SECTION PROPERTIES

\[
\begin{align*}
I_c &= 7,415 \text{ in}^4 \\
S_{lc} &= 2,593 \text{ in}^3 \\
S_{bc} &= 723 \text{ in}^3 \\
S_{lf} &= 4,241 \text{ in}^3 \\
A &= 398 \text{ in}^2 \\
w &= 77 \text{ psf} \\
y_{lc} &= 4.25 \text{ in} \\
y_{bc} &= 10.25 \text{ in} \\
y_{lf} &= 1.75 \text{ in}
\end{align*}
\]

NOTES:

1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC's Marketing Department for concrete release strength requirements.
SECTION PROPERTIES

I_c = 15,094 in^4  S_{tc} = 4,243 in^3  S_{bc} = 1,142 in^3  S_{if} = 5,420 in^3  A = 454 in^2
w = 83 psf  y_{tc} = 5.29 in  y_{bc} = 13.21 in  y_{if} = 2.79 in

NOTES:

1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC's Marketing Department for concrete release strength requirements.
SECTIONS PROPERTIES

\[
\begin{align*}
I_c &= 26,442 \text{ in}^4 \\
S_{tc} &= 6,118 \text{ in}^3 \\
S_{bc} &= 1,644 \text{ in}^3 \\
S_{fr} &= 6,744 \text{ in}^3 \\
A &= 507 \text{ in}^2
\end{align*}
\]

**NOTES:**

1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC's Marketing Department for concrete release strength requirements.
CONCRETE TECHNOLOGY CORPORATION
24" DOUBLE TEE WITH 2½" TOPPING

SECTION PROPERTIES

\[ I_c = 41,707 \text{ in}^4 \quad S_{tc} = 8,146 \text{ in}^3 \quad S_{bc} = 2,207 \text{ in}^3 \quad S_{y} = 8,169 \text{ in}^3 \quad A = 557 \text{ in}^2 \]

\[ w = 95 \text{ psf} \quad y_{tc} = 7.61 \text{ in} \quad y_{bc} = 18.89 \text{ in} \quad y_{y} = 5.11 \text{ in} \]

NOTES:

1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC's Marketing Department for concrete release strength requirements.
CONCRETE TECHNOLOGY CORPORATION

28" DOUBLE TEE WITH 2½" TOPPING

SECTION PROPERTIES

\[ I_c = 61,084 \text{ in}^4 \quad S_{tc} = 10,280 \text{ in}^3 \quad S_{bc} = 2,818 \text{ in}^3 \quad S_f = 9,655 \text{ in}^3 \quad A = 604 \text{ in}^2 \]

\[ w = 100 \text{ psf} \quad y_{tc} = 8.83 \text{ in} \quad y_{bc} = 21.67 \text{ in} \quad y_f = 6.33 \text{ in} \]

NOTES:

1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC's Marketing Department for concrete release strength requirements.
CONCRETE TECHNOLOGY CORPORATION
32" DOUBLE TEE WITH 2½" TOPPING

SECTION PROPERTIES

\[ \begin{align*}
I_c &= 84,597 \text{ in}^4 \\
S_{tc} &= 12,497 \text{ in}^3 \\
S_{bc} &= 3,461 \text{ in}^3 \\
S_{lf} &= 11,169 \text{ in}^3 \\
A &= 648 \text{ in}^2
\end{align*} \]

NOTES:

1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC's Marketing Department for concrete release strength requirements.
SECTION PROPERTIES

\[ l_c = 112,204 \text{ in}^4 \quad S_{lc} = 14,776 \text{ in}^3 \quad S_{bc} = 4,122 \text{ in}^3 \quad S_{sf} = 12,779 \text{ in}^3 \quad A = 689 \text{ in}^2 \]
\[ w = 110 \text{ psf} \quad y_{lc} = 11.28 \text{ in} \quad y_{bc} = 11.28 \text{ in} \quad y_{sf} = 8.78 \text{ in} \]

NOTES:
1. The values in the chart are in compliance with ACI 318-19.
2. The values in the chart assume that additional shear reinforcement is added as necessary.
3. Extrapolation beyond the bounds of the chart is not permitted.
4. The standard top flange reinforcement is WWF 8x4-W2.9/W2.9, and the maximum safe uniform load on the flange with this reinforcement is 80 psf. The maximum safe concentrated load is 500 lbs.
5. This Span-Load chart is intended as an aid to preliminary sizing. Sound engineering judgement is required for the application of this information to specific design cases.
6. Design cases presented above were limited to a maximum span-to-depth ratio of 30.
7. Contact CTC’s Marketing Department for concrete release strength requirements.