

Change Note		CN-007
Change to: Technical Assumption 9 & 10		
Description: High temperature test space heating flow and return temperatures		
References: Test regime paragraphs 4.5 & 4.7, Tests 1a-1c		
Change originator: VK		Date of request: 25/04/2022
Rev: 2	Date authored: 25/04/2022	Proposed change to assumption: Y

1. Proposed Approach

Change space heating flow temperature to 55°C

Change space heating return temperature to 35°C

2. Rationale (underlying basis for the change)

Building Regulations 2021, Part L specified maximum flow temperature of 55°C for new dwellings with boiler and radiator systems (Section 5.10).

The recommendation for the HIU test procedure is to change the flow temperature to match the updated regulations.

Reduced flow temperature would be beneficial for the wider application of 4th generation heat networks and use of heat pumps that provide better performance at low temperatures.

Note that this is based on the assumption that the space heating return temperature will be adjusted to 35°C to maintain 20°C dT.

3. Impact of change (e.g. implications for test rig)

No impact

Evaluation of change			
Date evaluated: 26/04/22	Those present: BESA HIU Technical Committee	Additional info required?: N	Modification to proposed approach?: N

Details:

Confirmation of high temperature test, space heating flow and return temperatures

Signed off: Yes