

# BASIC COMPLIANCE REPORT

## Calculation Type: New Build (As Designed)



|                             |                                            |                       |                |
|-----------------------------|--------------------------------------------|-----------------------|----------------|
| <b>Property Reference</b>   | 22211 Plot 10                              | <b>Issued on Date</b> | 15/12/2022     |
| <b>Assessment Reference</b> | A                                          | <b>Prop Type Ref</b>  | House Type A h |
| <b>Property</b>             | Plot 10, Station Road, Haddenham, ELY, CB6 |                       |                |

|                                          |      |                       |       |             |       |
|------------------------------------------|------|-----------------------|-------|-------------|-------|
| <b>SAP Rating</b>                        | 92 A | <b>DER</b>            | 10.49 | <b>TER</b>  | 27.20 |
| <b>Environmental</b>                     | 93 A | <b>% DER&lt;TER</b>   | 61.43 |             |       |
| <b>CO<sub>2</sub> Emissions (t/year)</b> | 0.61 | <b>DFEE</b>           | 48.45 | <b>TFEE</b> | 53.29 |
| <b>General Requirements Compliance</b>   | Pass | <b>% DFEE&lt;TFEE</b> | 9.09  |             |       |

|                         |                                                                                          |                    |           |
|-------------------------|------------------------------------------------------------------------------------------|--------------------|-----------|
| <b>Assessor Details</b> | Mr. Robert Atherton, Low Carbon Box Limited, Tel: 07540977134, robert@lowcarbonbox.co.uk | <b>Assessor ID</b> | F291-0001 |
|-------------------------|------------------------------------------------------------------------------------------|--------------------|-----------|

|               |  |
|---------------|--|
| <b>Client</b> |  |
|---------------|--|

### SUMMARY FOR INPUT DATA FOR New Build (As Designed)

#### Criterion 1 – Achieving the TER and TFEE rate

##### 1a TER and DER

|                                             |                    |                                   |      |
|---------------------------------------------|--------------------|-----------------------------------|------|
| Fuel for main heating                       | Electricity        |                                   |      |
| Fuel factor                                 | 1.55 (electricity) |                                   |      |
| Target Carbon Dioxide Emission Rate (TER)   | 27.20              | kgCO <sub>2</sub> /m <sup>2</sup> |      |
| Dwelling Carbon Dioxide Emission Rate (DER) | 10.49              | kgCO <sub>2</sub> /m <sup>2</sup> | Pass |
|                                             | -16.71 (-61.4%)    | kgCO <sub>2</sub> /m <sup>2</sup> |      |

##### 1b TFEE and DFEE

|                                          |              |                        |      |
|------------------------------------------|--------------|------------------------|------|
| Target Fabric Energy Efficiency (TFEE)   | 53.29        | kWh/m <sup>2</sup> /yr |      |
| Dwelling Fabric Energy Efficiency (DFEE) | 48.45        | kWh/m <sup>2</sup> /yr |      |
|                                          | -4.8 (-9.0%) | kWh/m <sup>2</sup> /yr | Pass |

#### Criterion 2 – Limits on design flexibility

##### Limiting Fabric Standards

##### 2 Fabric U-values

| Element       | Average          | Highest          |      |
|---------------|------------------|------------------|------|
| External wall | 0.23 (max. 0.30) | 0.23 (max. 0.70) | Pass |
| Party wall    | 0.00 (max. 0.20) | -                | Pass |
| Floor         | 0.15 (max. 0.25) | 0.15 (max. 0.70) | Pass |
| Roof          | 0.11 (max. 0.20) | 0.11 (max. 0.35) | Pass |
| Openings      | 1.34 (max. 2.00) | 1.40 (max. 3.30) | Pass |

##### 2a Thermal bridging

Thermal bridging calculated from linear thermal transmittances for each junction

##### 3 Air permeability

|                                |                     |      |
|--------------------------------|---------------------|------|
| Air permeability at 50 pascals | 5.50 (design value) |      |
| Maximum                        | 10.0                | Pass |

##### Limiting System Efficiencies

##### 4 Heating efficiency

|                          |                                                                                                    |  |
|--------------------------|----------------------------------------------------------------------------------------------------|--|
| Main heating system      | Heat pump with radiators or underfloor - Electric<br>Mitsubishi Electric Ecodan 5.0 kW PUZ-WM50VHA |  |
| Secondary heating system | None                                                                                               |  |

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### 5 Cylinder insulation

|                            |                                                                 |      |
|----------------------------|-----------------------------------------------------------------|------|
| Hot water storage          | Measured cylinder loss: 1.23 kWh/day<br>Permitted by DBSCG 2.03 | Pass |
| Primary pipework insulated | Yes                                                             | Pass |

### 6 Controls

|                        |                             |      |
|------------------------|-----------------------------|------|
| Space heating controls | Programmer, TRVs and bypass | Pass |
| Hot water controls     | Cylinderstat                | Pass |
|                        | Independent timer for DHW   | Pass |

### 7 Low energy lights

|                                                     |     |   |      |
|-----------------------------------------------------|-----|---|------|
| Percentage of fixed lights with low-energy fittings | 100 | % |      |
| Minimum                                             | 75  | % | Pass |

### 8 Mechanical ventilation

|                                           |               |      |
|-------------------------------------------|---------------|------|
| Continuous extract system (decentralised) |               |      |
| Specific fan power                        | 0.1600 0.1600 |      |
| Maximum                                   | 0.7           | Pass |

## Criterion 3 – Limiting the effects of heat gains in summer

### 9 Summertime temperature

|                                |                                   |      |
|--------------------------------|-----------------------------------|------|
| Overheating risk (East Anglia) | Slight                            | Pass |
| Based on:                      |                                   |      |
| Overshading                    | Average                           |      |
| Windows facing North East      | 1.80 m <sup>2</sup> , No overhang |      |
| Windows facing South East      | 3.95 m <sup>2</sup> , No overhang |      |
| Windows facing North West      | 3.52 m <sup>2</sup> , No overhang |      |
| Air change rate                | 4.00 ach                          |      |
| Blinds/curtains                | None                              |      |

## Criterion 4 – Building performance consistent with DER and DFEE rate

### Party Walls

| Type                            | U-value | W/m <sup>2</sup> K |      |
|---------------------------------|---------|--------------------|------|
| Filled Cavity with Edge Sealing | 0.00    |                    | Pass |

### Air permeability and pressure testing

#### 3 Air permeability

|                                |                     |      |
|--------------------------------|---------------------|------|
| Air permeability at 50 pascals | 5.50 (design value) |      |
| Maximum                        | 10.0                | Pass |

### 10 Key features

|                    |      |                    |
|--------------------|------|--------------------|
| Party wall U-value | 0.00 | W/m <sup>2</sup> K |
| Roof U-value       | 0.11 | W/m <sup>2</sup> K |
| Photovoltaic array | 1.00 | kW                 |

This report has not been submitted through the Elmhurst Energy members' portal, therefore results are subject to change when the dwelling is completed.

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|                      |                                            |               |                |            |
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| Assessment Reference | A                                          | Prop Type Ref | House Type A h |            |
| Property             | Plot 10, Station Road, Haddenham, ELY, CB6 |               |                |            |

|                                    |      |             |       |      |       |
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| SAP Rating                         | 92 A | DER         | 10.49 | TER  | 27.20 |
| Environmental                      | 93 A | % DER<TER   | 61.43 |      |       |
| CO <sub>2</sub> Emissions (t/year) | 0.61 | DFEE        | 48.45 | TFEE | 53.29 |
| General Requirements Compliance    | Pass | % DFEE<TFEE | 9.09  |      |       |

|                  |                                                                                          |             |           |
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### SUMMARY FOR INPUT DATA FOR: New Build (As Designed)

|                       |                      |
|-----------------------|----------------------|
| Orientation           | South East           |
| Property Tenure       | Unknown              |
| Transaction Type      | New dwelling         |
| Terrain Type          | Suburban             |
| 1.0 Property Type     | House, Semi-Detached |
| 2.0 Number of Storeys | 2                    |
| 3.0 Date Built        | 2022                 |
| 4.0 Sheltered Sides   | 2                    |
| 5.0 Sunlight/Shade    | Average or unknown   |

#### 6.0 Measurements

|               | Heat Loss Perimeter | Internal Floor Area  | Average Storey Height |
|---------------|---------------------|----------------------|-----------------------|
| Ground Floor: | 17.76 m             | 39.35 m <sup>2</sup> | 2.34 m                |
| 1st Storey:   | 17.76 m             | 39.35 m <sup>2</sup> | 2.67 m                |

|                 |       |                |
|-----------------|-------|----------------|
| 7.0 Living Area | 14.15 | m <sup>2</sup> |
|-----------------|-------|----------------|

|                            |                     |                     |
|----------------------------|---------------------|---------------------|
| 8.0 Thermal Mass Parameter | Precise calculation |                     |
| Thermal Mass               | 207.98              | kJ/m <sup>2</sup> K |

#### 9.0 External Walls

| Description | Type        | Construction | U-Value (W/m <sup>2</sup> K) | Kappa (kJ/m <sup>2</sup> K) | Gross Area (m <sup>2</sup> ) | Nett Area (m <sup>2</sup> ) |
|-------------|-------------|--------------|------------------------------|-----------------------------|------------------------------|-----------------------------|
| Cavity wall | Cavity Wall | Other        | 0.23                         | 96.43                       | 88.98                        | 75.43                       |

#### 9.1 Party Walls

| Description  | Type                            | Construction                                                     | U-Value (W/m <sup>2</sup> K) | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|--------------|---------------------------------|------------------------------------------------------------------|------------------------------|-----------------------------|------------------------|
| Party Wall 1 | Filled Cavity with Edge Sealing | Single plasterboard on both sides, dense cellular blocks, cavity | 0.00                         | 70.00                       | 44.84                  |

#### 9.2 Internal Walls

| Description            | Construction                 | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|------------------------|------------------------------|-----------------------------|------------------------|
| Internal Partitions LW | Plasterboard on timber frame | 9.00                        | 137.08                 |

#### 10.0 External Roofs

| Description | Type                | Construction                             | U-Value (W/m <sup>2</sup> K) | Kappa (kJ/m <sup>2</sup> K) | Gross Area (m <sup>2</sup> ) | Nett Area (m <sup>2</sup> ) |
|-------------|---------------------|------------------------------------------|------------------------------|-----------------------------|------------------------------|-----------------------------|
| Ceiling     | External Plane Roof | Plasterboard, insulated at ceiling level | 0.11                         | 9.00                        | 39.35                        | 39.35                       |

#### 10.2 Internal Ceilings

# SUMMARY FOR INPUT DATA

## Calculation Type: New Build (As Designed)



| Description        | Construction                                   | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|--------------------|------------------------------------------------|-----------------------------|------------------------|
| Internal Ceiling 1 | Plasterboard ceiling, carpeted chipboard floor | 9.00                        | 39.35                  |

### 11.0 Heat Loss Floors

| Description  | Type                 | Construction                       | U-Value (W/m <sup>2</sup> K) | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|--------------|----------------------|------------------------------------|------------------------------|-----------------------------|------------------------|
| Ground floor | Ground Floor - Solid | Suspended concrete floor, carpeted | 0.15                         | 75.00                       | 39.35                  |

### 11.2 Internal Floors

| Description      | Construction                                   | Kappa (kJ/m <sup>2</sup> K) | Area (m <sup>2</sup> ) |
|------------------|------------------------------------------------|-----------------------------|------------------------|
| Internal Floor 1 | Plasterboard ceiling, carpeted chipboard floor | 18.00                       | 39.35                  |

### 12.0 Opening Types

| Description          | Data Source | Type             | Glazing                | Glazing Gap | Argon Filled | G-value | Frame Type | Frame Factor | U Value (W/m <sup>2</sup> K) |
|----------------------|-------------|------------------|------------------------|-------------|--------------|---------|------------|--------------|------------------------------|
| Front / Utility Door | Manufacture | Solid Door       |                        |             |              |         |            |              | 1.20                         |
| Windows              | Manufacture | Window           | Double Low-E Soft 0.05 |             |              | 0.70    |            | 0.70         | 1.40                         |
| Glazed Sidelight     | Manufacture | Window           | Double Low-E Soft 0.05 |             |              | 0.70    |            | 0.70         | 1.30                         |
| Opaque panels        | Manufacture | Window           | Double Low-E Soft 0.05 |             |              | 0.30    |            | 0.70         | 1.30                         |
| HG door              | Manufacture | Half Glazed Door | Double Low-E Soft 0.05 |             |              | 0.70    |            | 0.70         | 1.20                         |
| Rooflight            | Manufacture | Roof Window      | Double Low-E Soft 0.05 |             |              | 0.63    |            | 0.70         | 1.40                         |

### 13.0 Openings

| Name          | Opening Type     | Location        | Orientation | Curtain Type | Overhang Ratio | Wide Overhang | Width (m) | Height (m) | Count | Area (m <sup>2</sup> ) | Curtain Closed |
|---------------|------------------|-----------------|-------------|--------------|----------------|---------------|-----------|------------|-------|------------------------|----------------|
| Front Door    | Solid Door       | [1] Cavity wall | South East  |              |                |               |           |            |       | 2.14                   |                |
| Front Windows | Window           | [1] Cavity wall | South East  | None         | 0.00           |               |           |            |       | 3.95                   |                |
| Rear win      | Window           | [1] Cavity wall | North West  | None         | 0.00           |               |           |            |       | 3.52                   |                |
| Side win      | Window           | [1] Cavity wall | North East  | None         | 0.00           |               |           |            |       | 1.80                   |                |
| Rear          | Half Glazed Door | [1] Cavity wall | North West  |              |                |               |           |            |       | 2.14                   |                |

### 14.0 Conservatory

### 15.0 Draught Proofing

 %

### 16.0 Draught Lobby

### 17.0 Thermal Bridging

### 17.1 List of Bridges

| Source Type            | Bridge Type                                          | Length | Psi    | Imported |
|------------------------|------------------------------------------------------|--------|--------|----------|
| Independently assessed | E1 Steel lintel with perforated steel base plate     | 10.10  | 0.358  | No       |
| Independently assessed | E3 Sill                                              | 8.06   | 0.015  | No       |
| Independently assessed | E4 Jamb                                              | 28.80  | 0.010  | No       |
| Independently assessed | E5 Ground floor (normal)                             | 17.76  | 0.094  | No       |
| Independently assessed | E6 Intermediate floor within a dwelling              | 17.76  | 0.000  | No       |
| Table K1 - Approved    | E10 Eaves (insulation at ceiling level)              | 8.81   | 0.060  | No       |
| Independently assessed | E12 Gable (insulation at ceiling level)              | 8.95   | 0.084  | No       |
| Independently assessed | E16 Corner (normal)                                  | 10.02  | 0.062  | No       |
| Independently assessed | E18 Party wall between dwellings                     | 10.02  | -0.003 | No       |
| Table K1 - Default     | P1 Party wall - Ground floor                         | 8.95   | 0.160  | No       |
| Table K1 - Default     | P2 Party wall - Intermediate floor within a dwelling | 8.95   | 0.000  | No       |
| Independently assessed | P4 Party wall - Roof (insulation at ceiling level)   | 8.95   | 0.041  | No       |

### Y-value

 W/m<sup>2</sup>K

### 18.0 Pressure Testing

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|                           |      |                                             |
|---------------------------|------|---------------------------------------------|
| Designed AP <sub>50</sub> | 5.50 | m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa |
| Property Tested ?         |      |                                             |
| As Built AP <sub>50</sub> |      | m <sup>3</sup> /(h.m <sup>2</sup> ) @ 50 Pa |

### 19.0 Mechanical Ventilation

#### Summer Overheating

|                             |                   |
|-----------------------------|-------------------|
| Windows open in hot weather | Windows half open |
| Cross ventilation possible  | Yes               |
| Night Ventilation           | No                |
| Air change rate             | 4.00              |

#### Mechanical Ventilation

|                                       |                                                |
|---------------------------------------|------------------------------------------------|
| Mechanical Ventilation System Present | Yes                                            |
| Approved Installation                 | No                                             |
| Mechanical Ventilation data Type      | Database                                       |
| Type                                  | Mechanical extract ventilation - decentralised |
| MV Reference Number                   | 500229                                         |
| Duct Type                             | Rigid                                          |

### 19.1 Mechanical extract ventilation - Decentralised

| SFP  | Fan/Room Type                   | Count |
|------|---------------------------------|-------|
| 0.16 | Through Wall Fan Kitchen        | 1     |
| 0.16 | Through Wall Fan Other Wet Room | 2     |

### 20.0 Fans, Open Fireplaces, Flues

|                              | MHS | SHS | Other | Total |
|------------------------------|-----|-----|-------|-------|
| Number of Chimneys           | 0   |     | 0     | 0     |
| Number of open flues         | 0   |     | 0     | 0     |
| Number of intermittent fans  |     |     |       | 0     |
| Number of passive vents      |     |     |       | 0     |
| Number of flueless gas fires |     |     |       | 0     |

### 21.0 Fixed Cooling System

No

### 22.0 Lighting

#### Internal

|                                 |        |   |
|---------------------------------|--------|---|
| Total number of light fittings  | 16     |   |
| Total number of L.E.L. fittings | 16     |   |
| Percentage of L.E.L. fittings   | 100.00 | % |

#### External

|                        |    |
|------------------------|----|
| External lights fitted | No |
|------------------------|----|

### 23.0 Electricity Tariff

Standard

### 24.0 Main Heating 1

|                    |             |   |
|--------------------|-------------|---|
| Description        | Database    |   |
| Description        | ASHP        |   |
| Percentage of Heat | 100         | % |
| Database Ref. No.  | 104568      |   |
| Fuel Type          | Electricity |   |
| Main Heating       | PET         |   |
| SAP Code           | 224         |   |

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|                            |                                 |
|----------------------------|---------------------------------|
| In Winter                  | 0.0                             |
| In Summer                  | 0.0                             |
| Controls                   | CHG Programmer, TRVs and bypass |
| PCDF Controls              | 0                               |
| Sap Code                   | 2206                            |
| Is MHS Pumped              | Pump in heated space            |
| Heat Emitter               | Radiators                       |
| Flow Temperature           | Normal (> 45°C)                 |
| <b>25.0 Main Heating 2</b> | None                            |

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Community Heating                                | None                    |
| <b>28.0 Water Heating</b>                        | HWP From main heating 1 |
| Water Heating                                    | Main Heating 1          |
| Flue Gas Heat Recovery System                    | No                      |
| Waste Water Heat Recovery Instantaneous System 1 | No                      |
| Waste Water Heat Recovery Instantaneous System 2 | No                      |
| Waste Water Heat Recovery Storage System         | No                      |
| Solar Panel                                      | No                      |
| Water use <= 125 litres/person/day               | Yes                     |
| SAP Code                                         | 901                     |
| Immersion Only Heating Hot Water                 | No                      |

|                                |                                  |         |
|--------------------------------|----------------------------------|---------|
| <b>29.0 Hot Water Cylinder</b> | Hot Water Cylinder               |         |
| Cylinder Stat                  | Yes                              |         |
| Cylinder In Heated Space       | Yes                              |         |
| Independent Time Control       | Yes                              |         |
| Insulation Type                | Measured Loss                    |         |
| Cylinder Volume                | 170.00                           | L       |
| Loss                           | 1.23                             | kWh/day |
| Pipes insulation               | Fully insulated primary pipework |         |

|                           |      |
|---------------------------|------|
| <b>31.0 Thermal Store</b> | None |
|---------------------------|------|

|                               |                |
|-------------------------------|----------------|
| <b>32.0 Photovoltaic Unit</b> | One Dwelling   |
| PV Cells kWp                  | 1.00           |
| Orientation                   | South East     |
| Elevation                     | 30°            |
| Overshading                   | None Or Little |
| Connected to Dwelling         | Yes            |

### Recommendations

#### Lower cost measures

None

#### Further measures to achieve even higher standards

|                     | Typical Cost    | Typical savings per year | Ratings after improvement |                      |
|---------------------|-----------------|--------------------------|---------------------------|----------------------|
|                     |                 |                          | SAP rating                | Environmental Impact |
| Solar water heating | £4,000 - £6,000 | £58                      | A 93                      |                      |

# ASSESSMENT NOTES

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|                      |                                            |               |                |            |
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|                                    |      |             |       |      |       |
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| Environmental                      | 93 A | % DER<TER   | 61.43 |      |       |
| CO <sub>2</sub> Emissions (t/year) | 0.61 | DFEE        | 48.45 | TFEE | 53.29 |
| General Requirements Compliance    | Pass | % DFEE<TFEE | 9.09  |      |       |

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**ASSESSMENT NOTES - Last time updated on: 15.12.2022**

# THERMAL BRIDGING

## Calculation Type: New Build (As Designed)



|                                    |                                                                                          |               |                |             |           |
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| Assessment Reference               | A                                                                                        | Prop Type Ref | House Type A h |             |           |
| Property                           | Plot 10, Station Road, Haddenham, ELY, CB6                                               |               |                |             |           |
| SAP Rating                         | 92 A                                                                                     | DER           | 10.49          | TER         | 27.20     |
| Environmental                      | 93 A                                                                                     | % DER<TER     | 61.43          |             |           |
| CO <sub>2</sub> Emissions (t/year) | 0.61                                                                                     | DFEE          | 48.45          | TFEE        | 53.29     |
| General Requirements Compliance    | Pass                                                                                     | % DFEE<TFEE   | 9.09           |             |           |
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| Client                             |                                                                                          |               |                |             |           |

|               | Junction detail                                      | Source Type            | Psi (W/mK) | Length (m) | Result | Reference |
|---------------|------------------------------------------------------|------------------------|------------|------------|--------|-----------|
| External wall | E1 Steel lintel with perforated steel base plate     | Independently assessed | 0.358      | 10.10      | 3.62   |           |
| External wall | E3 Sill                                              | Independently assessed | 0.015      | 8.06       | 0.12   |           |
| External wall | E4 Jamb                                              | Independently assessed | 0.010      | 28.80      | 0.29   |           |
| External wall | E5 Ground floor (normal)                             | Independently assessed | 0.094      | 17.76      | 1.67   |           |
| External wall | E6 Intermediate floor within a dwelling              | Independently assessed | 0.000      | 17.76      | 0.00   |           |
| External wall | E10 Eaves (insulation at ceiling level)              | Table K1 - Approved    | 0.060      | 8.81       | 0.53   |           |
| External wall | E12 Gable (insulation at ceiling level)              | Independently assessed | 0.084      | 8.95       | 0.75   |           |
| External wall | E16 Corner (normal)                                  | Independently assessed | 0.062      | 10.02      | 0.62   |           |
| External wall | E18 Party wall between dwellings                     | Independently assessed | -0.003     | 10.02      | -0.03  |           |
| Party wall    | P1 Party wall - Ground floor                         | Table K1 - Default     | 0.160      | 8.95       | 1.43   |           |
| Party wall    | P2 Party wall - Intermediate floor within a dwelling | Table K1 - Default     | 0.000      | 8.95       | 0.00   |           |
| Party wall    | P4 Party wall - Roof (insulation at ceiling level)   | Independently assessed | 0.041      | 8.95       | 0.37   |           |

Total: **9.36** W/mK:  
 Y-Value: **0.056** W/m<sup>2</sup>K: