

# **Alba Building Sciences Ltd**

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# CERT Demonstration Action UK Park Homes SCHEME REF: SSEN09132

# Alba Report 21050 Appendix 1

# **Pilot Project**

# Thermographic Data Pilot Project



#### GMST 42

#### **Pre-Improvement Inspection**





In the thermal image "pre-improvement", it is clear that significant heat loss is occurring across the building envelope and that this can be attributed to thermal bridging across the timber frame construction in addition to warm air leakage at critical junction details.

The thermographic inspection also identified a number of anomalies that were indicative of significant heat loss, occurring across the floor construction.

# 23.5°C

#### **Post-Improvement Inspection**

It can be seen in the above thermal image "post-improvement" that the number of heat-loss pathways across the building envelope have been significantly reduced ( i.e. when compared to the "pre-improvement" image )

# Thermographic Data Pilot Project



GMST 45

#### **Pre-Improvement Inspection**





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# 23.3°C 23.3°C 2.15°C

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# Thermographic Data Pilot Project



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# Thermographic Data Pilot Project



#### GMST 6

#### **Pre-Improvement Inspection**





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# Thermographic Data Pilot Project



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# Thermographic Data Pilot Project



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# Thermographic Data Pilot Project



#### GMST 7

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# Thermographic Data Pilot Project



#### GMST 7

#### **Pre-Improvement Inspection**





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# Thermographic Data Pilot Project



#### GMST 9

#### **Pre-Improvement Inspection**





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#### **Post-Improvement Inspection**

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# Thermographic Data Pilot Project



#### GMST 13

#### **Pre-Improvement Inspection**





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# Thermographic Data Pilot Project

![](_page_11_Picture_3.jpeg)

#### **Pre-Improvement Inspection**

![](_page_11_Figure_5.jpeg)

![](_page_11_Picture_6.jpeg)

In the thermal image "pre-improvement", it is clear that significant heat loss is occurring across the building envelope and that this can be attributed to thermal bridging across the timber frame construction in addition to warm air leakage at critical junction details.

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![](_page_11_Picture_9.jpeg)

#### **Post-Improvement Inspection**

It can be seen in the above thermal image "post-improvement" that the number of heat-loss pathways across the building envelope have been significantly reduced ( i.e. when compared to the "pre-improvement" image )

![](_page_11_Picture_13.jpeg)

# Thermographic Data Pilot Project

![](_page_12_Picture_3.jpeg)

#### GMST 38

#### **Pre-Improvement Inspection**

![](_page_12_Picture_6.jpeg)

![](_page_12_Picture_7.jpeg)

In the thermal image "pre-improvement", it is clear that significant heat loss is occurring across the building envelope and that this can be attributed to thermal bridging across the timber frame construction in addition to warm air leakage at critical junction details.

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![](_page_12_Figure_10.jpeg)

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# Thermographic Data Pilot Project

![](_page_13_Picture_3.jpeg)

#### GMST 38

#### **Pre-Improvement Inspection**

![](_page_13_Figure_6.jpeg)

![](_page_13_Picture_7.jpeg)

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![](_page_13_Picture_10.jpeg)

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# Thermographic Data Pilot Project

![](_page_14_Picture_3.jpeg)

#### GMST 37

#### **Pre-Improvement Inspection**

![](_page_14_Picture_6.jpeg)

![](_page_14_Picture_7.jpeg)

In the thermal image "pre-improvement", it is clear that significant heat loss is occurring across the building envelope and that this can be attributed to thermal bridging across the timber frame construction in addition to warm air leakage at critical junction details.

The thermographic inspection also identified a number of anomalies that were indicative of significant heat loss, occurring across the floor construction.

![](_page_14_Picture_10.jpeg)

#### **Post-Improvement Inspection**

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## Thermographic Data Pilot Project

![](_page_15_Picture_3.jpeg)

#### GMST 37

#### **Pre-Improvement Inspection**

![](_page_15_Picture_6.jpeg)

![](_page_15_Picture_7.jpeg)

In the thermal image "pre-improvement", it is clear that significant heat loss is occurring across the building envelope and that this can be attributed to thermal bridging across the timber frame construction in addition to warm air leakage at critical junction details.

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![](_page_15_Figure_10.jpeg)

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