



Assumption Change Control Sheet

Test	2a/2b, 3a, 5a
Assumption	27 / 28 Pass/Fail criteria for temperature and duration of DHW exceeding scalding limits

Change Originator	Wayne Early
Change Request No.	039
Date of Request	29/10/2020
Proposed Change to Assumption?	Y

Proposed Approach:

Reduce the maximum threshold from 65°C to 60°C, with a time limit of <1 second. Report on number of consecutive seconds >55°C.

Rationale (underlying basis for assumption)

At 65°C there is a significant risk of scalding, even from short term exposure – e.g. 3rd degree burns in 0.5 seconds for a child.

At 60°C this risk is reduced, but still significant if prolonged. As such, 60°C should be viewed as a hard limit. As there is still a risk of scalding at temperatures above 55°C, is it felt that this number should be reported, as design consultants should be provided this information and there should be a general pressure within the industry to get better control over DHW temperatures and reduce the risk of scalding – while balancing the fact that certain manufacturers may struggle to keep DHW temperatures below 55°C at this time. It is acknowledged that other DHW systems in the industry operate at higher temperatures.

Impact of Change (e.g. implications for test rig)

N/A

CHANGE EVALUATION

Date Evaluated	29/10/20
Additional Information Required?	N
Modification to Proposed Approach?	N
Details	
Signed-off	Y