RECORD Inspection Report Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

| | | g_DFC Lecturin | | | | | |
|---|--|--------------------------------------|---|---|---|--|--------------------|
| Client Information | | | Building I | Location | | | |
| Company Name: Univers | sitv of Johannesbura | | | | : 23 Annet Rd, | Cottesloe, Joha | nnesbur |
| Building Name: DFC Lea | | | | | | | |
| - | | | | City | Johannesbur | g | |
| | | | | Province | : Gauteng | | |
| | | | | | | | |
| Client Representative | | | Building I | nformation (from S | ANS 10400- | (A:2021) | |
| Name: Masala | n Mbambeleli | | | Energy Zone | | 1 | |
| Contact Number: (078) 6 | 67 1760 | | | Occupancy Class | : | A3 | |
| E-mail Address: mmasa | ıla@uj.ac.za | | Referen | ce Energy Consumption | : | 110 | |
| Building Assessment Diaming | | | | *fro | om SANS10400 | I-XA : 2021 | |
| Building Assessment Planning | | | | | | | |
| He she have she identified the seven | | | | Surname of the person v | vho represente | d the property | |
| Has the Inspector identified the person who will assist the Inspector during the assessment? | Y | es | Masala Mba | ambeleli | | | |
| | | | | Date of the Inspection | | 2022/10/06 | |
| Has the Inspector phoned the inspection | Y | es | | Start Time | | 9:00 am | |
| assistant to inspection arrangements? | | | | Duration | | 30 minutes | |
| Did the Inspector share the Building | | | - | | | | |
| Has the Inspector confirmed the site | | | | | | | |
| Health & Safety arrangements? | N | lo | | | | | |
| Health & Safety arrangements? Details on when and how Building Assessment Met | | | | Details on Health and S | afety considera | tions | |
| | | | General H& | Details on Health and S | afety considera | tions | |
| Details on when and how Building Assessment Met | | | General H& | | afety considera | tions | |
| Details on when and how Building Assessment Met | | | General H& | | afety considera | tions | |
| Details on when and how Building Assessment Met | | | General H& | | afety considera | tions | |
| Details on when and how Building Assessment Met Shared by Nikhil Naidoo to the client rep | chod Statement was shar | | | | afety considera | tions | |
| Details on when and how Building Assessment Met Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: | chod Statement was shar | ed | | S considerations apply Operations | afety considera | tions | |
| Details on when and how Building Assessment Met | chod Statement was shar | ed 01/01 | Building (| S considerations apply Derations of Assessment: gle or Multiple Tenants' | • | tions Single | |
| Details on when and how Building Assessment Met shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: | thod Statement was shared to the statement with the statement will be stateme | ed 01/01 | Building (| S considerations apply Dperations of Assessment: | • | | |
| Details on when and how Building Assessment Met hared by Nikhil Naidoo to the client rep Confirmation by Building Representative: lear of Assessment Start lear of Assessment End | thod Statement was shared to the statement with the statement will be stateme | ed 01/01 | Building (During the Year Sin Confirm | S considerations apply Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% | • | Single | |
| Details on when and how Building Assessment Met thared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment Start Year of Assessment End | thod Statement was shared to the statement with the statement will be stateme | ed 01/01 | Building (During the Year Sin Confirm | Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% Operating Hours | | Single 100% | |
| Details on when and how Building Assessment Met Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment End Energy Carriers During the Year of Assessment: | : 2021/ | 01/01 112/31 | Building (During the Year Sin Confirm Building (| S considerations apply Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% Operating Hours | ?) | Single 100% hours/day | hours/week |
| Details on when and how Building Assessment Met ithered by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment Start Year of Assessment End Energy Carriers Uning the Year of Assessment: | thod Statement was shared by the statement was shared by t | 01/01 112/31 | Building (During the Year Sin Confirm Building (| Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% Operating Hours Start 07:00:00 | End 18:00:00 | Single 100% hours/day | 44 |
| Details on when and how Building Assessment Met thered by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment Start Year of Assessment End Energy Carriers Did the building use grid supplied e Did the building use grid supplied e | thod Statement was shared as a | 01/01 112/31 | Building (During the Year Sin Confirm Building (Mon to Thurs Fridays | Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% Operating Hours itart 07:00:00 07:00:00 | End 18:00:00 18:00:00 | Single 100% hours/day 11 11 | 44 11 |
| Details on when and how Building Assessment Met Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment Start Year of Assessment End Energy Carriers During the Year of Assessment: Did the building use grid supplied e Did the building use solar PV e | : 2021/ 2021/ 2021/ Selectricity? Niesel fuel? | 01/01 01/01 112/31 | Building (During the Year Sin Confirm Building (Mon to Thurs Fridays Saturdays | Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% Operating Hours Start 07:00:00 00:00:00 | End 18:00:00 18:00:00 00:00:00 | Single 100% hours/day 11 11 0 | 44 11 0 |
| Details on when and how Building Assessment Met Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Vear of Assessment Start Vear of Assessment End Energy Carriers Did the building use grid supplied e Did the building use Solar PV e Did the building use olar PV e Did the building use d | : 2021/ 2021/ 2021/ Pelectricity? N liesel fuel? y us gas 9 | 01/01 01/01 112/31 | Building (During the Year Sin Confirm Building (Mon to Thurs Fridays | Operations of Assessment: gle or Multiple Tenants' Building Occupancy (% Operating Hours itart 07:00:00 07:00:00 | End 18:00:00 18:00:00 | Single 100% hours/day 11 11 0 0 | 44 11 0 0 |
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| Details on when and how Building Assessment Met Shared by Nikhil Naidoo to the client rep Confirmation by Building Representative: Year of Assessment Start Year of Assessment End Energy Carriers During the Year of Assessment: Did the building use grid supplied e Did the building use solar PV e Did the building use any solid fuel fe Was energy exported from the Net Floor Area (are these on the plans?) Building layout during the year of a Stor Parking areas and ba | : 2021/ 202 | ed | Building (During the Year Sin Confirm Building (Mon to Thurs Fridays Saturdays Sundays | Operations of Assessment: gle or Multiple Tenants's Building Occupancy (% Operating Hours Start 07:00:00 07:00:00 00:00:00 00:00:00 | End 18:00:00 18:00:00 00:00:00 00:00:00 | Single 100% hours/day 11 11 0 Total | 44 11 0 0 |

RECORD Inspection Report

Compiled by: Frikkie Malan Approved by: Rujeanne Swanepoel Date Approved: 12 September 2022

| Report Date | 03 November 2022 |
|--------------------|------------------|
| RMS EPC Inspector: | Lee Ferreira |

| ertification Name: | University of Johannesburg_DFC Lecturing Ha | " | | | |
|--|---|------------------------------|-------------------------|-----------------------------|-----------|
| nergy Carrier: Grid Supplied I | Electricity | | | | |
| 67 | | | | | |
| onsumption Source Data | Bulk check meter data | | | | |
| | | | | | |
| | Validations Checks | | Results | | |
| | Confirm meter location with reticulation diagram | Yes | | Consumption Unit of Measure | kWh |
| | Confirm meter existence and purpose with building rep | Yes | | Annual Consumption Value | 1 147 879 |
| | Compare Serial numbers (data file vs reticulation) | Yes | | kWh per Annum | 1 147 879 |
| | Check that data time-period is for Year of Assessment | Yes | | | |
| | Check data completeness (identify estimates) | Yes | | | |
| | Compare data with another data source | Yes | | | |
| | Visually inspect meter on site | Yes | | | |
| | Compare meter serial number (on meter) with other S/N | Yes | | | |
| | | isace. This was built to he | ave no impact on the E | e grade. | |
| | | 100.1115.115.105.1016.0.116 | ave no impact on the E | C globa. | |
| ispector comments from site ass | | 100.1113.113.103.10110.10110 | ave no impact on the E | C globe. | |
| spector comments from site ass | | | ave no impact on the E | C g total. | |
| nspector comments from site ass | | | ave no impact on the E | C g total. | |
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| ist any further actions that may | sessment | | ave no impact on the E | | |
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| ist any further actions that may | sessment | | ave no impact on the E | | |

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| Energy Carrier: Solar PV Supplied Electricity | | |
|--|--------------------------------|-----|
| Consumption Source Data Energy source not in building | | |
| | _ | |
| Validations Checks | Results | |
| Confirm meter location with reticulation diagram | Consumption Unit of Measure | kWh |
| Confirm meter existence and purpose with building representative | Annual Consumption Value (Raw) | 0 |
| Compare Serial numbers (data file vs reticulation) | kWh per Annum | 0 |
| Check that data time-period is for Year of Assessment | | |
| Check data completeness (identify estimates) | | |
| Compare data with another data source | | |
| Visually inspect meter on site | | |
| Compare meter serial number (on meter) with other S/N | | |
| | | |
| Describe any other validation methods used | | |
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| | | |
| Inspector comments from site assessment | | |
| No diesel genset | | |
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| List any further actions that may be needed: | | |
| No further action required | | |
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| Certification Name: | University of Johannesburg_DFC Lecturing | Hall | | |
|----------------------------------|--|-------------------|--------------------------------|--------|
| Energy Carrier: Diesel Fuel | | | | |
| Consumption Source Data | Another source | | | |
| | | | | |
| | Validations Checks | | Results | |
| | Confirm invoices/delivery notes are for this building location | No | Consumption Unit of Measure | kWh |
| | Confirm invoices/delivery notes are for the Year of Assessment | No | Annual Consumption Value (Raw) | 47 828 |
| | Inspect generator or other diesel consuming equipment | Yes | MJ/ per unit of measure | 39 |
| | Inspect diesel storage facilities | Yes | GJ per annum | 1 846 |
| | Confirm diesel refilling rules | Yes | kWh per Annum | 47 828 |
| Inspector comments from site a | | | | |
| | e diesel energy footprint accounts for 4% of the total | energy footprint. | | |
| List any further actions that ma | y be needed: | | | |
| The denoted squared | | | | |

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| Certification Name: | University of Johannesburg_DFC Lecturing Hall | | |
|--|--|--------------------------------|------|
| Energy Carrier: Gas | | | |
| | | | |
| Consumption Source Data | Energy source not in building | | |
| | | | |
| Validations Checks | | Results | |
| | Confirm invoices/delivery notes are for this building location | Consumption Unit of Measure | kWH |
| | Confirm invoices/delivery notes are for the Year of Assessment | Annual Consumption Value (Raw) | 0 |
| | Inspect gas consuming equipment | MJ/ per unit of measure | 46.1 |
| | Inspect gas storage facilities | GJ per annum | 0 |
| | Confirm gas refilling rules | kWh per Annum | 0 |
| | | | |
| | | | |
| nspector comments from site ass | sessment | | |
| nspector comments from site ass | sessment | | |
| nspector comments from site ass | sessment | | |
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| nspector comments from site ass | sessment | | |
| Inspector comments from site ass | sessment | | |
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| ist any further actions that may l | | | |
| Inspector comments from site ass List any further actions that may I | | | |
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| ist any further actions that may l | | | |

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| Certification Name: | University of Johannesburg_DFC Lecturing Hall | | |
|---|--|--------------------------------|-----|
| Energy Carrier: Solid Fuel | | | |
| | | | |
| Consumption Source Data | Energy source not in building | | |
| | | | |
| Validations Checks | | Results | |
| | Confirm invoices/delivery notes are for this building location | Consumption Unit of Measure | kg |
| | Confirm invoices/delivery notes are for the Year of Assessment | Annual Consumption Value (Raw) | 0 |
| | Inspect generator or other diesel consuming equipment | MJ/ per unit of measure | 0.0 |
| | Inspect storage facilities | GJ per annum | 0 |
| | Confirm refilling rules | kWh per Annum | 0 |
| Inspector comments from site assessr | ment | | |
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| list any further actions that may be n | peded: | | |
| List any further actions that may be no | eeded: | | |
| | eeded: | | |
| List any further actions that may be no No further action required | eeded: | | |
| | eeded: | | |
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| Report Date | 03 November 2022 |
|--------------------|------------------|
| RMS EPC Inspector: | Lee Ferreira |

| Certification Name: | University of Johannesburg_DFC Lecturing Hall | | |
|---|--|---|------|
| Energy Carrier: Export Energy | | | |
| Energy current Export Energy | | | |
| Consumption Source Data | Energy source not in building | | |
| | | | |
| Walldarfan a Charala | | Possition 1 | |
| Validations Checks | Confirm invoices/delivery notes are for this building location | Results Consumption Unit of Measure | l.a. |
| | Confirm invoices/delivery notes are for the Year of Assessment | Consumption Unit of Measure Annual Consumption Value (Raw) | kg |
| | Check whether readings are actual and not estimates | Annual Consumption value (kaw) MJ/ per unit of measure | 0 |
| | Inspect storage facilities | GJ per annum | 0.0 |
| | Check data against another source | kWh per Annum | 0 |
| | · · · · · · · · · · · · · · · · · · · | <u></u> | |
| Describe any other validation method | ls used | | |
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| Inspector comments from site assessn | ment | | |
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| List any further actions that may be no | eeded: | | |
| No further action required | | | |
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RMS EPC Inspector: Lee Ferreira

| | Hall | |
|--|---|---|
| | | |
| Exclusions | | |
| Store Rooms | Garages/Basement Parking | |
| Not applicable | Yes, the floor plan shows all the parking areas | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Dutside Areas | Net Floor Area Report Findings | |
| No. The floor plan does not show all the outside areas | Construction Area: | ź |
| | Store Rooms Total | |
| | Outside Areas Total | |
| | Parking Area Total | |
| | Vertical Elements | |
| | Excluded Areas Total | |
| | Net Floor Area | á |
| | Excluded Area % | |

| Load Type | Qty | Wattage | Hours/Week | Wh/Week | Wks/Yr | kWh/ | Yea |
|-----------|-----|---------|----------------------|---------------|--------|------|-----|
| | | | | | | | |
| | | | | | | | |
| | | | 84 | | | - | - |
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| | | | | | | | |
| | | | Excluded Areas Total | kWh per Year | | | |
| | | | Excluded Area Energy | as % of Total | | | 0% |

Excluded Energy is less than 10% of total building energy consumption and does not have to be shown on the certificate



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03 November 2022 Report Date

| MMS ET C INSPECTOR. | zee renend |
|---------------------|--------------|
| RMS EPC Inspector: | Lee Ferreira |
| neport bute | |

Certification Name:

University of Johannesburg_DFC Lecturing Hall

Building Details

| Building Name | DFC Lecturing Hall |
|---|--------------------|
| Energy Zone | 1 |
| Reference Energy Consumption (kWh/m2.annum) | 110 |
| Year of Assessment Start | 01 January 2021 |
| Year of Assessment End | 31 December 2021 |
| Occupancy Class | , A3 |

Occupancy Rate 100%

Energy Carriers

| - 07 | | |
|------|--------------------------------|-----------|
| | Total Energy Consumption (kWh) | 1 195 707 |
| | Grid Electricity (kWh): | 1 147 879 |
| | Solar PV Electricity (kWh): | 0 |
| | Diesel Fuel (kWh): | 47 828 |
| | Gas (kWh): | 0 |
| | Solid Fuel (kWh): | 0 |
| | Export Energy (kWh): | 0 |

Building Energy Performance

| Energy per Unadjusted Net Floor Area (kWh/m2.annum): | 302 |
|--|-----|
| Energy per Adjusted Net Floor Area (kWh/m2.annum): | 302 |

Building Performance

| Building Performance Scale (from SANS 1544) |
|---|
| Rating A: energy performance < 0.3Ereference |
| Rating B: 0.3Ereference <= energy performance < 0.6Ereference |
| Rating C: 0.6Ereference <= energy performance < 0.9Ereference |
| Rating D: 0.9Ereference <= energy performance < 1.1Ereference |
| Rating E: 1.1Ereference <= energy performance < 1.4Ereference |
| Rating F: 1.4Ereference <= energy performance < 1.7Ereference |

Additional Information

Rating G: energy performance >= 1.7Ereference

| Additional information | | |
|------------------------|----------------------------------|----------|
| | No of floors (excl parking): | 2 |
| | Year of Construction: >2 years | |
| | Year of Renovation: Within th | e past 2 |
| | Date of Approved Plans: >2 years | |
| | Cadastral (Erf no) Info: | |

Signature: Inspector

Inspection Report Date: 03 November 2022

 $\textbf{\textit{Certification Name:}} \ \ \textit{University of Johannesburg_DFC Lecturing Hall}$

Net Floor Area

| <u>Total Net Floor Area</u> | 3 960 |
|-----------------------------|-------|
| Excluded Area | 0 |
| Excluded Area % of Total | 0% |

Excluded Area Energy Consumption

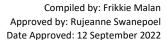
| Total Excluded Area Energy Consumption (kWh) | 0 | | | |
|--|-----------|--|--|--|
| Net Energy = Total Energy - Exclusions = 1 195 707 - 0 | | | | |
| Equals (kWh) | 1 195 707 | | | |
| Excluded Area Energy as % of Total | 0% | | | |

Building EPC Calculcation

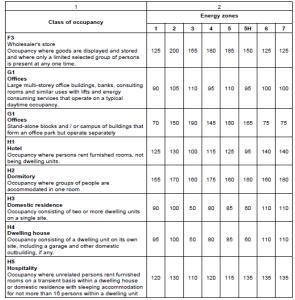
| 110 | Reference Energy (kWh/m2.annum): |
|------|-------------------------------------|
| | (from SANS 10400-XA:2021) |
| | Variance = 302 - 110 |
| 192 | Equals (kWh/m2.annum): |
| | Actual/Reference Energy = 302 / 110 |
| 2.74 | Equals: |
| G | Provisional Building Rating: |

Signature: Client









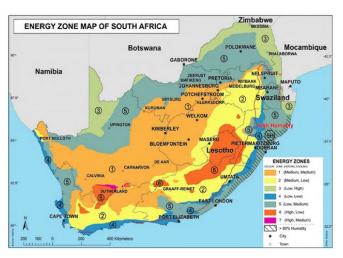


Table 1 — Maximum annual energy consumption per building classification for each energy zone (kWh/m²/a) (Energy zones as shown in figure 1 and annex C)

| 1 | 2 | | | | | | | |
|---|--------------|-----|-----|-----|-----|-----|-----|-----|
| Class of annuary | Energy zones | | | | | | | |
| Class of occupancy | | 2 | 3 | 4 | 5 | 5H | 6 | 7 |
| A1 Entertainment and public assembly Occupancy where persons gather to eat, drink, dance or participate in other recreation. | 75 | 75 | 95 | 70 | 95 | 95 | 80 | 80 |
| A2 Theatrical and indoor sport Occupancy where persons gather for the viewing of theatrical, operatic, orchestral, choral, cinematographical or sport performances. | 95 | 95 | 110 | 90 | 110 | 110 | 105 | 105 |
| A3 Places of instruction Occupancy other than primary or secondary schools, where students or other persons assemble for the purpose of tuition or learning. | 110 | 155 | 110 | 125 | 140 | 140 | 120 | 120 |
| A3 Places of instruction Occupancy where school children assemble for the purpose of tuition or learning | 60 | 65 | 55 | 60 | 55 | 60 | 65 | 65 |
| A4 Worship Occupancy where persons assemble for the purpose of worshipping. | 70 | 45 | 45 | 40 | 50 | 40 | 70 | 70 |
| E2 Hospital Occupancy where people are cared for or treated because of physical or mental disabilities and where they are generally bed-ridden. | 325 | 335 | 225 | 295 | 295 | 230 | 345 | 345 |
| E3 Other institutional (residential) Occupancy where groups of people who either are not fully fit, or who are restricted in their movements or their ability to make decisions, reside and are cared for | 120 | 95 | 90 | 90 | 100 | 80 | 130 | 130 |
| F1 Large shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area exceeds 250 m². | 125 | 200 | 155 | 180 | 185 | 150 | 125 | 125 |
| F2 Small shop Occupancy where merchandise is displayed and offered for sale to the public and the floor area does not exceed 250 m². | 75 | 150 | 100 | 125 | 130 | 95 | 80 | 80 |