



FENESTRATION CALCULATIONS



Erf No.:	ERF 15, SUNDRIDGE	
Existing Erf Area:	1299 sqm	
Existing floor Area:	394 sqm	
New floor Area:	13 sqm	
Total Floor Area:	407 sqm	
Ex. Coverage:	394 sqm	- 30.33%
Prop. Coverage:	13 sqm	- 1.00%
Total Coverage:	407 sqm	- 31%
NEW GARAGES:	0	
NEW BATHROOMS:	0	

	(Permitted)	(Proposed)
Zoning:	Single Res 1	Single Res 1
Height Restriction:	8.5M	8.5M
BUILDING LINE FRONT	3000mm	3000mm
BUILDING LINE SIDES	1500mm	1500mm
BUILDING LINE REAR	3000mm	3000mm
Ex. Coverage:	-----	394 sqm - 30.33%
Prop. Coverage:	-----	13 sqm - 1.009%
Total Coverage:	779 sqm - 60%	407 sqm - 31%
FSI	0.60	0.31

		REQUIREMENTS	ACTUAL				STATUS
1	DESIGN	The orientation is in accordance with the requirements of 5.1	Building facing North/South with longest axis orientated East/West				In order
2	SHADING	The shading is in accordance with the requirements of 5.2	See Fenestration calculations				In order
3	FENESTRATIONS & ROOF LIGHTS	The fenestration is in accordance with the requirements of 5.3	See Fenestration calculations				In order
4	FLOOR INSULATION for under floor heating	The floors are in accordance with the requirements of 5.4 5.4.1. Surface bed (Heated) 5.4.2. Suspended (Exposed) R-value ≥ 1.00	Under slab:		mm	W/m.K	R-Val.
			EPS (Isover insulation)	15	0.038	0.39	N/A
			EPS (Isover insulation)	30	0.033	0.91	
			Total R-value:	Req. ≥ 1.0	1.30		
5	EXTERNAL WALLS Surface density > 270kg/m²	The external walls are in accordance with the requirements of 5.5 Zone 4: 50mm Cavity wall: R-value ≥ 0.6	External wall:		mm	W/m.K	R-Val.
			Outer Air-film (1/20)	1000	20	0.05	In order
			10mm plaster	10	0.75	0.01	
			110mm Brick	110	0.82	0.13	
			Air-spaces	1000	6.8	0.15	
			Isover cavity insulation	000	0.04	0.00	
			110mm Brick	110	0.82	0.13	
			10mm plaster	10	0.75	0.01	
			Inner Air-Film (1/9.4)	1000	9.4	0.11	
			Total R-value:	Req. ≥ 0.6	0.6		
			FLAT SKILLION	mm	W/m.K	R-Val.	
6	ROOF & CEILING ASSEMBLY. ONLY APPLICABLE TO NEW ENTERTAINMENT SPACE ROOF.	The roof and ceiling assemblies are in accordance with the requirements of 5.6 Zone: Direction of Flow: UP FLAT SKILLION with horizontal ceiling	Outer Air-film (1/20)		n/a	n/a	0.05
			EPDM & Shutterfly	22.0	0.12	0.18	In order
			Air-space & reflective foil	n/a	n/a	0.49	
			Polyurethane foam	100	0.035	2.86	
			Gypsum Ceiling	6.40	0.17	0.04	
			Inner Air-Film (1/11.0)	n/a	n/a	0.09	
			Total R-value:	Req. ≥ 3.7	3.71		
7	BUILDING SEALING	The building sealing is in accordance with the requirements of 5.7	A foam or rubber compressible strip or a fibrous seal to restrict air leakage shall be fitted to each edge of an external door and other such opening that serves a habitable room. The maximum air leakage for windows and doors shall comply with the requirements of SANS 613.				In order
8	HOT WATER Classification H4	The building hot water is in accordance with the requirements of 6.1 Persons per Bedroom: 2 Number of Bedrooms: 3 2 Persons per bedroom x 3 Number of bedrooms = 6 Occupancy	EXISTING BEDROOMS. NO ADDITIONAL BEDROOMS ADDED.				In order
			EXISTING BEDROOMS. NO ADDITIONAL BEDROOMS ADDED.				In order
			EXISTING BEDROOMS. NO ADDITIONAL BEDROOMS ADDED.				
			Closed cell elastomeric thermal insulation				In order
			mm	W/m.K	R-Val.		
			38	0.036	1.06		
			Total R-value:	Req. 1.0	1.06		
9	LIGHTING Classification H4	The building lighting is in accordance with the requirements of 6.2	LED & CFL deemed to comply with Table 12 for H3 & H4				In order

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ADDITIONS AND ALTERATIONS ON **ERF**
15, SUNRIDGE, PORT ELIZABETH FOR **M**
& Mrs Le Roux

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28 Aug 2024

PROFESSIONAL SIGNATURE

ERF NO:	15, SUNRIDGE
ERF AREA:	1299 sqm
EXISTING AREA:	394 sqm
NEW AREA:	13 sqm
TOTAL AREA:	407 sqm
EX. COVERAGE:	394 sqm - 30%
NEW COVERAGE:	13 sqm - 1%
TOTAL COVERAGE:	407 sqm - 31%
NEW GARAGES:	0
NEW BATHROOMS:	0
POOL:	NO
BOUNDARY WALLS:	0 M
AGE OF BUILDING:	<60



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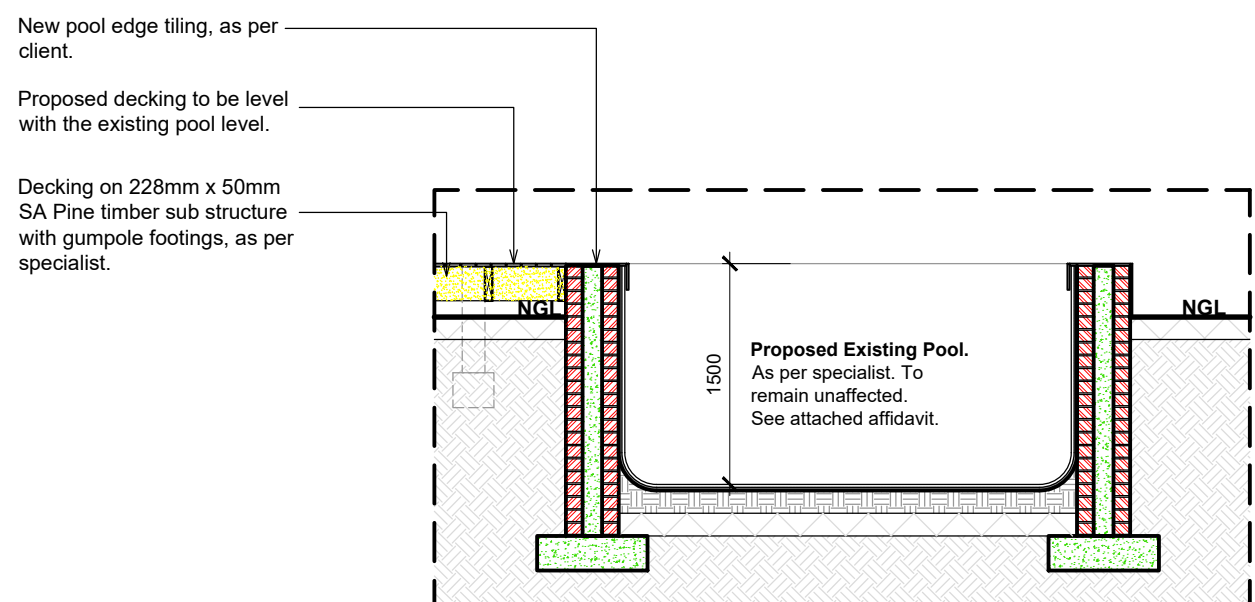
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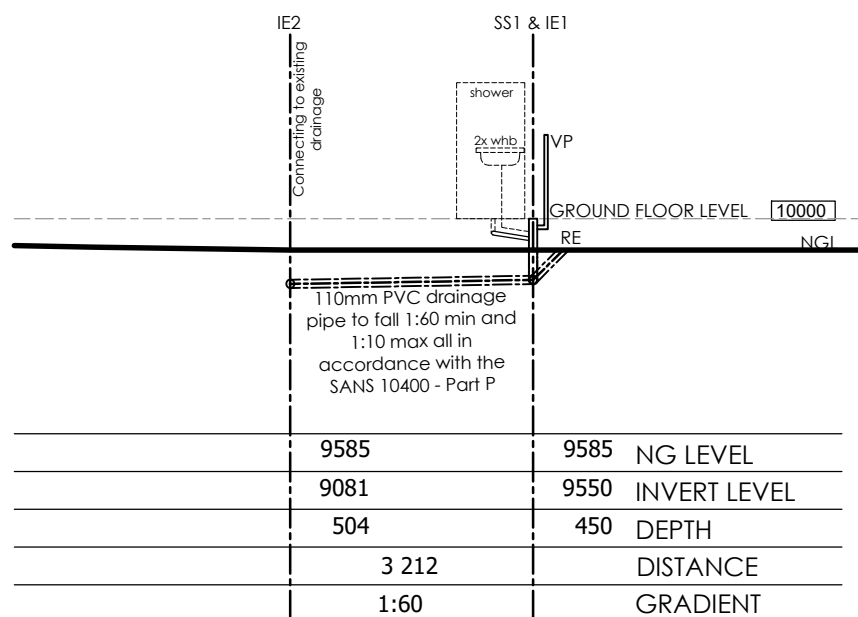
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POOL SECTION

SCALE : 1:50



MASTER EN-SUITE / DRAINAGE SECTION

SCALE : 1:50