
WirraWonga Pty Ltd
Building Act 1993
Building Regulations 2006
Regulation 1507: Certificate Of Compliance - Design

To: The Relevant Building Surveyor

From: David J. Plant B.Eng.
Category/Class: Civil Engineer
Postal address: 36 Raymond Street
Blackburn North 3130
Ph. 9878 6666, Fax 8812 2699

PROPERTY DETAILS

Address 50 Filter Street Pipeville 3987
Lot: 1
Municipal District: Mansfield

COMPLIANCE

I did prepare the design and I certify that the part of the design described as:
Proposed Reinforced Concrete Swimming Pool

Details Pool Hydraulics
Filtration Loop
Solar Loop

complies with the following provisions of the Regulations:

AS 1926.3 - 2010

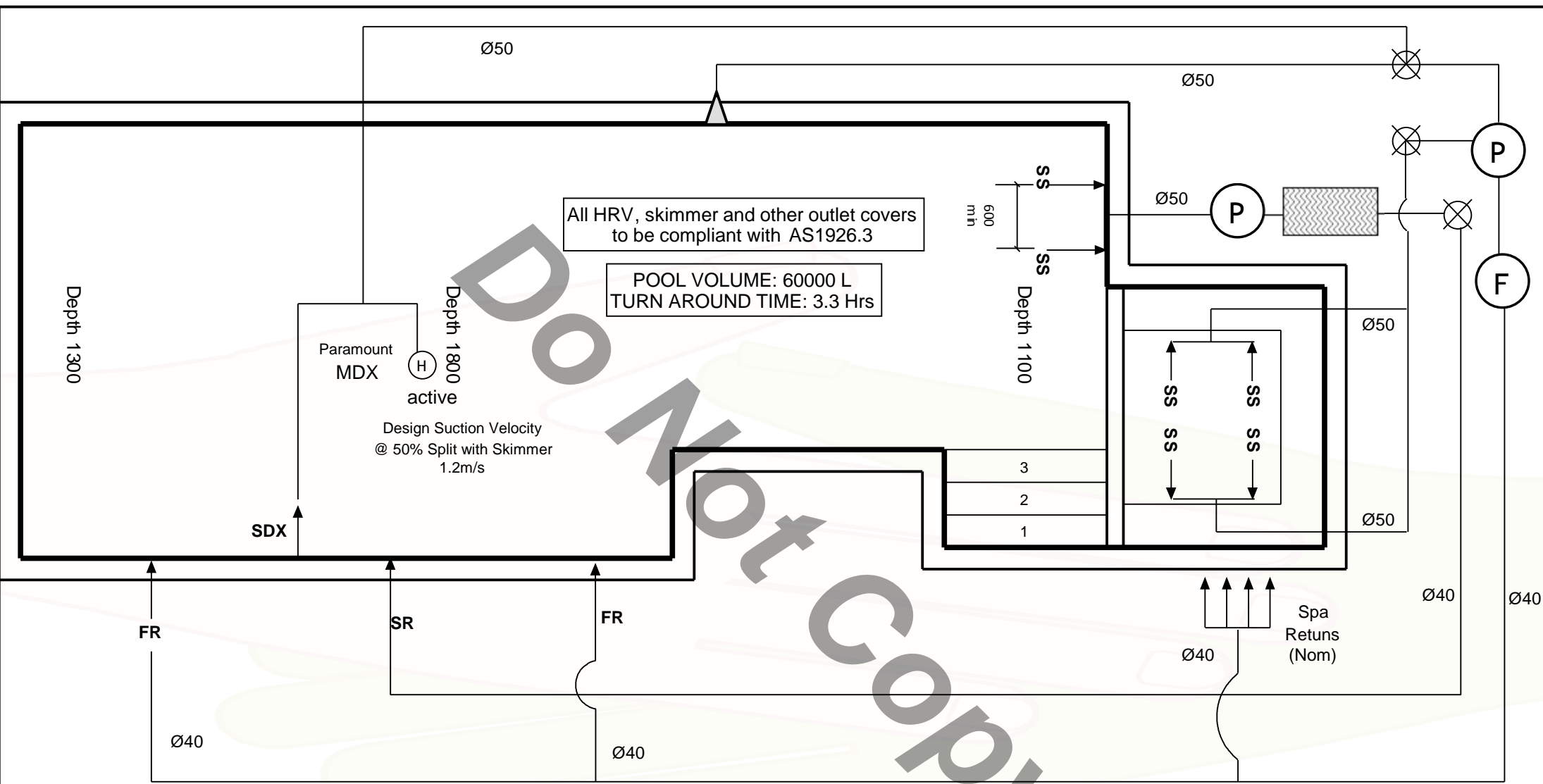
	Number	Sheets	Prepared by:	Date:
<input type="checkbox"/> Drawings	11-9999	1	David Plant	7/07/2011
<input type="checkbox"/> Specifications	Generic		David Plant	7/07/2011
<input type="checkbox"/> Computations	11-9999	1	David Plant	7/07/2011
<input type="checkbox"/> Reports				
<input type="checkbox"/> Notes				

SIGNATURE



B.Eng, EC-16265
7/07/2011
WirraWonga Pty Ltd.

7/07/2011



All HRV, skimmer and other outlet covers to be compliant with AS1926.3

POOL VOLUME: 60000 L
TURN AROUND TIME: 3.3 Hrs

Paramount MDX (H) active
Design Suction Velocity @ 50% Split with Skimmer 1.2m/s

LEGEND skimmer filter (F) pump (P) valve non return valve suction ← S return → R HRV (H) solar array

DESIGN RESULTS: refer to computations for details	
Filter Pump	Pentair Max-E-Pro 1.5HP - OK
Max. Filter Flow Rate	375 LPM Pentair Tagelus TA100D - OK
Solar Pump	Hurlcon CTX280 1.0HP - OK
Filter/Solar Suction Lines DIA.	50 mm
Delivery/Return Lines DIA.	40 mm

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DESIGN CRITERIA: details provided by Builder/Owner	
Pool Length	10 m
Pool Width	4 m
Dist. Skimmer to Pump	10 m (approx)
Dist. Solar Suction to Pump	15 m (approx)

POOL FILTRATION & SOLAR LOOP

36 & 42 Raymond Street Blackburn 3130
Phone: 03 9878 6666 Fax: 03 8812 2699



Scale: 1:50 (A4)	Date: 07/2011
Dwg: 11-9999	Sheet: 1
Drawn: DJP	Issue: Permit
Designer:	Checked:

Whirlwind Pools
50 Filter Stree
Pipeville 3987

Contract

job 11/9999

Pool Hydraulics Summary Computations

FILTER LOOP		Pass
Design Duty Point	334 LPM @ 10.5 m	OK
Estimated Pool Turn Around Time	3.3 hours	OK
Computed Suction Flow Rate (Max) @ 50% split with Skimmer	1.23 m/s	OK
Number of Safety Suctions to Loop	1 required	OK
Suction Cover Type	Skimmer Box	OK
	Paramount SDX/MDX	OK
Suction Cover Flow Rating	MDX 340 LPM	OK
	SDX 378 LPM	OK
Number of Returns Lines	2 required	OK

SOLAR LOOP		Pass
Design Duty Point	200 LPM @ 12.7 m	OK
Estimated Turn Around Time	5.5 hours	OK
Computed Suction Flow Rate (Max)	1.47 m/s	OK
Number of Safety Suctions to Loop	1 required	OK
Suction Cover Type	Paramount SDX	OK
Suction Cover Flow Rating	378 LPM	OK

INFLOOR CLEANING LOOP		Pass
Design Duty Point	N/A	N/A
Estimated Turn Around Time	N/A hours	N/A
Computed Suction Flow Rate (Max)	N/A m/s	N/A
Number of Safety Suctions to Loop	N/A required	N/A
In Floor Nozzle Flow Requirement	N/A	N/A

SPA FILTER LOOP		Pass
Design Duty Point	334 LPM @ 10.5 m	OK
Estimated Turn Around Time	3.3 hours	OK
Number of Safety Suctions to Loop	2 required	OK
Suction Cover Type	Paramount SDX	OK
Suction Cover Flow Rating	378 LPM	OK
Number of Return Lines	2 min required	OK