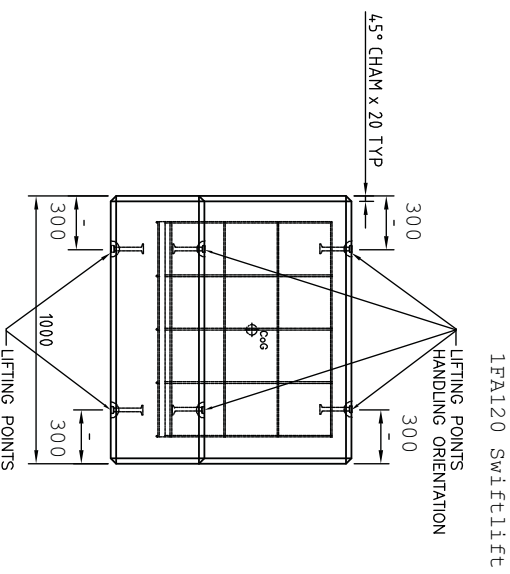


ISSUED FOR ENGINEERING	DATE	CHD
0	9.5.11	0

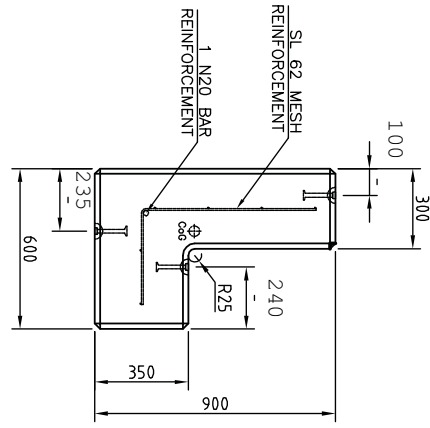


LIFTING DESIGN CERTIFICATION

*Brian F. Craig B.E.*  
Principal Engineer  
9th June 2011



LIFTED UNIT WEIGHT
935 Kg



NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT

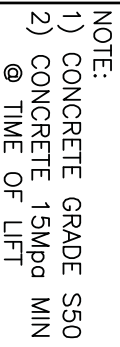
**Hummer**  
GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-1 x 1.0m

AS1100 SCALE 1:20 SIZE A1 DRAWING NO. WG10201-1

2009

1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF REINFORCING STEEL SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING 500mm & BELOW 40.00mm ABOVE 500mm 40.00mm  
CONCRETE 100mm & BELOW 1.00mm ABOVE 100mm 1.00mm  
ANGULAR 50.0°

ALL DIMENSIONS ARE IN MILLIMETRES



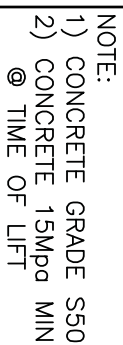
## LIFTING DESIGN CERTIFICATION



**Brian F. Craig B.E.**  
**Principal Engineer**  
**9th June 2011**

9		10	
ISSUE	DESCRIPTION	DDMMY	CHRD
0	ISSUED FOR ENGINEERING	9.5.1	0

[illegible]



REINFORCING • PRECAST • TILT-UP

9th June 2011

**F. Holden Australia Pty Ltd** **ASN 87 089 732 297**  
This drawing is exclusively our intellectual property and must not be copied or  
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written agreement. Furthermore, manufacturing of the represented objects by third  
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and criminal prosecution.

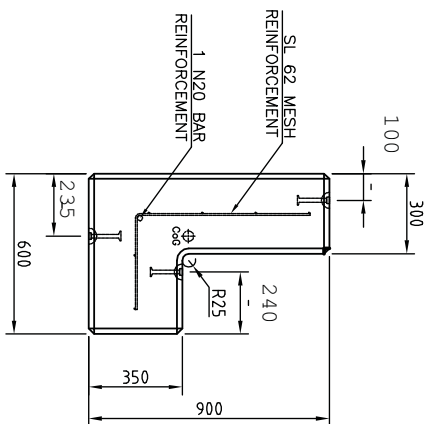
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REV	DESCRIPTION	DATE	CHG
0	ISSUED FOR ENGINEERING	9.5.11	0

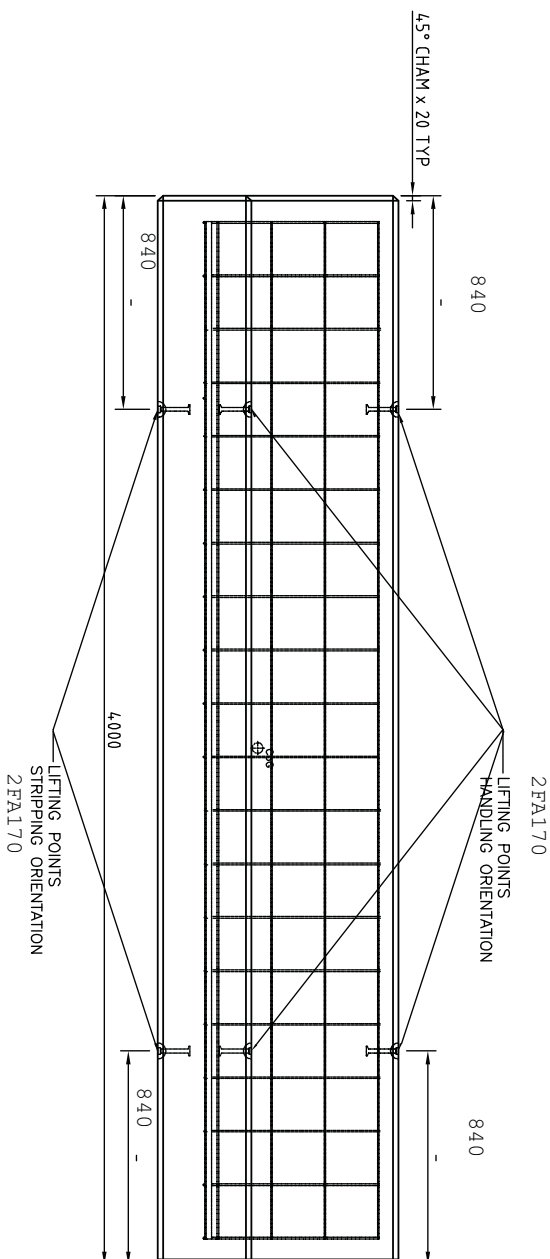


LIFTING DESIGN CERTIFICATION

Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT



LIFTED UNIT WEIGHT  
3740 Kg

**Hummer**  
TECHNICAL SERVICES - PRECAST - TILT-UP

GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-1 x 4.0m

SCALE: 1:20  
SIZE: A1  
DRAWING NO: WG10201-4

2009

1. INTERPRET DIMENSIONS, TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF REINFORCEMENT SEE AS 1100 PART 2  
3. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 3  
4. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 4  
5. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 5  
6. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 6  
7. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 7  
8. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 8  
9. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 9  
10. TOLERANCES TO DIMENSIONS AS PER AS 1100 PART 10

AS1100

1:20

A1

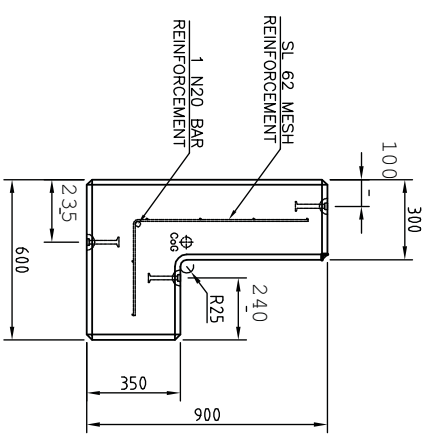
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DESCRIPTION		ISSUED FOR ENGINEERING	DATE	CHD
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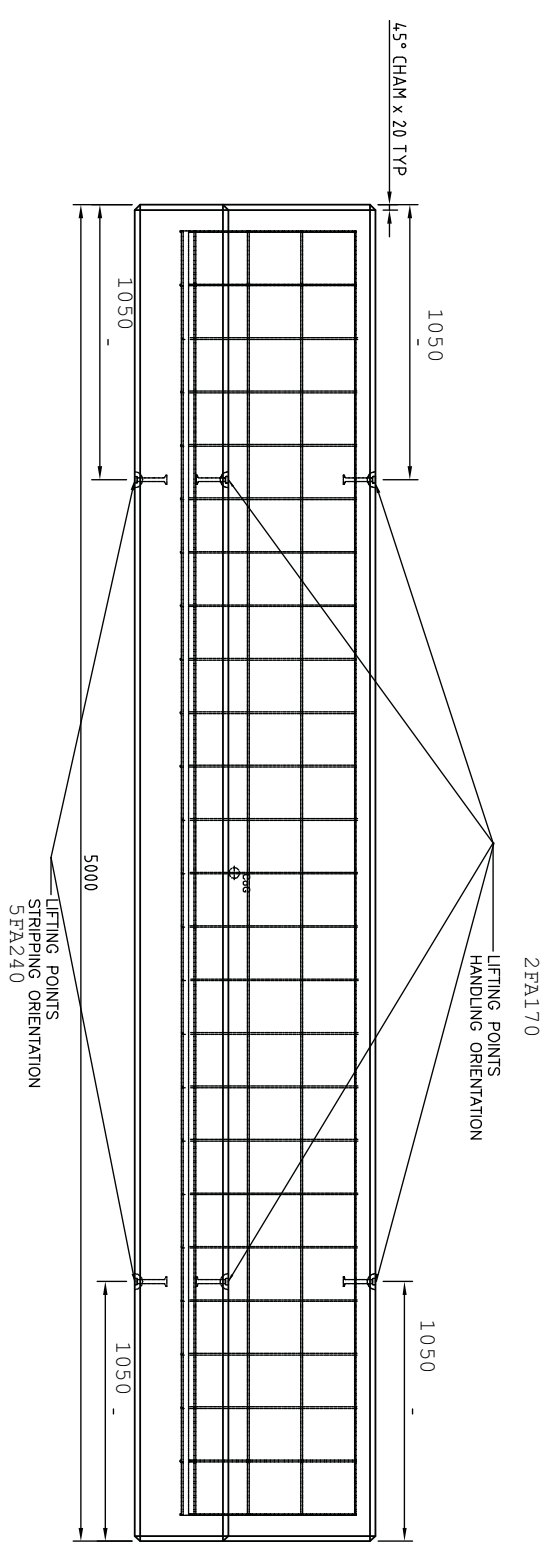


LIFTING DESIGN CERTIFICATION

  
Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT



LIFTED UNIT WEIGHT  
4688 Kg

**Hummer**  
TECHNICAL SERVICES - PRECAST - TILT-UP - AUSTRALIA

**GORGON PROJECT**  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-1 x 5.0m

DATE: 19-06-11  
SCALE: 1:20  
SIZE: A1  
DRAWING NO: WG10201-5

2009  
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
CASTING: 0.00mm & BELOW 0.10mm; ABOVE 0.00mm 0.10mm  
ANGULAR: 0.02°

ALL DIMENSIONS ARE IN MILLIMETRES



**Plumes™**  
CORCON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-2 x 1.0m

TECHNICAL SERVICES - PERTH - WESTERN AUSTRALIA

DATE 15-06-11

SCALE 1:20

AST100

DRAWING NO. WG:10201-06

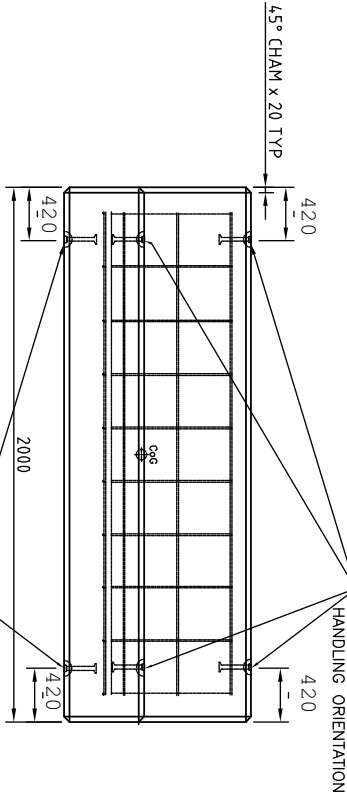
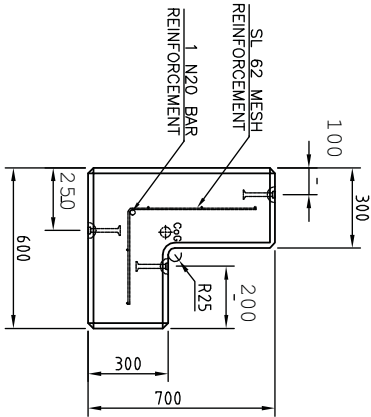
SHEET 0

ISSUED	DESCRIPTION	ISSUED	DATE	CHD
0	ISSUED FOR ENGINEERING	PRS	9.5.11	0



LIFTING DESIGN CERTIFICATION

Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



- NOTE:
- 1) CONCRETE GRADE S50
  - 2) CONCRETE 15MPa MIN @ TIME OF LIFT

LIFTED UNIT WEIGHT  
1496 Kg

Thames Australia Pty Ltd ABN 67 009 725 287  
1000 South Street, Melbourne, VIC 3006  
Tel: 03 9594 1111 Fax: 03 9594 1112  
Email: sales@thames.com.au  
Website: www.thames.com.au

2009  
UNLESS OTHERWISE SPECIFIED  
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING 0.00mm & BELOW 0.025mm ABOVE 0.00mm 0.025mm  
DIMENSIONAL 0.00mm & BELOW 0.025mm ABOVE 0.00mm 0.025mm  
ANGULAR 0.025°

ALL DIMENSIONS ARE IN MILLIMETRES

Thames  
GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-2 x 2.0m

ISSUED FOR ENGINEERING  
PRS 9.5.11 0

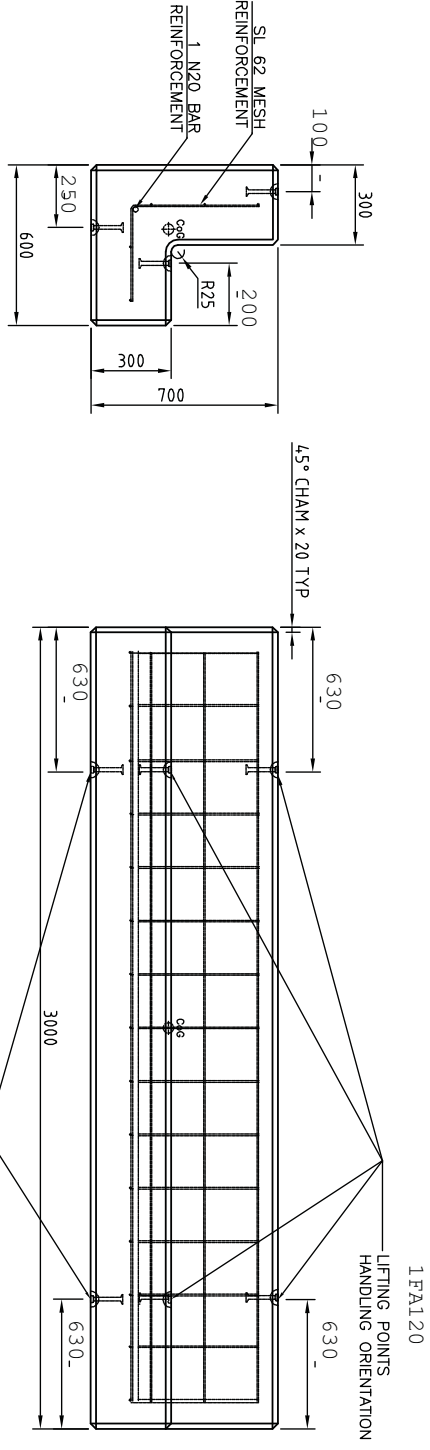
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DRAWING NO. WG10201-07  
ISSUE 0

ISSUED	REVISION	DATE	CHG
0			
ISSUED FOR ENGINEERING			
PRS	9.5.1	0	



LIFTING DESIGN CERTIFICATION

Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



LIFTED UNIT WEIGHT  
2244 Kg

NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT

**Hummer**  
GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-2 x 3.0m

AS1100  
1:20  
A1  
WG10201-08  
0

2009  
UNLESS OTHERWISE SPECIFIED  
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
DIMENSIONAL: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
ANGULAR: 0.02°

ALL DIMENSIONS ARE IN MILLIMETRES

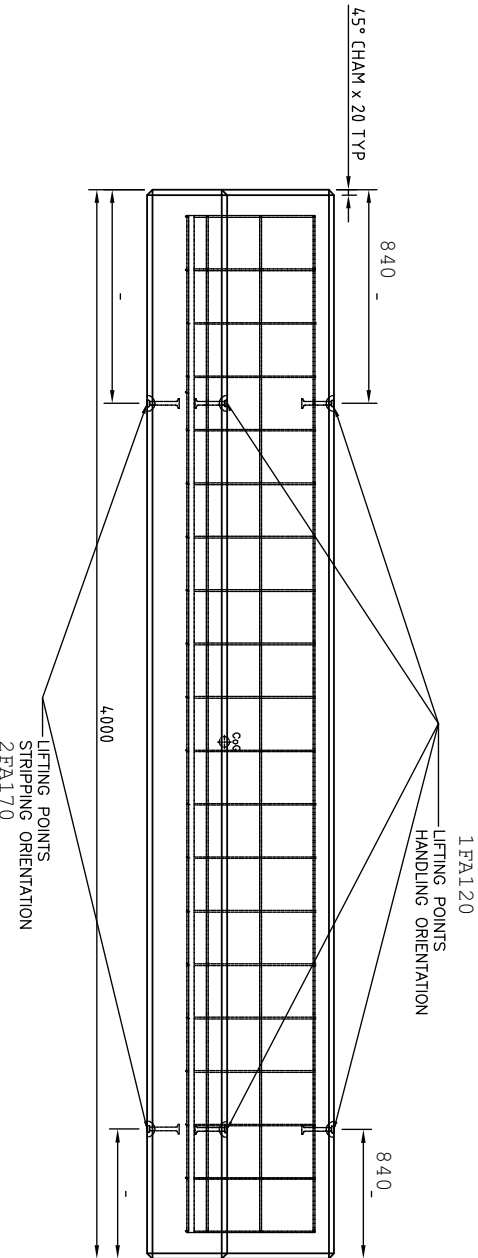


Description		Issue	Date	Drawn	Check
ISSUED FOR ENGINEERING		PRS	9.5.1	0	0



LIFTING DESIGN CERTIFICATION

Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



LIFTED UNIT WEIGHT  
2992 Kg

NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT

**Hummer**  
TECHNICAL SERVICES - PERTH - WESTERN AUSTRALIA

GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-2 x 4.0m

2009

1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 2  
2. FOR DETAILING OF MACHINE STANDS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING: 500mm & BELOW ±0.25mm; ABOVE 500mm ±0.50mm  
CASTING: 500mm & BELOW ±1.00mm; ABOVE 500mm ±2.00mm  
ANGULAR: ±0.5°

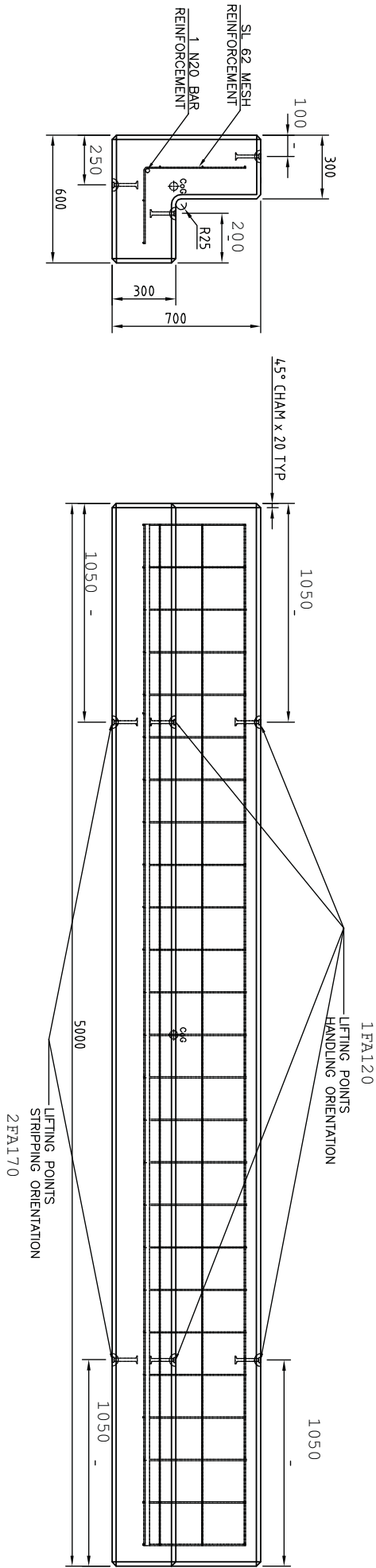
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DATE 19-06-11  
SIZE A1  
DRAWING NO. WG10201-09

Description		Issue	Date	Drawn	Check
ISSUED FOR ENGINEERING		0		PRS	9.5.1
		0		PRS	9.5.1



LIFTING DESIGN CERTIFICATION

  
Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



LIFTED UNIT WEIGHT  
3750 Kg

NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT

2009		2009	
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1		1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1	
2. FOR DETAILING OF MACHINING STRIPPS SEE AS 1100.3 - 1987		2. FOR DETAILING OF MACHINING STRIPPS SEE AS 1100.3 - 1987	
3. TOLERANCES - DIMENSIONAL		3. TOLERANCES - DIMENSIONAL	
MACHINING: 500mm & BELOW ±0.25mm ABOVE 500mm ±0.50mm		MACHINING: 500mm & BELOW ±0.25mm ABOVE 500mm ±0.50mm	
CASTING: 500mm & BELOW ±1.00mm ABOVE 500mm ±2.00mm		CASTING: 500mm & BELOW ±1.00mm ABOVE 500mm ±2.00mm	
ALL DIMENSIONS ARE IN MILLIMETRES		ALL DIMENSIONS ARE IN MILLIMETRES	

Hummer

TECHNICAL SERVICES - PERTH - WESTERN AUSTRALIA

GORGON PROJECT

LNG PLANT AREA

CABLE TRENCH PRE-CAST WALLS

PCW-2 x 5.0m

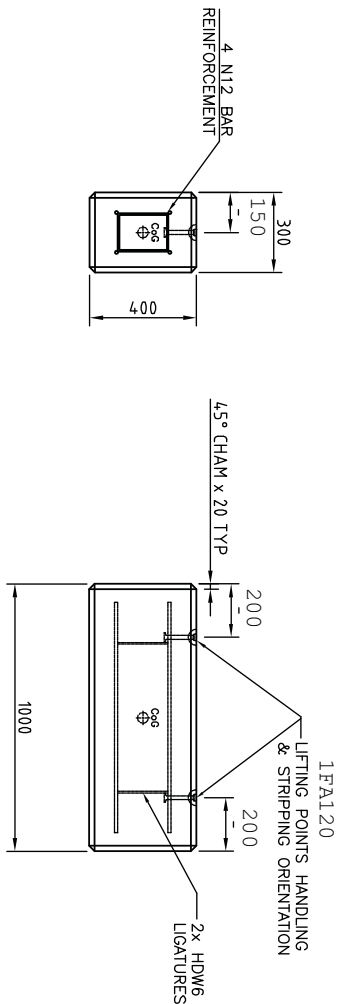
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REV	DESCRIPTION	DATE	BY
0	ISSUED FOR ENGINEERING	9.5.11	0



LIFTING DESIGN CERTIFICATION

Brian F. Craig B.E.  
Professional Engineer  
9th June 2011



NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT

LIFTED UNIT WEIGHT  
298 Kg

**Hummer**  
TECHNICAL SERVICES - PERTH - WESTERN AUSTRALIA

GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-3 x 1.0m

DATE: 19-05-11  
SCALE: 1:20  
SIZE: A1  
DRAWING NO.: WG10201-11  
ISSUE: 0

1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 2 FOR DETAILING OF REINFORCING STEEL AS PER 1907 - 1987  
2. FOR DETAILING OF REINFORCING STEEL SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING: 500mm & BELOW ±0.25mm ABOVE 500mm ±0.50mm  
CONCRETE: 500mm & BELOW ±1.00mm ABOVE 500mm ±1.50mm  
ANGULAR: ±0.5°

ALL DIMENSIONS ARE IN MILLIMETRES

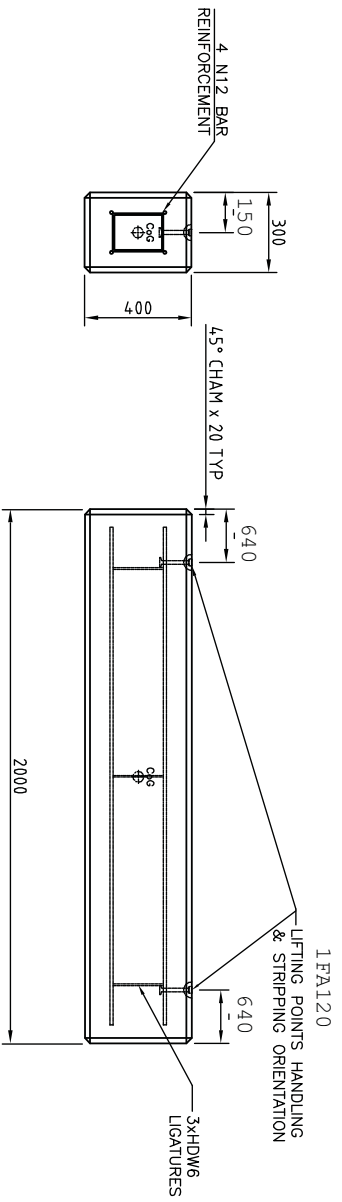
1. UNLESS OTHERWISE SPECIFIED  
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7. UNLESS OTHERWISE SPECIFIED  
8. UNLESS OTHERWISE SPECIFIED  
9. UNLESS OTHERWISE SPECIFIED  
10. UNLESS OTHERWISE SPECIFIED

ISSUED	DESCRIPTION	DATE	CHD
0	ISSUED FOR ENGINEERING	PRS 9.5.1	0



LIFTING DESIGN CERTIFICATION

  
Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15Mpa MIN  
@ TIME OF LIFT

LIFTED UNIT WEIGHT  
596 Kg

**Hummer**  
TECHNICAL SERVICES - PRECAST - TILT UP

GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-3 x 2.0m

AS1100 SCALE 1:20 SIZE A1 DRAWING NO. WG10201-12

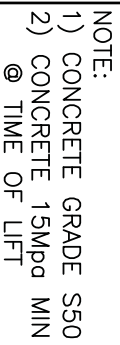
DATE 19-05-11

ISSUE 0

2009

1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING 500mm & BELOW 40.00mm ABOVE 500mm 40.00mm  
DIMENSIONAL 300mm & BELOW 1.00mm ABOVE 300mm 1.00mm  
ANGULAR 50.0°

ALL DIMENSIONS ARE IN MILLIMETRES



LIFTED UNIT WEIGHT
894 Kg

9		10	
ISSUE	DESCRIPTION	DDMM	CHNO
0	ISSUED FOR ENGINEERING	PRS	9.5.1 0

## LIFTING DESIGN CERTIFICATION

**Brian F. Craig B.E.**  
**Principal Engineer**  
**9th June 2011**

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DRAWN  
P/S 19-05-1

Humes

GOROGON PROJECT

LNG PLANT AREA

## CABLE TRENCH PRE-CAST WALLS

PCW-3 x 3.0m

FILE	SIZE	DRAWING NO.
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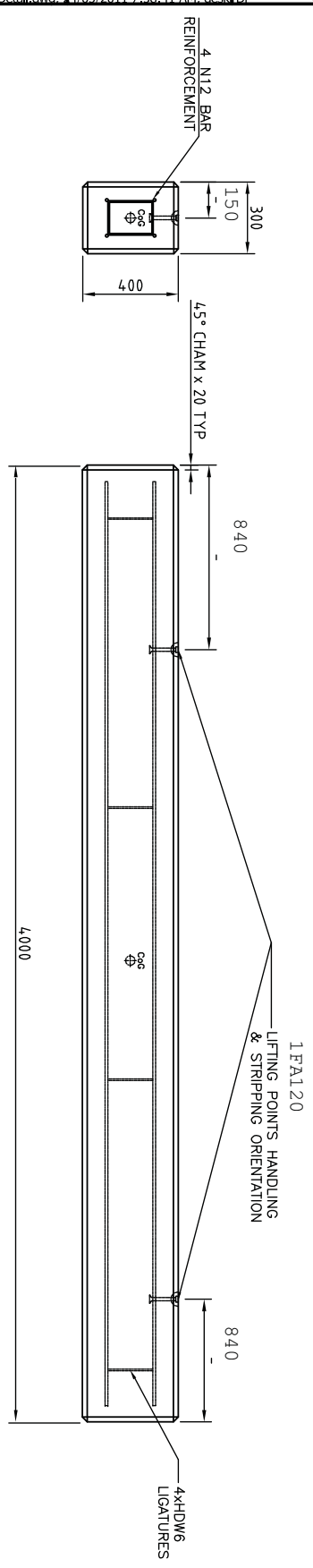
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ISSUED	DESCRIPTION	DATE	CHD
0	ISSUED FOR ENGINEERING	PRS 9.5.1	0



LIFTING DESIGN CERTIFICATION

  
Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15MPa MIN  
@ TIME OF LIFT

LIFTED UNIT WEIGHT  
1192 Kg

**Hummer**  
TECHNICAL SERVICES - PERTH - WESTERN AUSTRALIA

GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-3 x 4.0m

2009  
UNLESS OTHERWISE SPECIFIED  
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3-1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING 500mm & BELOW 40.00mm ABOVE 500mm 40.00mm  
DIMENSIONAL 300mm & BELOW 1.00mm ABOVE 300mm 1.00mm  
ANGULAR 50.0°

AS1100 1:20 A1  
SCALE SIZE DRAWING NO. ISSUE

19-05-11  
DATE

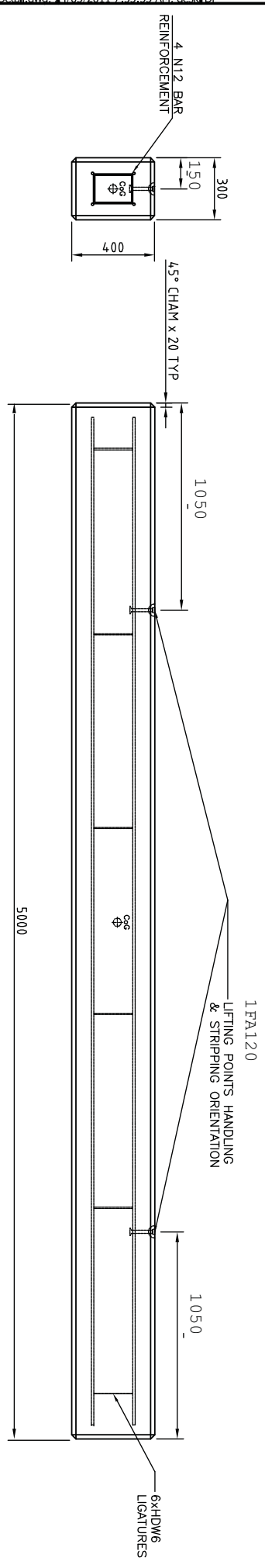
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ISSUE

Description		Issue	Date	Chd
ISSUED FOR ENGINEERING		PRS	9.5.1	0



LIFTING DESIGN CERTIFICATION

  
Brian F. Craig B.E.  
Principal Engineer  
9th June 2011



LIFTED UNIT WEIGHT  
1490 Kg

NOTE:  
1) CONCRETE GRADE S50  
2) CONCRETE 15Mpa MIN  
@ TIME OF LIFT

**Hummer**  
TECHNICAL SERVICES - PERTH - WESTERN AUSTRALIA

GORGON PROJECT  
LNG PLANT AREA  
CABLE TRENCH PRE-CAST WALLS  
PCW-3 x 5.0m

2009  
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
DIMENSIONAL: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
ANGULAR: 0.02°

UNLESS OTHERWISE SPECIFIED  
1. INTERPRET DIMENSIONAL TOLERANCES AS PER AS 1100 PART 1  
2. FOR DETAILING OF MACHINING SYMBOLS SEE AS 1100.3 - 1987  
3. TOLERANCES - DIMENSIONAL  
MACHINING: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
DIMENSIONAL: 0.00mm & BELOW 0.025mm; ABOVE 0.00mm 0.025mm  
ANGULAR: 0.02°

AS1100  
1:20  
A1  
WG10201-15