## **Building Regulations England Part L (BREL) Compliance Report**

Approved Document L1 2021 Edition, England assessed by Array SAP 10 program, Array

Date: Wed 03 Jul 2024 15:06:46

Project Information			
Assessed By	Daniel Hilsdon	Building Type	House, Semi-detached
OCDEA Registration	EES/019793	Assessment Date	2024-07-03

Dwelling Details				
Assessment Type	As designed	Total Floor Area	84 m <sup>2</sup>	
Site Reference	Bexhill Plot 067 Plot Reference pea SAGE			
Address	4 Plot 067 Swallowtail Drive, B	exhill, TN40 2QX		

Client Details	
Name	Countryside
Company	Countryside Partnerships (South)
Address	154 High Street, Kent, Sevenoaks, TN13 1XE

This report covers items included within the SAP calculations. It is not a complete report of regulations compliance.

1a Target emission rate and dwelling emission rate				
Fuel for main heating system	Heat network			
Target carbon dioxide emission rate	10.66 kgCO <sub>2</sub> /m <sup>2</sup>			
Dwelling carbon dioxide emission rate	4.54 kgCO <sub>2</sub> /m <sup>2</sup>	OK		
1b Target primary energy rate and dwelling primary energy				
Target primary energy	55.57 kWh <sub>PE</sub> /m <sup>2</sup>			
Dwelling primary energy	47.76 kWh <sub>PE</sub> /m <sup>2</sup>	OK		
1c Target fabric energy efficiency and dwelling fabric energy efficiency				
Target fabric energy efficiency	34.1 kWh/m <sup>2</sup>			
Dwelling fabric energy efficiency	29.2 kWh/m <sup>2</sup>	OK		

2a Fabric U-values	5			
Element	Maximum permitted average U-Value [W/m <sup>2</sup> K]	Dwelling average U-Value [W/m <sup>2</sup> K]	Element with highest individual U-Value	
External walls	0.26	0.18	Walls (1) (0.18)	OK
Party walls	0.2	0	Party Wall (1) (0)	N/A
Curtain walls	1.6	0	N/A	N/A
Floors	0.18	0.11	Ground Floor (0.11)	OK
Roofs	0.16	0.09	Roof (1) (0.09)	OK
Windows, doors,	1.6	1.28	Glazing - Rear (1.4)	OK
and roof windows				
Rooflights	2.2	N/A	N/A	N/A

2b Envelope elements (better than typically expected values are flagged with a subsequent (!))					
Name	Net area [m <sup>2</sup> ]	U-Value [W/m <sup>2</sup> K]			
Exposed wall: Walls (1)	79.531	0.18			
Party wall: Party Wall (1)	43.01	0 (!)			
Ground floor: Ground Floor, Ground Floor	42.11	0.11			
Exposed roof: Roof (1)	42.11	0.09 (!)			

Name	Area [m <sup>2</sup> ]	Orientation	Frame factor	U-Value [W/m <sup>2</sup> K]
Door - Front, Front Door	2.121	North	N/A	1 (!)
Glazing - Front, Windows / Glazed	2.3895	North	1.0	1.3
Doors				
Glazing - Front, Windows / Glazed	1.44	North	1.0	1.3
Doors				
Glazing - Front, Windows / Glazed	0.6615	North	1.0	1.3
Doors				
Glazing - Rear, Patio Door	3.003	South	1.0	1.4
Glazing - Rear, Windows / Glazed	2.124	South	1.0	1.3
Doors				
Glazing - Rear, Windows / Glazed	1.26	South	1.0	1.3
Doors				
Glazing - Rear, Windows / Glazed	1.17	South	1.0	1.3

Doors         Image: Control of Co	Name		Area [m <sup>2</sup> ]		Orientation	Fran	ne factor	U-Value [W/m <sup>2</sup> K]
Building part 1 - Main Dwelling: Thermal bridging calculated from linear thermal transmittances for each Junction Main element Main element Lateral wall E 2: Other lintels (including other stee lintels) External wall E 2: Other lintels (including other stee lintels) External wall E 3: Sill Calculated by person with suitable O.025 (I) AES custom ps values External wall E 4: Jamb Calculated by person with suitable O.019 (I) AES custom ps values External wall E 5: Ground floor (normal) Calculated by person with suitable O.026 (I) AES custom ps values External wall E 5: Ground floor (normal) Calculated by person with suitable O.002 (I) AES custom ps values External wall E 6: Intermediate floor within a Calculated by person with suitable O.005 AES custom ps values External wall E 10: Carves (insulation at ceiling Calculated by person with suitable O.036 (I) AES custom ps values External wall E 18: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.05 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.05 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.035 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.035 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.03								
Building part 1 - Main Dwelling: Thermal bridging calculated from linear thermal transmittances for each Junction Main element Main element Lateral wall E 2: Other lintels (including other stee lintels) External wall E 2: Other lintels (including other stee lintels) External wall E 3: Sill Calculated by person with suitable O.025 (I) AES custom ps values External wall E 4: Jamb Calculated by person with suitable O.019 (I) AES custom ps values External wall E 5: Ground floor (normal) Calculated by person with suitable O.026 (I) AES custom ps values External wall E 5: Ground floor (normal) Calculated by person with suitable O.002 (I) AES custom ps values External wall E 6: Intermediate floor within a Calculated by person with suitable O.005 AES custom ps values External wall E 10: Carves (insulation at ceiling Calculated by person with suitable O.036 (I) AES custom ps values External wall E 18: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.04 AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.05 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.05 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.035 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.035 (I) AES custom ps values External wall E 19: Carler (normal) Calculated by person with suitable O.03	2d Thermal bridging (better than typically expected values are flagged with a subsequent (!))							
Main element External wall         Unction detail         Source         Psi value (W/W)         Prevence (W/W)           External wall steel lintels)         E2: Other lintels (including other steel lintels)         Calculated by person with suitable (Calculated by person with suitable)         0.051         AES outsom psi values           External wall         E3: Sill         Calculated by person with suitable         0.025 (1)         AES outsom psi values           External wall         E4: Jamb         Calculated by person with suitable         0.06         AES custom psi values           External wall         E5: Ground floor (normal)         Calculated by person with suitable         0.002 (1)         AES custom psi values           External wall         E6: Intermediate floor within a dwelling         Calculated by person with suitable         0.002 (1)         AES custom psi values           External wall         E10: Eaves (insulation at ceiling level)         Calculated by person with suitable         0.002 (1)         AES custom psi values           External wall         E11: Ground floor         Calculated by person with suitable         0.002 (1)         AES custom psi values           External wall         E18: Party wall between dwelling         Calculated by person with suitable         0.028 (1)         AES custom psi values           Party wall         P1: Ground floor         Calculated by person with s								ch junction
External wall         E2: Other linitels (including other steel linitels)         reference expertise         W/mK1         AFS custom ps values           External wall         E3: Sill         Calculated by person with suitable expertise         0.051         AFS custom ps values           External wall         E4: Jamb         Calculated by person with suitable expertise         0.019         (I)         AFS custom ps values           External wall         E4: Jamb         Calculated by person with suitable expertise         0.06         AFS custom ps values           External wall         E6: Intermediate floor within a dwelling         Calculated by person with suitable expertise         0.02         (I)         AFS custom ps values           External wall         E10: Eaves (insulation at celling level)         Calculated by person with suitable expertise         0.02         (I)         AFS custom ps values           External wall         E16: Corner (normal)         Calculated by person with suitable expertise         0.036         (I)         AFS custom ps values           External wall         E18: Party wall between dwellings         Calculated by person with suitable expertise         0.036         (I)         AFS custom ps values           Party wall         P1: Ground floor         Calculated by person with suitable expertise         0.036         (I)         AFS custom ps values <t< td=""><td></td><td></td><td>i bilagilig da</td><td></td><td></td><td></td><td></td><td></td></t<>			i bilagilig da					
External wall E2: Other lintels (including other scalar and the second scalar and the second scalar and the second scalar and scalar							[W/mK]	
External wall       E3: Sill       Calculated by person with suitable experitse       0.025 (f)       AES custom ps values         External wall       E4: Jamb       Calculated by person with suitable experitse       0.019 (f)       AES custom ps values         External wall       E5: Ground floor (normal)       Calculated by person with suitable experitse       0.002 (f)       AES custom ps values         External wall       E6: Intermediate floor within a dwelling       Calculated by person with suitable experitse       0.002 (f)       AES custom ps values         External wall       E10: Eaves (insulation at ceiling level)       Calculated by person with suitable experitse       0.065       AES custom ps values         External wall       E12: Gable (insulation at ceiling level)       Calculated by person with suitable experitse       0.04       AES custom ps values         External wall       E18: Party wall between dwellings       Calculated by person with suitable experitse       0.036 (f)       AES custom ps values         Party wall       P1: Ground floor       Calculated by person with suitable experitse       0.031 (f)       AES custom ps values         Party wall       P1: Intermediate floor within a dwelling       SAP table default       0 (f)       0 (f)       AES custom ps values         3 Air permeability test certificate reference       f m/m²       Soft m/m²       Design value	External wall	E2: Other lintels (includ	ling other	Calculat	ed by person w	ith suitable	0.051	AES custom psi
External wall         E4: Jamb         Calculated by person with suitable expertise         0.019         (1)         AES custom ps values           External wall         E5: Ground floor (normal)         Calculated by person with suitable expertise         0.06         AES custom ps values           External wall         E6: Intermediate floor within a dwelling         Calculated by person with suitable expertise         0.06         AES custom ps values           External wall         E10: Eaves (insultation at ceiling level)         Calculated by person with suitable expertise         0.02         (I)         AES custom ps values           External wall         E12: Gable (insultation at ceiling expertise         Calculated by person with suitable expertise         0.036         (I)         AES custom ps values           External wall         E16: Corner (normal)         Calculated by person with suitable expertise         0.036         (I)         AES custom ps values           Party wall         P1: Ground floor         Eacluated by person with suitable expertise         0.037         (I)         AES custom ps values           Party wall         P2: Intermediate floor within a dwelling         SAP table default         0         (I)         AES custom ps values           SAIr permeability floor         SAP table default         0         (I)         AES custom ps values           SAi		steel lintels)	-				values	
External wall       E4: Jamb       Calculated by person with suitable expertise       0.019 (f)       AES custom ps values         External wall       E5: Ground floor (normal)       Calculated by person with suitable       0.06       AES custom ps values         External wall       E6: Intermediate floor within a dwelling       Calculated by person with suitable       0.002 (f)       AES custom ps values         External wall       E10: Eaves (insulation at ceiling level)       Calculated by person with suitable       0.065       AES custom ps values         External wall       E12: Gable (insulation at ceiling level)       Calculated by person with suitable       0.04       AES custom ps values         External wall       E12: Gable (insulation at ceiling level)       Calculated by person with suitable       0.036 (f)       AES custom ps values         External wall       E18: Party wall between dwellings       Calculated by person with suitable       0.036 (f)       AES custom ps values         Party wall       P1: Ground floor       Calculated by person with suitable       0.031 (f)       AES custom ps values         Party wall       P1: Rord (insulation at ceiling leve)       Calculated by person with suitable       0.031 (f)       AES custom ps values         Party wall       P2: Intermediate floor within a dwelling       Calculated by person with suitable       0.031 (f)       AES custom ps	External wall	E3: Sill		Calculat	ed by person w	ith suitable/	0.025 (!)	AES custom psi
expertise         expertise         values           External wall         E5: Ground floor (normal)         Calculated by person with suitable         0.06         values           External wall         E6: Intermediate floor with a         Calculated by person with suitable         0.002         (1)         AES custom ps           External wall         E10: Eaves (insulation at ceiling level)         Calculated by person with suitable         0.002         (1)         AES custom ps           External wall         E12: Gable (insulation at ceiling level)         Calculated by person with suitable         0.036         (!)         AES custom ps           External wall         E16: Corner (normal)         Calculated by person with suitable         0.036         (!)         AES custom ps           expertise         expertise         calculated by person with suitable         0.036         (!)         AES custom ps           expertise         calculated by person with suitable         0.031         (!)         AES custom ps           expertise         calculated by person with suitable         0.031         (!)         AES custom ps           expertise         calculated by person with suitable         0.031         (!)         AES custom ps           expertise         calculated by person with suitable         0.031         (!) </td <td></td> <td colspan="2"></td> <td colspan="2"></td> <td></td> <td></td>								
External wall       E5: Ground floor (normal)       Calculated by person with suitable on the surgerise       0.06       AES custom ps values         External wall       E6: Intermediate floor within a dwelling       Calculated by person with suitable on the surgerise       0.02 (I)       AES custom ps values         External wall       E10: Eaves (insulation at ceiling cloculated by person with suitable on the surgerise       0.085       AES custom ps values         External wall       E12: Gable (insulation at ceiling cloculated by person with suitable on the suitable on the surgerise       0.04       AES custom ps values         External wall       E12: Gable (insulation at ceiling cloculated by person with suitable on the surgerise       0.036 (I)       AES custom ps values         External wall       E18: Party wall between dwellings       Calculated by person with suitable on the values       0.028 (I)       AES custom ps values         Party wall       P1: Ground floor       Calculated by person with suitable on the values       0.031 (I)       AES custom ps values         Party wall       P2: Intermediate floor within a dwelling       Calculated by person with suitable on the values       0.031 (I)       AES custom ps values         Party wall       P2: Intermediate floor within a SAP table default       0 (I)       0 (I)       Values         Save persons with suitable on the values       Calculated by person with suitable on the values	External wall	E4: Jamb				0.019 <b>(!)</b>		
expertise         values           External wall         E6: Intermediate floor within a dwelling         Calculated by person with suitable         0.002 (1)         AES custom ps           External wall         E10: Eaves (insulation at ceiling level)         Calculated by person with suitable         0.065         AES custom ps           External wall         E12: Gable (insulation at ceiling level)         Calculated by person with suitable         0.046         AES custom ps           External wall         E16: Corner (normal)         Calculated by person with suitable         0.036 (1)         AES custom ps           expertise         Calculated by person with suitable         0.036 (1)         AES custom ps           expertise         expertise         Calculated by person with suitable         0.036 (1)         AES custom ps           expertise         expertise         Calculated by person with suitable         0.031 (1)         AES custom ps           values         Party wall         P1: Ground floor         Calculated by person with suitable         0.031 (1)         AES custom ps           Party wall         P2: Intermediate floor within a dwelling         Calculated by person with suitable         0.031 (1)         AES custom ps           Party wall         P2: Intermediate floor within a dwelling         Calculated by person with suitable         0.031 (1)	External wall	E5: Ground floor (norm	al)			ith suitable	0.06	
dwelling         expertise         values           External wall         E10: Eaves (insulation at ceiling level)         Calculated by person with suitable expertise         0.065         AES custom ps values           External wall         E12: Gable (insulation at ceiling level)         Calculated by person with suitable expertise         0.036 (t)         AES custom ps values           External wall         E16: Corner (normal)         Calculated by person with suitable expertise         0.036 (t)         AES custom ps values           External wall         E18: Party wall between dwellings Calculated by person with suitable expertise         0.031 (t)         AES custom ps values           Party wall         P1: Ground floor         Calculated by person with suitable expertise         0.031 (t)         AES custom ps values           Party wall         P2: Intermediate floor within a dwelling         Calculated by person with suitable expertise         0.031 (t)         AES custom ps values           3 Air permeability (better than typically expected values are flagged with a subsequent (t))         Maximum permitted air permeability at 50Pa         B m <sup>3</sup> /hm <sup>2</sup> Ar permeability test certificate reference         5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value         OK         OK           Ar permeability test certificate reference         Secondary heating system 1. Heat network - Heat network         Efficiency         Secondary heating system         N/A <td></td> <td></td> <td>)</td> <td></td> <td></td> <td></td> <td></td> <td></td>			)					
dwelling         expertise         values           External wall         E10: Eaves (insulation at ceiling level)         Calculated by person with suitable expertise         0.065         AES custom ps values           External wall         E12: Gable (insulation at ceiling level)         Calculated by person with suitable expertise         0.036 (t)         AES custom ps values           External wall         E16: Corner (normal)         Calculated by person with suitable expertise         0.036 (t)         AES custom ps values           External wall         E18: Party wall between dwellings Calculated by person with suitable expertise         0.031 (t)         AES custom ps values           Party wall         P1: Ground floor         Calculated by person with suitable expertise         0.031 (t)         AES custom ps values           Party wall         P2: Intermediate floor within a dwelling         Calculated by person with suitable expertise         0.031 (t)         AES custom ps values           3 Air permeability (better than typically expected values are flagged with a subsequent (t))         Maximum permitted air permeability at 50Pa         B m <sup>3</sup> /hm <sup>2</sup> Ar permeability test certificate reference         5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value         OK         OK           Ar permeability test certificate reference         Secondary heating system 1. Heat network - Heat network         Efficiency         Secondary heating system         N/A <td>External wall</td> <td>E6: Intermediate floor v</td> <td>vithin a</td> <td></td> <td></td> <td>/ith suitable</td> <td>0.002 (!)</td> <td>AES custom psi</td>	External wall	E6: Intermediate floor v	vithin a			/ith suitable	0.002 (!)	AES custom psi
level)     expertise     values       External wall     E12: Gable (insulation at ceiling level)     calculated by person with suitable     0.04     AES custom ps       External wall     E16: Corner (normal)     calculated by person with suitable     0.036 (t)     AES custom ps       expertise     expertise     0.036 (t)     AES custom ps     values       expertise     expertise     0.036 (t)     AES custom ps       expertise     expertise     0.036 (t)     AES custom ps       expertise     expertise     0.031 (t)     AES custom ps       values     Patry wall     P2: Intermediate floor within a     SAP table default     0 (t)       Awalues     expertise     0.035 (t)     AES custom ps       values     expertise     0.035 (t)     AES custom ps       values     expertise     0.035 (t)     AES custom ps       values     expertise     o.035 (t)     AES custom ps       values     expertise     o.035 (t)     AES custom ps		dwelling						
External wall       E12: Gable (insulation at ceiling level)       Calculated by person with suitable expertise       0.04       AES custom ps values         External wall       E16: Corner (normal)       Calculated by person with suitable expertise       0.036 (I)       AES custom ps values         External wall       E18: Party wall between dwellings       Calculated by person with suitable expertise       0.028 (I)       AES custom ps values         Party wall       P1: Ground floor       Calculated by person with suitable expertise       0.031 (I)       AES custom ps values         Party wall       P2: Intermediate floor within a dwelling       Calculated by person with suitable expertise       0.031 (I)       AES custom ps values         Party wall       P4: Roof (insulation at ceiling level)       Calculated by person with suitable expertise       0.035 (I)       AES custom ps values         3 Air permeability (better than typically expected values are flagged with a subsequent (I)       Maximum permeability at 50Pa       B m <sup>3</sup> /m <sup>2</sup> Develing air permeability at 50Pa       5.01 m <sup>3</sup> /m <sup>2</sup> , Design value       OK         Ar permeability test certificate reference	External wall	E10: Eaves (insulation	at ceiling	Calculat	ed by person w	ith suitable	0.065	AES custom psi
level)     expertise     values       External wall     E16: Corner (normal)     Calculated by person with suitable     0.036 (I)     AES custom ps       expertise     0.28 (I)     AES custom ps     values     values       Party wall     P1: Ground floor     Calculated by person with suitable     0.028 (I)     AES custom ps       Party wall     P1: Ground floor     Calculated by person with suitable     0.031 (I)     AES custom ps       Party wall     P2: Intermediate floor within a     dwelling     Calculated by person with suitable     0.035 (I)     AES custom ps       Party wall     P2: Intermediate floor within a     dwelling     Calculated by person with suitable     0.035 (I)     AES custom ps       Party wall     P4: Roof (insulation at ceiling level)     Calculated by person with suitable     0.035 (I)     AES custom ps       She permeability (better than typically expected values are flagged with a subsequent (I))     Maxinum permited air permeability at 50Pa     8 m²han²       Dwelling air permeability at 50Pa     5.01 m²/nm², Design value     OK     OK       Air permeability test certificate reference     Iman floar     Iman floar     Iman floar       Efficiency     Iman floar     Iman floar     Iman floar     Iman floar       System type     Iman floar     Iman floar     Iman floar     Iman floar <td></td> <td>/</td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td>		/	_					
External wall       E16: Corner (normal)       Calculated by person with suitable expertise       0.036 (I)       AES custom ps values         External wall       E18: Party wall between dwellings       Calculated by person with suitable expertise       0.028 (I)       AES custom ps valuese         Party wall       P1: Ground floor       Calculated by person with suitable expertise       0.031 (I)       AES custom ps valuese         Party wall       P2: Intermediate floor within a dwelling       SAP table default       0 (I)       Values         Party wall       P4: Roof (insulation at ceiling level)       Calculated by person with suitable expertise       0.035 (I)       AES custom ps values         3 Air permeability (better than typically expected values are flagged with a subsequent (I))       Masimum permeability at 50Pa       5.01 m?hm²         Maximum permetited air permeability at 50Pa       5.01 m?hm², Design value       OK         Air permeability test certificate reference       4       5.01 m?hm², Design value       OK         Main heating system 1: Heat network - Heat network       Efficiency       Start permeability at 50Pa       5.01 m?hm², Design value       OK         System type       Manufacturer       N/A       Start permeability at 50Pa       Start permeabi	External wall	E12: Gable (insulation	at ceiling	Calculat	ed by person w	ith suitable/	0.04	-
expertise     values       External wall     E18: Party wall between dwellings     Calculated by person with suitable expertise     0.028 (I)     AES custom ps valuese       Party wall     P1: Ground floor     Calculated by person with suitable expertise     0.031 (I)     AES custom ps valuese       Party wall     P2: Intermediate floor within a dwelling     SAP table default     0 (I)     0 (I)       Party wall     P2: Intermediate floor at ceiling level)     Calculated by person with suitable expertise     0.035 (I)     AES custom ps values       3 Air permeability (better than typically expected values are flagged with a subsequent (I))     Maximum permitted air permeability at 50Pa 5.01 m <sup>3</sup> /hm <sup>2</sup> 0K       Air permeability test certificate reference     Image: Sm <sup>3</sup> /hm <sup>2</sup> OK     OK       Air permeability at 50Pa Air permeability at 50Pa     5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value     OK       Air permeability at 50Pa     5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value     OK       Air permeability test certificate reference     Image: Sm <sup>3</sup> /hm <sup>2</sup> OK       4 Space heating     Image: Sm <sup>3</sup> /hm <sup>2</sup> Image: Sm <sup>3</sup> /hm <sup>2</sup> Main heating system 1: Heat network - Heat network     Image: Sm <sup>3</sup> /hm <sup>2</sup> Image: Sm <sup>3</sup> /hm <sup>2</sup> Model     Image: Sm <sup>3</sup> /hm <sup>2</sup> Image: Sm <sup>3</sup> /hm <sup>2</sup> Image: Sm <sup>3</sup> /hm <sup>2</sup> Commissioning     Image: Sm <sup>3</sup> /hm <sup>2</sup> Image: Sm <sup>3</sup> /hm <sup>2</sup> Image: Sm <sup>3</sup> /hm <sup>2</sup>		,						
External wall       E18: Party wall between dwellings       Calculated by person with suitable       0.028 (1)       AES custom ps valuese         Party wall       P1: Ground floor       Calculated by person with suitable       0.031 (1)       AES custom ps values         Party wall       P2: Intermediate floor within a dwelling       SAP table default       0 (1)       AES custom ps values         Party wall       P4: Roof (insulation at ceiling level       Calculated by person with suitable       0.035 (1)       AES custom ps values         3 Air permeability to better than typically expected values are flagged with a subsequent (1)/       Masimum permetability at 50Pa       8 m³/nm²         Dwelling air permeability at 50Pa       8 m³/nm²       OK       OK         Air permeability test certificate reference       9 solute       OK         4 Space heating       Main heating system 1: Heat network - Heat network       Efficiency       OK         Efficiency       Intermetability at 50Pa       5.01 m³/nm², Design value       OK         System type       System type       System type       System type         Flow temperature       System type       System type       System type         Growing system: N/A       N/A       Calculated by person walue       Calculate the superson walue         Commissioning       N/A       Sol	External wall	E16: Corner (normal)				ith suitable	0.036 (!)	
expertise     valuese       Party wall     P1: Ground floor     Calculated by person with suitable expertise     0.031 (I)     AES custom ps values       Party wall     P2: Intermediate floor within a dwelling     SAP table default     0 (I)     0.035 (I)     AES custom ps values       Party wall     P4: Roof (insulation at ceiling level)     Calculated by person with suitable expertise     0.035 (I)     AES custom ps values       3 Air permeability (better than typically expected values are flagged with a subsequent (I))     Maximum permitted air permeability at 50Pa     8 m³/m²       Dwelling air permeability test certificate reference     8 m³/m²     0K     0K       4 Space heating     0K     5.01 m³/hm².     0K       Main heating system 1: Heat network - Heat network     Efficiency     0K       Efficiency     Emitter type     1     1       Flow temperature     System type     1     1       System type     N/A     1     1       Gormissioning     N/A     1     1       5 Hot water     Cylinder/store - type: N/A     1       Calculated heat loss     N/A     1     1       Primary plework insulated     N/A     1     1       Model     Commissioning     1     1     1       Model     Commissioning     1     <	External wall	F18: Party wall betwee	n dwellings			ith suitable	0.028 (1)	
Party wall       P1: Ground floor       Calculated by person with suitable of the superson with superson superson with supers			in awoningo				0.020 (.)	
expertise     values       Party wall     P2: Intermediate floor within a dwelling     SAP table default     0 (t)       Party wall     P4: Roof (insulation at ceiling level)     Calculated by person with suitable expertise     0.035 (t)     AES custom ps values       3 Air permeability (better than typically expected values are flagged with a subsequent (!))     Maximum permitted air permeability at 50Pa     8 m³/mr²       Dweling air permeability test certificate reference     S.01 m³/mr²     0 (K       4 Space heating     OK       Main heating system 1: Heat network - Heat network     Efficiency       Efficiency     Imaufacturer       Model     Imaufacturer       Model     Imaufacturer       Model     N/A       Commissioning     Imaufacture       5 Hot water     N/A       Primary pipework insulated     N/A       Model     Imaufacturer       <	Party wall	P1: Ground floor				/ith suitable	0.031 (!)	
dwelling     Calculated by person with suitable     0.035 (!)     AES custom ps values       3 Air permeability (better than typically expected values are flagged with a subsequent (!))     Maximum permitted air permeability at 50Pa     8 m <sup>2</sup> /hm <sup>2</sup> 3 Air permeability (better than typically expected values are flagged with a subsequent (!))     Maximum permitted air permeability at 50Pa     8 m <sup>2</sup> /hm <sup>2</sup> 3 Maximum permitted air permeability at 50Pa     5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value     0K       Air permeability test certificate reference     5.01 m <sup>3</sup> /hm <sup>2</sup> , Design value     0K       4 Space heating     Main heating system 1: Heat network - Heat network     Efficiency     0K       Efficiency								
dwelling         dwelling         dwelling           Party wall         P4: Roof (insulation at ceiling level)         Calculated by person with suitable         0.035 (!)         AES custom ps values           3 Air permeability (better than typically expected values are flagged with a subsequent (!))         Maximum permitted air permeability at 50Pa         8 m³/hm²           1 Maximum permitted air permeability at 50Pa         8 m³/hm²         0K           Air permeability test certificate reference         5.01 m³/hm², Design value         0K           4 Space heating         Main heating system 1: Heat network - Heat network         6           Efficiency         Efficiency            Emitter type         Flow temperature            System type              Model         Commissioning             Secondary heating system: N/A              Fuel         N/A              Efficiency         N/A              Commissioning                Secondary heating system: N/A                Declared heat loss	Party wall	P2: Intermediate floor v	vithin a				0 (!)	
level     expertise     values       3 Air permeability (better than typically expected values are flagged with a subsequent (!))     Maximum permitted air permeability at 50Pa     8 m³/hm²       Dwelling air permeability at 50Pa     8 m³/hm²     OK       Air permeability test certificate reference     0K       4 Space heating     0K       Main heating system 1: Heat network - Heat network     0K       Efficiency     Efficiency       Flow temperature     System type       System type     0K       Manufacturer     Model       Commissioning     N/A       Efficiency     N/A       Efficiency     N/A       Commissioning     N/A       Secondary heating system: N/A     N/A       Fiel     N/A       Efficiency     N/A       Commissioning     Secondary heating system: N/A       Fuel     N/A       Efficiency     N/A       Commissioning     Secondary heating system       5     N/A       Perimary pipework insulated     N/A       Declared heat loss     N/A       Primary pipework insulated     N/A       Manufacturer     Model       Commissioning     Manufacturer       Manufacturer     Manufacturer <td>, , , , , , , , , , , , , , , , , , ,</td> <td>dwelling</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	, , , , , , , , , , , , , , , , , , ,	dwelling						
3 Air permeability (better than typically expected values are flagged with a subsequent (!))         Maximum permitted air permeability at 50Pa       8 m³/nm²         Dwelling air permeability at 50Pa       5.01 m³/hm², Design value       0K         Air permeability test certificate reference       0K         4 Space heating       Main heating system 1: Heat network - Heat network         Efficiency       Efficiency         Emitter type       System type         How temperature       System type         Manufacturer       Model         Commissioning       Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Secondary heating system: N/A         Fuel       N/A         Commissioning       Secondary heating system: N/A         Fuel       N/A         Commissioning       Secondary heating system: N/A         Fuel       N/A         Commissioning       Sistem type: N/A         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Model         Commissioning       Manufacturer         Model       Commissioning	Party wall	P4: Roof (insulation at	ceiling	Calculat	ed by person w	ith suitable	0.035 (!)	AES custom psi
Maximum permitted air permeability at 50Pa     8 m³/hm²       Dwelling air permeability at 50Pa     5.01 m³/hm², Design value     OK       Air permeability ets certificate reference     4     Space heating       Main heating system 1: Heat network - Heat network     Efficiency     Image: Comparison of the system 1 and		level)		expertis	e			values
Maximum permitted air permeability at 50Pa     8 m³/hm²       Dwelling air permeability at 50Pa     5.01 m³/hm², Design value     OK       Air permeability ets certificate reference     4     Space heating       Main heating system 1: Heat network - Heat network     Efficiency     Image: Comparison of the system 1 and	3 Air permeabil	ity (better than typically	v expected	values a	re flagged with	h a subseq	uent (!))	
Dwelling air permeability at 50Pa       5.01 m³/hm², Design value       OK         Air permeability test certificate reference       4       Space heating         Main heating system 1: Heat network - Heat network       Efficiency				8 m <sup>3</sup> /hm	f			
Air permeability test certificate reference			5.01 m <sup>3</sup>	'nm², Design va	alue		OK	
Main heating system 1: Heat network - Heat network         Efficiency         Efficiency         Emitter type         Flow temperature         System type         Manufacturer         Model         Commissioning         Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Image: Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Image: Secondary heating system: N/A         Stot water       Secondary heating system: N/A         Commissioning       Image: N/A         Stot water       N/A         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Image: Secondary system 1         Model       Image: Secondary system 1         Commissioning       Image: Secondary system 1         Waste water heat recovery system 1 - type: N/A       Image: Secondary system 1         Efficiency       Image: Secondary system 1         Manufacturer       Image: Secondary								
Main heating system 1: Heat network - Heat network         Efficiency         Efficiency         Emitter type         Flow temperature         System type         Manufacturer         Model         Commissioning         Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Image: Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Image: Secondary heating system: N/A         Stot water       Secondary heating system: N/A         Commissioning       Image: N/A         Stot water       N/A         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Image: Secondary system 1         Model       Image: Secondary system 1         Commissioning       Image: Secondary system 1         Waste water heat recovery system 1 - type: N/A       Image: Secondary system 1         Efficiency       Image: Secondary system 1         Manufacturer       Image: Secondary	A Space beating	a						
Efficiency       Emitter type         Flow temperature       System type         System type       Manufacturer         Manufacturer       Model         Commissioning       Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning       Secondary heating system: N/A         Efficiency       N/A         Commissioning       N/A         Sthot water       Capacity         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Manufacturer         Model       Commissioning         Waste water heat recovery system 1 - type: N/A       Efficiency         Manufacturer       Imanufacturer         Manufacturer       Manufacturer			Heat networ	·k				
Emitter typeFlow temperatureSystem typeManufacturerModelCommissioningSecondary heating system: N/AFuelN/AEfficiencyN/ACommissioningShot waterCylinder/store - type: N/ACapacityN/ADeclared heat lossN/APrimary pipework insulatedN/AModelCommissioningWater terSinger termCylinder/store - type: N/ASinger termEfficiencyN/ADeclared heat lossN/APrimary pipework insulatedN/AModelCommissioningWaste water heat recovery system 1 - type: N/AEfficiencyManufacturerManufacturerSite water heat recovery system 1 - type: N/AEfficiencyManufacturer				N.				
Flow temperature								
Manufacturer       Model         Model       Commissioning         Secondary heating system: N/A       Fuel         Fuel       N/A         Efficiency       N/A         Commissioning       State and the system of the syste		e						
Model	System type							
Commissioning       N/A         Fuel       N/A         Efficiency       N/A         Commissioning       N/A         5 Hot water       State Stat	Manufacturer							
Secondary heating system: N/A         Fuel       N/A         Efficiency       N/A         Commissioning          5 Hot water          Cylinder/store - type: N/A          Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer          Model          Commissioning          Waste water heat recovery system 1 - type: N/A         Efficiency          Manufacturer          Manufacturer          Manufacturer          Manufacturer          Manufacturer          Manufacturer          Manufacturer								
Fuel       N/A         Efficiency       N/A         Commissioning								
Efficiency       N/A         Commissioning       5         5 Hot water       5         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       1000000000000000000000000000000000000		ting system: N/A						
Commissioning         5 Hot water         Cylinder/store - type: N/A         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Model         Commissioning       Vaste water heat recovery system 1 - type: N/A         Efficiency       Manufacturer         Manufacturer       N/A								
5 Hot water         Cylinder/store - type: N/A         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Model         Commissioning       VA         Waste water heat recovery system 1 - type: N/A         Efficiency       Manufacturer         Manufacturer       N/A			IN/A					
Cylinder/store - type: N/A         Capacity       N/A         Declared heat loss       N/A         Primary pipework insulated       N/A         Manufacturer       Model         Commissioning       Vaste water heat recovery system 1 - type: N/A         Efficiency       Manufacturer         Manufacturer       N/A								
Capacity     N/A       Declared heat loss     N/A       Primary pipework insulated     N/A       Manufacturer     Model       Commissioning     Vaste water heat recovery system 1 - type: N/A       Efficiency     Manufacturer       Manufacturer     Manufacturer								
Declared heat loss     N/A       Primary pipework insulated     N/A       Manufacturer     Model       Commissioning     Vaste water heat recovery system 1 - type: N/A       Efficiency     Manufacturer		type: N/A	1					
Primary pipework insulated     N/A       Manufacturer     Model       Model     Image: Commissioning       Waste water heat recovery system 1 - type: N/A       Efficiency       Manufacturer								
Manufacturer       Model       Commissioning       Waste water heat recovery system 1 - type: N/A       Efficiency       Manufacturer								
Model     Model       Commissioning     Image: Waste water heat recovery system 1 - type: N/A       Efficiency     Image: Waste water heat recovery system 1 - type: N/A       Manufacturer     Image: Waste water heat recovery system 1 - type: N/A								
Commissioning       Waste water heat recovery system 1 - type: N/A       Efficiency       Manufacturer								
Waste water heat recovery system 1 - type: N/A         Efficiency         Manufacturer								
Efficiency Manufacturer		at recovery system 1 -	type: N/A					
Manufacturer		sation of a system 1 -						
	Model							

6 Controls					
	Main heating 1 - type: Flat rate charging, programmer, and TRVs				
Function					
Ecodesign class					
Manufacturer					
Model					
Water heating - type: Cylinder thermosta	at and HW separately	timed			
Manufacturer					
Model	HIU				
7 Lighting					
Minimum permitted light source efficacy	75 lm/W				
Lowest light source efficacy	81 lm/W		OK		
External lights control	N/A				
8 Mechanical ventilation	•				
System type: Decentralised mechanical	extract				
Maximum permitted specific fan power	0.7 W/(I/s)				
Specific fan power	0.16 W/(l/s)		ок		
Minimum permitted heat recovery	N/A		OR		
efficiency					
Heat recovery efficiency	N/A		N/A		
Manufacturer/Model	Lo-Carbon NBR dM	EV C 100 498095			
Commissioning					
9 Local generation					
N/A					
10 Heat networks					
Network name: Bexhill District Heat Net	work (GTC)				
Service provision		Space and water heating			
Status		New heat network			
Carbon dioxide emission factor for delive	red heat	0.057 kgCO <sub>2</sub> /kWh			
Primary energy factor for delivered heat		0.606 kWh <sub>PE</sub> /kWh			
11 Supporting documentary evidence					
N/A					
12 Declarations					
a. Assessor Declaration					
This declaration by the assessor is confirmation that the contents of this BREL Compliance Report					
are a true and accurate reflection based upon the design information submitted for this dwelling for					
the purpose of carrying out the "As de					
evidence (SAP Conventions, Appendi					
documentary evidence required) has been reviewed in the course of preparing this BREL					
Compliance Report.		I			
		A			
Signed:		Assessor ID:			
Signed:		Assessor ID:			
Signed: Name:		Assessor ID: Date:			
Name:					

## **Predicted Energy Assessment**

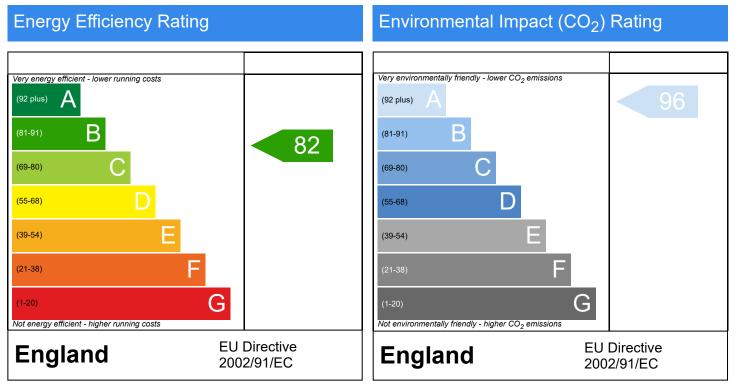


Plot 067, 4, Swallowtail Drive, Bexhill, TN40 2QX

Dwelling type: Date of assessment: Produced by: Total floor area: DRRN: House, Semi-Detached 03/07/2024 Daniel Hilsdon 84.22 m<sup>2</sup> 0204-5932-7015

This document is a Predicted Energy Assessment for properties marketed when they are incomplete. It includes a predicted energy rating which might not represent the final energy rating of the property on completion. Once the property is completed, this rating will be updated and an official Energy Performance Certificate will be created for the property. This will include more detailed information about the energy performance of the completed property.

The energy performance has been assessed using the Government approved SAP 10 methodology and is rated in terms of the energy use per square meter of floor area; the energy efficiency is based on fuel costs and the environmental impact is based on carbon dioxide (CO2) emissions.



The energy efficiency rating is a measure of the overall efficiency of a home. The higher the rating the more energy efficient the home is and the lower the fuel bills are likely to be. The environmental impact rating is a measure of a home's impact on the environment in terms of carbon dioxide  $(CO_2)$  emissions. The higher the rating the less impact it has on the environment.