Correction to: Investigation on Bond-Slip Behavior of Z-Pin Interfaces in X-Cor® Sandwich Structures Using Z-Pin Pull-Out Test

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The original version of this article unfortunately contains mistakes. Below are the corrections:

1) In Equation 1, a “less-than or equal to ($\leq$)” sign was captured in the third line instead of the correct “less than sign ($<$)”. The correct equation is shown below:

$$P = \begin{cases} \frac{\delta}{\delta_1} P_d & (0 \leq \delta \leq \delta_1) \\ \frac{\delta_2 - \delta}{\delta_2 - \delta_1} P_d + \frac{\delta - \delta_1}{\delta_2 - \delta_1} P_f & (\delta_1 \leq \delta \leq \delta_2) \\ P_f + \frac{\delta_2 - \delta}{h - \delta_2} P_f & (\delta_2 < \delta \leq h) \end{cases} \quad (1)$$

The online version of the original article can be found at <https://doi.org/10.1007/s10443-018-9693-1>

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2) In Equation 9, a “minus (-)” sign is missing in the second line and a “less-than or equal to ($\leq$)” sign was captured in the third line instead of the correct “less than sign ($<$)”. The correct equation is shown below:

$$\tau_s = \begin{cases} \frac{\tau_d}{\delta_1} \delta & (0 \leq \delta \leq \delta_1) \\ \frac{\delta_f \tau_d - \delta_d \tau_f}{\delta_2 - \delta_1} - \frac{\tau_d - \tau_f}{\delta_2 - \delta_1} \delta & (\delta_1 \leq \delta \leq \delta_2) \\ \frac{h - \delta}{h - \delta_2} \tau_f & (\delta_2 < \delta \leq h) \end{cases}$$

3) Figures 6, 11, and 13 were not updated during the modification stage. The correct figures are now shown below.

Fig. 6 Load-displacement curves of 3×3 Z-Pins pull-out from laminates (a) sample thickness of 4 mm (b) sample thickness of 6 mm

Elements :4340
C3D8R-Laminate :3366
T3D2-Z-pin :54
SPRING2-Long.z-direction :72
SPRING2-Trans.x-direction :72
SPRING2-Lateral.y-direction :72
R3D4-T-shaped.tab :704

Fig. 11 Finite element modeling for Z-Pin pull-out test

Fig. 13 Comparison of load-slip curve between numerical and experimental results (a) sample thickness of 3 mm (b) sample thickness of 4 mm c sample thickness of 6 mm

The original article has been corrected.