Steel Equivalency Chart

Most steel reinforcing designs in the precast industry use grade 40 or 60 rebar. The yield strength of grade 40 rebar is 40,000 p.s.i. steel cross sectional areas may be reduced by using higher strength steels and still maintain equivalent yield strengths.

The following chart has been developed to show equivalent yield strengths for grade 40 rebar, grade 60 rebar, and 65 k.s.i. welded wire mesh. The equivalent steel areas are directly proportional to the yield strengths, therefore:

Grade 60 steel area = \( \frac{40,000}{60,000} \times \text{grade 40 steel area} \)

65 k.s.i. welded wire mesh = \( \frac{40,000}{65,000} \times \text{grade 40 steel area} \)

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