

Refname	DD:sdf.tol
Label	Stress Distribution Factor (Function) Based on Pbtol
Units	Unitless
Equation	$J_{tol} = \log \left(\log \left(\frac{1}{1-P_{btol}} \right) \frac{\left(\frac{a}{1000} \frac{b}{1000} \right)^{m-1}}{k \left(\left(E \cdot 1000 \left(\frac{h}{1000} \right)^2 \right) \right)^m \cdot LDF} \right)$
Description	<p>J_{tol} is the stress distribution factor (Function) based on Pbtol</p> <p>P_{btol} is the tolerable probability of breakage</p> <p>a is the plate length (long dimension) (m)</p> <p>b is the plate width (short dimension) (m)</p> <p>m is the surface flaw parameter ($\frac{\text{m}^{12}}{\text{N}^7}$)</p> <p>$k$ is the surface flaw parameter ($\frac{\text{m}^{12}}{\text{N}^7}$)</p> <p>$E$ is the modulus of elasticity of glass (Pa)</p> <p>h is the actual thickness (m)</p> <p>LDF is the load duration factor</p>