8" HOLLOW CORE SLAB
COMPOSITE WITH 2½" CONCRETE TOPPING

\[ f'_{c \text{ topping}} = 4,000 \text{ psi} \]

COMPOSITE SECTION PROPERTIES (with shear key grouted)

\[ I_c = 3,336 \text{ in}^4 \quad S_{tc} = 972 \text{ in}^3 \quad S_{bc} = 612 \text{ in}^3 \quad S_{sf} = 1,308 \text{ in}^3 \]

\[ w = 90 \text{ psf} \quad y_{tc} = 5.05 \text{ in} \quad y_{bc} = 5.45 \text{ in} \quad y_{sf} = 2.55 \text{ in} \]

NOTES:

1. The values given in this chart are in compliance with ACI 318-14.
2. The values given in this chart are based on hollow core slabs without shear reinforcement. See SHEAR for discussion.
3. Refer to DEFLECTIONS for discussion of deflection criteria.
4. This Span-Load Chart is intended as an aid to preliminary sizing only, and must be interpreted using sound engineering judgment.
5. Interface shear governs the design of composite topped hollow core slabs above this line.
COMPOSITE SECTION PROPERTIES (with shear key grouted)

\[ I_c = \text{in}^4 \quad S_{tc} = \text{in}^3 \quad S_{bc} = \text{in}^3 \quad S_f = \text{in}^3 \]

\[ w = \frac{p}{\text{sf}} \quad y_{tc} = \text{in} \quad y_{bc} = \text{in} \quad y_f = \text{in} \]

NOTES:

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