AWS D17.1 Interpretation

Subject: Qualified Thickness Range
Code Provision: Paragraph 4.3.3.1
AWS Log: D17.1-01-I04

Inquiry: Paragraph 4.3.3.1 (1) defines the qualified thickness range based on a test weld thickness of t. It also defines that 2 test welds qualify welds with intermediate thickness.

It is however unclear on the qualification range when 2 unequal thicknesses are used in a fillet test weld. This can be interpreted in several different ways. Take the following for example:

a.) 0.67t of thinner member to 4t of the thicker member
b.) 0.67t to 4t of the thinner member
c.) Range of thinner member to thicker member thicknesses

Proposed Reply
Define qualified thickness range if un-equal thickness members are used in fillet weld tests for welder qualifications.

Response: The answer is 0.67t to 4t of the thinner member.