



**FENESTRATION CALCULATION
NATURAL VENTILATION**

Window to floor area ratio for Storey 1 is 15.33 %

CONSTANTS

Conductance Constant for Storey 1 is 113.98 X 1.40 = 159.57
SHG Constant for Storey 1 is 113.98 X 0.13 = 14.82

CONDUCTANCE

Conductance of Window is 2.70 X 7.90 = 21.33
Conductance of Window is 0.28 X 7.90 = 2.21
Conductance of Window is 1.08 X 7.90 = 8.53
Conductance of Window is 2.70 X 7.90 = 21.33
Conductance of Window is 0.81 X 7.90 = 6.40
Conductance of Window is 2.70 X 7.90 = 21.33
Conductance of Window is 3.78 X 7.90 = 29.86
Conductance of Window is 1.26 X 7.90 = 9.95
Conductance of Window is 1.35 X 7.90 = 10.66
Conductance of Window is 0.81 X 7.90 = 6.40

Total Conductance for Storey 1 is 138.01 PASS

SOLAR HEAT GAIN

NORTH

Solar heat gain of Window (P=600.00, G=300.00, P/H=0.33) is 2.70 X 0.81 X 0.4 = 0.87
Solar heat gain of Window (P=600.00, G=300.00, P/H=0.60) is 0.28 X 0.81 X 0.3 = 0.07
Solar heat gain of Window (P=600.00, G=300.00, P/H=0.50) is 1.08 X 0.81 X 0.33 = 0.29
Solar heat gain of Window (P=600.00, G=300.00, P/H=0.29) is 2.70 X 0.81 X 0.44 = 0.96

EAST

Solar heat gain of Window (P=600.00, G=300.00, P/H=0.50) is 0.81 X 0.81 X 0.66 = 0.43

SOUTH

Solar heat gain of Window (P=600.00, G=300.00, P/H=0.33) is 2.70 X 0.81 X 0.38 = 0.83
Solar heat gain of Window (P=600.00, G=300.00, P/H=0.25) is 3.78 X 0.81 X 0.42 = 1.29
Solar heat gain of Window (P=600.00, G=300.00, P/H=0.25) is 1.26 X 0.81 X 0.42 = 0.43
Solar heat gain of Window (P=600.00, G=300.00, P/H=0.33) is 1.35 X 0.81 X 0.38 = 0.42

WEST

Solar heat gain of Window (P=600.00, G=300.00, P/H=0.50) is 0.81 X 0.81 X 0.83 = 0.54

Total Solar Heat Gain for Storey 1 is 6.13 PASS

AREA SCHEDULE:

NEW DWELLING:	149.94m ²
TOTAL:	149.94m ²
ERF:	300m ²
COVERAGE:	49.98%

GARDEN ROUTE HOUSE PLANS

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PROJECT TITLE:	NEW DWELLING
FOR OWNER:	SEEGENOT ONTWIKKELING
ERF NO:	1123
TOWNSHIP:	TERGNIET
MUNICIPALITY:	MOSSSEL BAY
CREATED BY:	ENGELA MOGGEE
DATE:	FEBRUARY 2018
DRAWING:	
SHEET:	001
SCALE:	-----
OWNER'S SIGNATURE:	
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