Dear Mr. Butler,

The question that you submitted was reviewed by our Technical Committee on Product Standards. Your question and our response to it are as follows:

Your Question:

Question regarding ANSI H35.2, Table 11.6, and Footnote 9.

Does Footnote 9 apply to the entire Table?

Our Response:

Yes, footnote 9 applies to the entire Table 11.6. Straightness tolerances must be met in all orientations including those that are not self-supporting. For example, a tube may need to be held in place artificially to measure its bow in an orientation that the tube would not assume when freely resting, as see in the image below:
Tolerance measurements taken in the direction of bow and orientation of sample as seen in the above image also adhere to footnote 3, which states that the measurement is to be taken such that the weight of the piece acting on itself minimizes deviation.

The following two video resources provide more clarity on how straightness tolerances are calculated and the implications behind some of the footnotes of the table:

2. ILSCO Extrusions: https://youtu.be/ghX289YwMFl?si=jGvFxemn-dbD0HHt

With best regards,

Sam Muhamed

cc: TCPS Members
ASC H35 Members
Dima Atiya – Baker & Hostetler
“Response Letters to Interpretation Questions” Folder