Subject: RE: Inquiry - ANSI-H35.2-2017, Damages and Applicable Tables (Plate, Extruded Profiles)

Dear Hiromi,

I hope you are doing well. Please see the attachment in reference to your ANSI interpretation question regarding "ANSI-H35.2-2017, Damages and Applicable Tables (Plate, Extruded Profiles)".

Kindly note that the response is also being sent to the members of the ANSI Accredited Standards Committee (ASC) H35. The response is open to additional comments from ASC H35, if any, for a period of 60 days, subsequent to which it may be considered final.

Yours sincerely,

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JOIN THE CONVERSATION:

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Dear Hiromi,

The inquiry for interpretation that you submitted on June 18, 2021 was reviewed by our Technical Committee on Product Standards (TCPS). Our response is summarized as follows:

**Your Inquiry (paraphrased):**

Surface Damage of Extruded Profiles (Figure 1)

1) When there is a burr/a bulge near a damage on the surface, how to scale the damage depth?
   i) from the top of a burr/a bulge to the bottom of a damage [A/A’ to B]?
   ii) from the surface itself to the bottom of a damage? (disregarding the extra height of a burr/a bulge)

2) For allowable depth, should Table 11.10 be referred to?
3)
Here again please let us come to you to ask for the answers to our questions below:

1. Corner Damage of Extruded Profiles
   - See Figure 2:
     1) Is Table 11.2 to be applied to?
        If yes,
        2) When C is 2.980”, does this conform to the requirement of Table 11.2?
           And when D is 2.950”, does this not conform to the requirement of Table 11.2?
           Or if not, which table should be referred to?

2. Damage of Sawed Plate;
   (when 7075-T65, L: 245.00” x W: 85.00” x T: 0.250” indicated in a drawing)
   - See Figure 3:
     1) Length (E): 244.99” = conformed to Table 7.10?
     2) Width (F): 85.20” = conformed to Table 7.10?
     3) When Table 7.7b is also applicable,
        Thickness: 0.240 = conformed to Table 7.7b?
     4) And for Sheard Plate,
        Table 7.8 applied to Width? and Table 7.9 applied to Length?

3. Edge Damage of Extruded Profiles as Figure 3
   Is Table 11.2 also applicable?
   with scaling E and F, each, to see how many inches short? from Specified Dimension?
Our Response:
Thank you for writing to us. Our responses are as follows:

Surface Damage of Extruded Profiles (Figure 1)
1) Option ii) is correct. The depth of the damage is measured from the surface of the profile to the maximum depth of the trough, disregarding any extra height resulting from burrs or bulges. The correct depth is given by the dimension B in Figure 1.
2) Yes, Table 11.10 of ANSI H35.2 is referred to for allowable depth.

Regarding the remaining questions, we are concerned that the use of dimensional tolerances to address damage to an edge or corner may not be appropriate. Thickness, width, and length should be measured as overall dimensions, not to the inside of damaged corners. The impact of the damaged corner is situational and should be addressed as a surface quality anomaly as opposed to a dimensional nonconformity.

With best regards,

John G. Weritz

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