











Building Energy Performance		Scotland						
Energy Performance Certificate	Calculated asset rating using iSBEM v4.1.1.d [SBEM]	Building type Residential Inst.: Hospitals and Care Homes						
	<b>Current rating</b>							
	<b>Excellent</b>							
		<b>Carbon Neutral</b>						
		<b>A (0 to 15)</b>						
		<b>B (16 to 30)</b>						
		<b>C (31 to 45)</b>						
		<b>D (46 to 60)</b>						
	<b>E (61 to 80)</b>							
	<b>F (81 to 100)</b>							
	<b>G (100+)</b>							
<b>Very Poor</b>								
<b>Carbon Dioxide Emissions</b>								
The number refers to the calculated carbon dioxide emissions in terms of kg per m <sup>2</sup> of floor area per year		<b>90</b>						
Approximate current energy use per m <sup>2</sup> of floor area:		<b>361 kWh/m<sup>2</sup></b>						
Main heating fuel: Natural Gas		Building Services: Heating with Nat. Vent.						
Renewable energy source: None		Electricity: Grid supplied						
<b>Carbon Dioxide is a greenhouse gas which contributes to climate change. Less Carbon Dioxide emissions from buildings helps the environment.</b>								
<b>Benchmarks</b>								
A building of this type built to building regulations standards current at the date of issue of this certificate would have a rating:		<b>40</b>  <b>C</b>						
Where the accompanying recommendations for the cost effective improvement of energy performance are applied, this building would have a rating:		<b>70</b>  <b>E+</b>						
<b>Recommendations for the cost-effective improvement (lower cost measures) of the energy performance</b>								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">1. Improve insulation on HWS storage.</td> <td style="width: 50%;">4. Consider replacing T8 lamps with retrofit T5 conversion kit.</td> </tr> <tr> <td>2. Consider replacing heating boiler plant with high efficiency type.</td> <td>5. The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements.</td> </tr> <tr> <td>3. Add optimum start/stop to the heating system.</td> <td>6. Some windows have high U-values - consider installing secondary glazing.</td> </tr> </table>			1. Improve insulation on HWS storage.	4. Consider replacing T8 lamps with retrofit T5 conversion kit.	2. Consider replacing heating boiler plant with high efficiency type.	5. The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements.	3. Add optimum start/stop to the heating system.	6. Some windows have high U-values - consider installing secondary glazing.
1. Improve insulation on HWS storage.	4. Consider replacing T8 lamps with retrofit T5 conversion kit.							
2. Consider replacing heating boiler plant with high efficiency type.	5. The default heat generator efficiency is chosen. It is recommended that the heat generator system be investigated to gain an understanding of its efficiency and possible improvements.							
3. Add optimum start/stop to the heating system.	6. Some windows have high U-values - consider installing secondary glazing.							

**Address:** Gilbert Road Childrens Home, 2 Gilbert Road, Bucksburn, Aberdeen AB21  
**Conditioned area (m<sup>2</sup>):** 357  
**Name of protocol organisation:** Bre, [BRE-ND-EPC00535]  
**Date of issue of certificate:** 07 Feb 2013 (Valid for a period not exceeding 10 years)  
 This certificate is a requirement of EU Directive 2002/91/EC on the energy performance of buildings.  
**NB THIS CERTIFICATE MUST BE AFFIXED TO THE BUILDING AND NOT REMOVED UNLESS REPLACED WITH AN UPDATED VERSION AND FOR PUBLIC BUILDINGS DISPLAYED IN A PROMINENT PLACE**