kPa)	- Storage greater than 30kPa
- Foot traffic - Garages mainly for private cars	- Commercial premises, shops, showrooms	- Light industrial activity (max. axle load = 6.5t, approx. 2.5t forklift)	- Medium industrial activity (max. axle load = 11.5t, approx. 5t forklift)	- Heavy industrial activity (forklifts greater than 5t)
(up to 4.5t GVM)		- Racking loads (2.5t max. concentrated post load, 1.0m min. spacings)	- Racking loads (4t max. concentrated post load, 1.0m min. spacings)	- Heavy racking loads - Heavy commercial/machinery
		- Garages mainly for commercial vehicles up to 8t GVM	- Garages for large commercial vehicles up to 15t GVM	heavy/articulated vehicles up to 40t GVM

- Forklift axle load approximately = 2.5 x rated capacity (confirm with manufacturers specifications) - Ground conditions min. 100 kPa & 3 CBR.

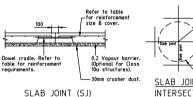
SITE CLASS	SLAB LOADING	CONCRETE STRENGTH	ADDITIONAL SITE FILL	UNDER SLAB FILL	SLAB THICKNESS	SLAB REINFORCEMENT	RECOMMENDED JOINT SPACING	DSWJ/SJ JOINT REINFORCEMENT REQUIREMENTS	FOOTINGS AT COLUMN/ MULLION LOCATION	ADDITIONAL INFORMATION
	Domestic	25 MPa	N/A	N/A	As per Multibuild design information	SL72 mesh, 30 top cover	6m (9m max.)	R12 Bars at 300 max. cts.	As per Multibuild design information	Edge thickening not required for domestic applications but recommended
M	Commercial	25 MPa	N/A	150mm thick CBR25 gravel base.	125mm	SL72 mesh, 30 top cover	6m (7.5m max.)	R16 Bars at 450 max. cts.	As per Multibuild design information	Refer to light industrial for commercial with racking loads
&	Light Industrial	32 MPa	N/A	150mm thick CBR25 gravel base.	150mm	SL82 mesh, 30 top cover	6m (7.5m max.)	R20 Bars at 450 max. cts.	As per Multibuild design information	
M-D	Medium Industrial	32 MPa	N/A	150mm thick CBR25 gravel base.	180mm	SL92 mesh, 30 top cover	6m (7.5m max.)	R20 Bars at 300 max. cts.	As per Multibuild design information	
	Heavy Industrial	Refer to engineers for custom design of slabs								



SAWN JOINT (SWJ)



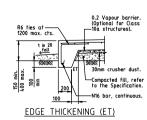
DOWELLED SAWN JOINT (DSWJ)

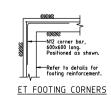


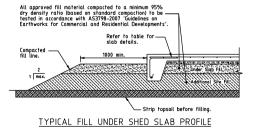


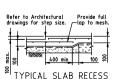
JOINTING NOTES:

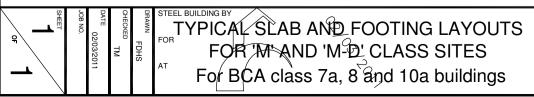
- 1. A DSWJ or SJ joint MUST BE provided in lieu of every THIRD SWJ joint.
- 2. Joints to be located min. 600 from column locations
- 3. Crack inducer is recommended for slabs greater than 150 thick.
- 4. Where possible, joints should be located to create square slab panels. Maximum recommended ratio of sides is 1.5:1.















gistered Certifying Engineer (Structural) N.T. gistered Engineer - (Civil) VIC

Currajong, Qld 4812 Phone: 07 4725 5550 Fax: 07 4725 5850 Email: design@nceng.com.au ABN 341 008 173 56 Regn. No. 2558980 Regn. No. 9985 Regn. No. 116373ES Regn. No. EC36692

50 Punari Street

02/03/2011

Civil & Structural Engineers Mr Timothy Roy Messer BE MIEAust RPEQ

Registered on the NPER in the areas of practice of Civil & Structural National Professional **Engineers Register**

Registered Professional Engineer 2558980

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- Indicates joints.

Refer to table for

N12 - 600mm lap N16 - 800mm lap Reinforcing fabric - One grid overlap plus 25mm.

Edge thickening (ET) to -slab perimeter. (Not required for domestic

Footing thickenings at portal frames and mullion

locations as per Multibuile design information.

Avoid services beneath slabs wherever possible. Where services are placed

- Avoid services Deneath stabs:

 Provide 40mm of flexible sealant / lagging between pipes and penetrated concrete.

 Provide a flexible joint each side of the concrete and another within 500mm upstream and downstream, creating a short length of pipe each side of the short pipe through the concrete.

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SLAB DESIGN LOADINGS

	DOMESTIC	COMMERCIAL	LIGHT INDUSTRIAL	MEDIUM INDUSTRIAL	HEAVY INDUSTRIAL	
' [- Domestic storage (up to 3kPa)	– Light storage (up to 5kPa)	– Light storage (up to 10kPa)	- Medium storage (up to 25kPa)	- Storage greater than 30kPa	
	- Foot traffic - Garages mainly for private cars	- Commercial premises, shops, showrooms	- Light industrial activity (max. axle load = 6.5t, approx. 2.5t forklift)	 Medium industrial activity (max. axle load = 11.5t, approx. 5t forklift) 	- Heavy industrial activity (forklifts greater than 5t)	
	(up to 4.5t GVM)		- Racking loads (2.5t max. concentrated post load, 1.0m min. spacings)	- Racking loads (4t max. concentrated post load, 1.0m min. spacings)	- Heavy racking loads - Heavy commercial/machinery	
			- Garages mainly for commercial vehicles up to 8t GVM	- Garages for large commercial vehicles up to 15t GVM	heavy/articulated vehicles up to 40t GVM	

- Forklift axle load approximately = 2.5 x rated capacity (confirm with manufacturers specifications)
- Ground conditions min. 100 kPa & 3 CBR

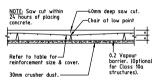
SITE CLASS	SLAB LOADING	CONCRETE STRENGTH	ADDITIONAL SITE FILL	UNDER SLAB FILL	SLAB THICKNESS	SLAB REINFORCEMENT	RECOMMENDED JOINT SPACING	DSWJ/SJ JOINT REINFORCEMENT REQUIREMENTS	FOOTINGS AT COLUMN/ MULLION LOCATION	ADDITIONAL INFORMATION
	Domestic	25 MPa	150 CBR15 gravel sub base	N/A	As per Multibuild design information	SL72 mesh, 30 top cover	6m (9m max.)	R12 Bars at 300 max. cts.	As per Multibuild design information	Edge thickening not required for domestic applications but recommended
	Commercial	25 MPa	200 CBR15 gravel sub base	150mm thick (BR25 gravel base.	125mm	SL72 mesh, 30 top cover	6m (7.5m max.)	R16 Bars at 450 max. cts.	As per Multibuild design information	Refer to light industrial for commercial with racking loads
Н	Light Industrial	32 MPa	200 CBR15 gravel sub base	150mm thick CBR25 gravel base.	150mm	SL82 mesh, 30 top cover	6m (7.5m max.)	R20 Bars at 450 max. cts.	As per Multibuild design information	
	Medium Industrial	32 MPa	200 CBR15 gravel sub base	150mm thick CBR25 gravel base.	180mm	SL92 mesh, 30 top cover	6m (7.5m max.)	R20 Bars at 300 max. cts.	As per Multibuild design information	
	Heavy Industrial			Re	fer to e	ngineers f	or custo	m design	of slabs	

*Alternative to additional site fill, refer to engineer for internal/external beam layout

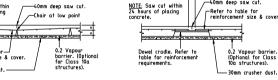
DOWELLED SAWN JOINT (DSWJ)

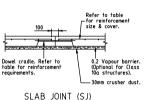
SITE CLASS	SLAB LOADING	CONCRETE STRENGTH	ADDITIONAL SITE FILL	UNDER SLAB FILL	SLAB THICKNESS	SLAB REINFORCEMENT	RECOMMENDED JOINT SPACING	DSWJ/SJ JOINT REINFORCEMENT REQUIREMENTS	FOOTINGS AT COLUMN/ MULLION LOCATION	ADDITIONAL INFORMATION
H-D	All loading		Refer to engineers for custom design of slabs							

40mm deep saw cut



SAWN JOINT (SWJ)

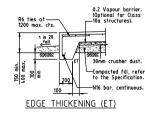


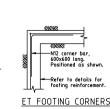


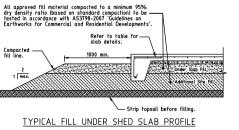


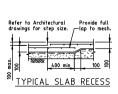
JOINTING NOTES

- 1. A DSWJ or SJ joint MUST BE provided in lieu of every THIRD SWJ joint.
- 2. Joints to be located min. 600 from column locations
- 3. Crack inducer is recommended for slabs greater than 150 thick,
- 4. Where possible, joints should be located to create square slab panels. Maximum recommended ratio of sides is 1.5:1.











TYPICAL SLAB AND FOOTING LAYOUTS FOR HAND 'H-D' CLASS SITES For BCA class 7a, 8 and 10a buildings

Edge thickening (ET) to slab -perimeter. (Not required for domestic applications).

Footing thickenings at portal -frames and mullion locations as

per Multibuild design information





gistered Certifying Engineer (Structural) N.T. gistered Engineer - (Civil) VIC

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> 02/03/2011 Registered on the NPER in the areas of practice of Civil & Structural National Professional **Engineers Register**

SITE.

DIMENSIONS TO BE VERIFIED ON

ONLY.