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Shading—if required is to be in accordance with 4.3.

ROOF ASSEMBLY CONSTRUCTION
To be in accordance with 4.4 2 SANS 10400XA (Table 7)
1. A roof assembly shall achieve the minimum total R-valum (Table 7)
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1. A reflective incultation shall be installed as per 4.3.6.2 of SANS 204.

HOT WATER SUPPLY
To be in accordance with 4.1 SANS 10400XA
To be insulated with property of the service of the service with 4.1 of SANS 10400
To be insulated with pipe insulation material with an Rvalue in accordance with 4.1 of SANS 10400
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To be insulated with pipe in

EXTERNAL WALLS:

INDICATE SHIP A 4.3 of XANCS LIMILUX.

1. Non-measonly to comply with requirements of 4.4.3.1 of Part XA. Walls shall achieve a minimum total R-value of Climatic zones 1 and 6:22.

Climatic zones 2, 3.4 and 5:3.7

EBMESTRATION:
To be in accordance with 4.4.4 of SANS 10400 PART XXI SANS 204.
1. Buildings with up to 15 % (nesetration area to net floor area per stoney comply with the minimum energy performance requirements.
2. Buildings with up to 15 % (nesetration area to net floor area per stoney to the accessed 15 % shall comply with the requirements for lensestration in accordance with SANS 204.

IN-SLAB HEATING
To be in accordance with 4.4.2 of SANS 10400XA - Where in-slab heating is used then insulation required under the slab. (R-value not less than 1)

PRESCRIPTIVE ROUTE / DEEMED-TO-SATISFY OF SANS XA / 204 COMPLIANCE - FOR APPLICABLE APPLICATION ONLY ORIENTATION AND SHADING: Compliance not required - Due to additions & alterations to existing building.

Compliance not required - Refer to SANS XA general notes above. IN-SLAB HEATING: COMPLIANCE ACHIEVED
- Required R-value = 2.7
- Achieved R-value = 3.05 (0.55 R-value + 2.50 R-value (roof assembly + 100mm thick Aerolite Insulation)) ROOF ASSEMBLY CONSTRUCTION

COMPLIANCE ACHIEVED - SUITABLE HEAT PUMP/ SOLAR PANEL TO BE INSTALLED TO SPECIALIST DETAILS & SANS102S2

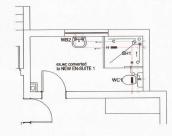
- Assumed Hith water consumption per Lospitalisty

- 4 Second - 4 Secon HOT WATER SUPPLY:

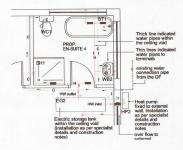
Assumed Polit water consumption of Licipitation = 10 cools = 10 co

COMPLIANCE ACHIEVED - Refer to SANS XA general notes above. EXTERNAL WALLS: FENESTRATION: COMPLIANCE ACHIEVED - Refer to SANS XA general notes above and calculation below ROOM AREA PERMISSIBLE FENESTRATION AREA ACHIEVED FENESTRATION AREA ROOM NAME EN-SUITE 1 8.8m² 1.3m² (15% of 8.8m²) 0.46m² (excluding frames)

EN-SUITE 2 13.5m² 2.1m2 (15% of 13.5m2) 2.0m2 (excluding frames) EN-SUITE 4 1 2m2 (15% of 8m2) 1.0m2 (excluding frames) 2.0m2 (excluding frames) EN-SUITE 5 16.2m² 2.4m2 (15% of 16.2m2) Ex.bedrrom 5 + LIVING AREA and 8.2m² (15% of 54.2m²) 54.2m² KITCHENETTE 1 (open plan) 3.5m² (15% of 23.1m²) 2.8m² (excluding frames) DOMESTIC QUARTERS 23.1m<sup>2</sup> 0.36m² (excluding frames) 1.3m2 (15% of 8.8m2) DOMESTIC QUARTERS EN-SUITE 6 8.8m²



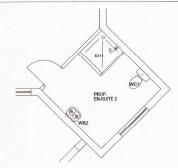
GROUND FLOOR



**SCALE 1:50** 

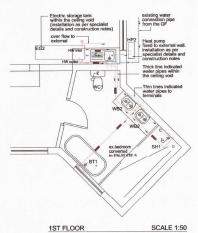
1ST FLOOR SCALE 1:50

REFER TO WATER RETICULATION **CALCULATION ELSEWHERE** 



GROUND FLOOR

**SCALE 1:50** 



Client Signature(s): Author name: SACAP Reg #:

SUBMISSION

Client name(s): Terret Flizabeth Brown

SHEET \_\_/\_ ONLINE-COPY

ETHEKWINI MUNICIPALITY 21040079

APPLICATION NUMBER

**BUILDING APPLICATION** 

APPROVED in terms Section 7 of the National Building Regulations and Building Standards Act No. 103/1977

2/07/21 LOCAL AUTHORITY
This plan is approved on the basis of the information shown herein.
Attention is drawn to the attached documentation & that this approve
shall algae ONE year after the above approved date, unless the
erection of the building in terms of NBR Act 103/1977 is commenced.



Project ADDITIONS & ALTERATIONS TO EXISTING DWELLING AT, 477 MUSGRAVE ROAD.

ESSENWOOD, DURBAN ON PORTION 13 OF ERF 2178 ENERGY CALCULATIONS
WATER RETICULATION LAYOUT

CH 02.2020 7320 1002

Bheki Mpala (Pr. Eng.) Pr. No.: 20090258 Mobile: +27(0)72 340 9650 2020 0 9 28 Date:.... Signeture: UBS &

NEIGHBORS RELAXATION BLOCK				
NAME & SURNAME	ID NUMBER	LOT / ADDRESS	CONTACT NO.	SIGNATURE
KUN INDUNINGHENY	1 4900110126029	479 487 KLOSGRANGE RO. BEREA 4001	TET 848PIRO	Ktipi

