

Michael L McCool Jr., P.E. February 22, 2022













































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**Pullout Resistance** Determine steel and concrete resistances per foot for comparison to top dowel bar tension.

 *μ* ≤ *φN*<sub>sa</sub> <sup>12 in.</sup>/<sub>Bar Spacing</sub>
 *μ* ≤ *φN*<sub>cb</sub> <sup>12 in.</sup>/<sub>Bar Spacing</sub>
 *μ* = Top dowel bar pullout force
 *μ* = Nominal Steel Strength of Single Anchor
 *μ*<sub>cb</sub> = Nominal Concrete Breakout Strength





















