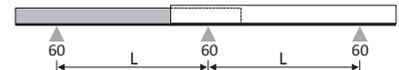


BELKA DWUPRZĘŚŁOWA

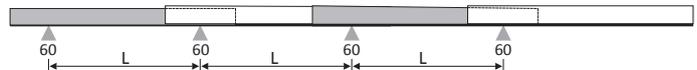
POZYTYW



| Gru- bość | Jx [cm ⁴] | Przypa- dek | Dopuszczalne obciążenia ciągłe równomiernie rozłożone w kN/m ² przy rozpiętości L(m) | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------------|----------------|---|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.25 | 4.50 | 4.75 | 5.00 | 5.25 | 5.50 | 5.75 | 6.00 | 6.25 | 6.50 | 6.75 | 7.00 | 7.25 | 7.50 |
| 0.70 | min/max 112.34 119.05 | SGN | 6.25 | 5.68 | 5.21 | 4.81 | 4.47 | 4.17 | 3.91 | 3.68 | 3.38 | 3.10 | 2.82 | 2.57 | 2.35 | 2.15 | 1.98 | 1.82 | 1.69 | 1.57 | 1.46 | 1.36 | 1.27 |
| | | L/150 | 6.25 | 5.68 | 5.21 | 4.81 | 4.47 | 4.17 | 3.91 | 3.68 | 3.38 | 3.02 | 2.60 | 2.26 | 1.97 | 1.73 | 1.53 | 1.36 | 1.21 | 1.08 | 0.97 | 0.88 | 0.79 |
| | | L/200 | 6.25 | 5.68 | 5.21 | 4.81 | 4.47 | 4.17 | 3.80 | 3.21 | 2.71 | 2.31 | 1.99 | 1.72 | 1.50 | 1.32 | 1.16 | 1.03 | 0.92 | 0.82 | 0.74 | 0.66 | 0.60 |
| | | L/300 | 6.25 | 5.68 | 5.21 | 4.72 | 3.84 | 3.14 | 2.61 | 2.18 | 1.85 | 1.57 | 1.35 | 1.16 | 1.01 | 0.89 | 0.78 | 0.69 | 0.61 | 0.55 | 0.49 | 0.44 | 0.40 |
| 0.75 | 122.31 127.56 | SGN | 7.19 | 6.54 | 6.00 | 5.53 | 5.14 | 4.80 | 4.50 | 4.13 | 3.77 | 3.43 | 3.11 | 2.83 | 2.59 | 2.37 | 2.18 | 2.01 | 1.86 | 1.73 | 1.61 | 1.50 | 1.40 |
| | | L/150 | 7.19 | 6.54 | 6.00 | 5.53 | 5.14 | 4.80 | 4.50 | 4.13 | 3.77 | 3.28 | 2.82 | 2.45 | 2.14 | 1.88 | 1.66 | 1.47 | 1.31 | 1.17 | 1.05 | 0.95 | 0.85 |
| | | L/200 | 7.19 | 6.54 | 6.00 | 5.53 | 5.14 | 4.80 | 4.13 | 3.48 | 2.94 | 2.51 | 2.16 | 1.87 | 1.63 | 1.42 | 1.25 | 1.11 | 0.98 | 0.88 | 0.79 | 0.71 | 0.64 |
| | | L/300 | 7.19 | 6.54 | 6.00 | 5.16 | 4.17 | 3.41 | 2.82 | 2.35 | 1.98 | 1.68 | 1.44 | 1.25 | 1.08 | 0.95 | 0.83 | 0.74 | 0.66 | 0.59 | 0.53 | 0.47 | 0.43 |
| 0.80 | 132.30 136.06 | SGN | 8.20 | 7.45 | 6.83 | 6.31 | 5.86 | 5.46 | 5.04 | 4.57 | 4.17 | 3.75 | 3.40 | 3.09 | 2.83 | 2.59 | 2.38 | 2.20 | 2.03 | 1.89 | 1.75 | 1.64 | 1.53 |
| | | L/150 | 8.20 | 7.45 | 6.83 | 6.31 | 5.86 | 5.46 | 5.04 | 4.57 | 4.15 | 3.54 | 3.04 | 2.64 | 2.31 | 2.02 | 1.78 | 1.58 | 1.40 | 1.25 | 1.12 | 1.01 | 0.91 |
| | | L/200 | 8.20 | 7.45 | 6.83 | 6.31 | 5.86 | 5.38 | 4.48 | 3.75 | 3.17 | 2.69 | 2.31 | 1.99 | 1.73 | 1.52 | 1.34 | 1.18 | 1.05 | 0.94 | 0.84 | 0.76 | 0.68 |
| | | L/300 | 8.20 | 7.45 | 6.83 | 5.58 | 4.49 | 3.65 | 3.01 | 2.51 | 2.11 | 1.79 | 1.54 | 1.33 | 1.16 | 1.01 | 0.89 | 0.79 | 0.70 | 0.63 | 0.56 | 0.50 | 0.46 |
| 0.88 | 147.07 149.67 | SGN | 9.93 | 9.02 | 8.27 | 7.64 | 7.09 | 6.47 | 5.83 | 5.29 | 4.74 | 4.27 | 3.87 | 3.52 | 3.22 | 2.95 | 2.71 | 2.50 | 2.31 | 2.15 | 2.00 | 1.86 | 1.74 |
| | | L/150 | 9.93 | 9.02 | 8.27 | 7.64 | 7.09 | 6.47 | 5.83 | 5.29 | 4.63 | 3.95 | 3.39 | 2.92 | 2.54 | 2.23 | 1.96 | 1.73 | 1.54 | 1.38 | 1.23 | 1.11 | 1.00 |
| | | L/200 | 9.93 | 9.02 | 8.27 | 7.64 | 7.09 | 6.02 | 4.96 | 4.13 | 3.48 | 2.96 | 2.54 | 2.19 | 1.91 | 1.67 | 1.47 | 1.30 | 1.16 | 1.03 | 0.93 | 0.83 | 0.75 |
| | | L/300 | 9.93 | 9.02 | 7.83 | 6.16 | 4.93 | 4.01 | 3.31 | 2.76 | 2.32 | 1.97 | 1.69 | 1.46 | 1.27 | 1.11 | 0.98 | 0.87 | 0.77 | 0.69 | 0.62 | 0.56 | 0.50 |
| 1.00 | 170.08 170.08 | SGN | 12.81 | 11.64 | 10.67 | 9.85 | 8.79 | 7.87 | 7.05 | 6.28 | 5.62 | 5.06 | 4.58 | 4.17 | 3.81 | 3.49 | 3.21 | 2.96 | 2.74 | 2.54 | 2.36 | 2.20 | 2.06 |
| | | L/150 | 12.81 | 11.64 | 10.67 | 9.85 | 8.79 | 7.87 | 7.05 | 6.26 | 5.28 | 4.49 | 3.85 | 3.32 | 2.89 | 2.53 | 2.23 | 1.97 | 1.75 | 1.56 | 1.40 | 1.26 | 1.14 |
| | | L/200 | 12.81 | 11.64 | 10.67 | 9.85 | 8.41 | 6.84 | 5.63 | 4.70 | 3.96 | 3.37 | 2.89 | 2.49 | 2.17 | 1.90 | 1.67 | 1.48 | 1.31 | 1.17 | 1.05 | 0.95 | 0.85 |
| | | L/300 | 12.81 | 11.56 | 8.90 | 7.00 | 5.61 | 4.56 | 3.76 | 3.13 | 2.64 | 2.24 | 1.92 | 1.66 | 1.45 | 1.26 | 1.11 | 0.98 | 0.88 | 0.78 | 0.70 | 0.63 | 0.57 |
| 1.25 | 212.60 212.60 | SGN | 19.89 | 17.96 | 15.67 | 13.80 | 12.21 | 10.70 | 9.45 | 8.40 | 7.52 | 6.77 | 6.13 | 5.57 | 5.09 | 4.66 | 4.28 | 3.95 | 3.65 | 3.39 | 3.15 | 2.94 | 2.74 |
| | | L/150 | 19.89 | 17.96 | 15.67 | 13.80 | 12.21 | 10.70 | 9.39 | 7.83 | 6.60 | 5.61 | 4.81 | 4.15 | 3.61 | 3.16 | 2.78 | 2.46 | 2.19 | 1.95 | 1.75 | 1.58 | 1.42 |
| | | L/200 | 19.89 | 17.96 | 15.67 | 13.13 | 10.51 | 8.55 | 7.04 | 5.87 | 4.95 | 4.21 | 3.61 | 3.12 | 2.71 | 2.37 | 2.09 | 1.85 | 1.64 | 1.47 | 1.31 | 1.18 | 1.07 |
| | | L/300 | 19.23 | 14.45 | 11.13 | 8.75 | 7.01 | 5.70 | 4.70 | 3.91 | 3.30 | 2.80 | 2.40 | 2.08 | 1.81 | 1.58 | 1.39 | 1.23 | 1.09 | 0.98 | 0.88 | 0.79 | 0.71 |
| 1.50 | 255.12 255.12 | SGN | 27.30 | 23.52 | 20.48 | 17.63 | 15.31 | 13.44 | 11.87 | 10.56 | 9.45 | 8.51 | 7.70 | 7.00 | 6.39 | 5.87 | 5.39 | 4.97 | 4.60 | 4.27 | 3.97 | 3.70 | 3.46 |
| | | L/150 | 27.30 | 23.52 | 20.48 | 17.63 | 15.31 | 13.44 | 11.27 | 9.40 | 7.92 | 6.73 | 5.77 | 4.98 | 4.34 | 3.79 | 3.34 | 2.95 | 2.63 | 2.35 | 2.10 | 1.89 | 1.71 |
| | | L/200 | 27.30 | 23.52 | 20.04 | 15.76 | 12.62 | 10.26 | 8.45 | 7.05 | 5.94 | 5.05 | 4.33 | 3.74 | 3.25 | 2.85 | 2.50 | 2.22 | 1.97 | 1.76 | 1.58 | 1.42 | 1.28 |
| | | L/300 | 23.08 | 17.34 | 13.36 | 10.51 | 8.41 | 6.84 | 5.63 | 4.70 | 3.96 | 3.37 | 2.89 | 2.49 | 2.17 | 1.90 | 1.67 | 1.48 | 1.31 | 1.17 | 1.05 | 0.95 | 0.85 |

BELKA TRÓJPRZĘŚŁOWA

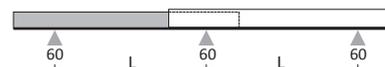
POZYTYW



| Gru- bość | Jx [cm ⁴] | Przypa- dek | Dopuszczalne obciążenia ciągłe równomiernie rozłożone w kN/m ² przy rozpiętości L(m) | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------------|----------------|---|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.25 | 4.50 | 4.75 | 5.00 | 5.25 | 5.50 | 5.75 | 6.00 | 6.25 | 6.50 | 6.75 | 7.00 | 7.25 | 7.50 |
| 0.70 | min/max 112.34 119.05 | SGN | 5.94 | 5.40 | 4.95 | 4.57 | 4.24 | 3.96 | 3.71 | 3.50 | 3.30 | 3.13 | 2.97 | 2.83 | 2.70 | 2.47 | 2.27 | 2.09 | 1.93 | 1.79 | 1.67 | 1.55 | 1.45 |
| | | L/150 | 5.94 | 5.40 | 4.95 | 4.57 | 4.24 | 3.96 | 3.68 | 3.11 | 2.64 | 2.26 | 1.95 | 1.69 | 1.47 | 1.29 | 1.14 | 1.01 | 0.90 | 0.80 | 0.72 | 0.65 | 0.59 |
| | | L/200 | 5.94 | 5.40 | 4.95 | 4.57 | 4.12 | 3.41 | 2.83 | 2.37 | 2.01 | 1.72 | 1.48 | 1.28 | 1.12 | 0.98 | 0.87 | 0.77 | 0.68 | 0.61 | 0.55 | 0.49 | 0.44 |
| | | L/300 | 5.94 | 5.40 | 4.42 | 3.51 | 2.84 | 2.32 | 1.93 | 1.61 | 1.37 | 1.17 | 1.00 | 0.86 | 0.75 | 0.66 | 0.58 | 0.51 | 0.45 | 0.41 | 0.36 | 0.33 | 0.30 |
| 0.75 | 122.31 127.56 | SGN | 6.84 | 6.22 | 5.70 | 5.26 | 4.88 | 4.56 | 4.27 | 4.02 | 3.80 | 3.60 | 3.42 | 3.23 | 2.94 | 2.69 | 2.47 | 2.28 | 2.11 | 1.95 | 1.82 | 1.69 | 1.58 |
| | | L/150 | 6.84 | 6.22 | 5.70 | 5.26 | 4.88 | 4.56 | 4.01 | 3.39 | 2.87 | 2.46 | 2.11 | 1.83 | 1.60 | 1.40 | 1.23 | 1.09 | 0.97 | 0.87 | 0.78 | 0.70 | 0.63 |
| | | L/200 | 6.84 | 6.22 | 5.70 | 5.26 | 4.52 | 3.70 | 3.07 | 2.58 | 2.19 | 1.87 | 1.61 | 1.39 | 1.21 | 1.06 | 0.93 | 0.82 | 0.73 | 0.65 | 0.59 | 0.53 | 0.48 |
| | | L/300 | 6.84 | 6.14 | 4.81 | 3.82 | 3.08 | 2.52 | 2.09 | 1.74 | 1.47 | 1.25 | 1.07 | 0.92 | 0.80 | 0.70 | 0.62 | 0.55 | 0.49 | 0.44 | 0.39 | 0.35 | 0.32 |
| 0.80 | 132.30 136.06 | SGN | 7.79 | 7.08 | 6.49 | 5.99 | 5.56 | 5.19 | 4.87 | 4.58 | 4.33 | 4.10 | 3.87 | 3.51 | 3.19 | 2.92 | 2.68 | 2.47 | 2.29 | 2.12 | 1.97 | 1.84 | 1.72 |
| | | L/150 | 7.79 | 7.08 | 6.49 | 5.99 | 5.56 | 5.19 | 4.36 | 3.66 | 3.10 | 2.65 | 2.28 | 1.97 | 1.72 | 1.50 | 1.32 | 1.17 | 1.04 | 0.93 | 0.83 | 0.75 | 0.68 |
| | | L/200 | 7.79 | 7.08 | 6.49 | 5.99 | 4.89 | 4.00 | 3.32 | 2.79 | 2.35 | 2.00 | 1.71 | 1.48 | 1.29 | 1.13 | 0.99 | 0.88 | 0.78 | 0.70 | 0.62 | 0.56 | 0.51 |
| | | L/300 | 7.79 | 6.64 | 5.20 | 4.13 | 3.33 | 2.71 | 2.23 | 1.86 | 1.57 | 1.33 | 1.14 | 0.99 | 0.86 | 0.75 | 0.66 | 0.58 | 0.52 | 0.46 | 0.42 | 0.37 | 0.34 |
| 0.88 | 147.07 149.67 | SGN | 9.43 | 8.58 | 7.86 | 7.26 | 6.74 | 6.29 | 5.90 | 5.55 | 5.24 | 4.84 | 4.36 | 3.96 | 3.61 | 3.30 | 3.03 | 2.79 | 2.58 | 2.39 | 2.23 | 2.08 | 1.94 |
| | | L/150 | 9.43 | 8.58 | 7.86 | 7.26 | 6.74 | 5.88 | 4.89 | 4.09 | 3.45 | 2.93 | 2.51 | 2.17 | 1.89 | 1.65 | 1.45 | 1.29 | 1.14 | 1.02 | 0.92 | 0.82 | 0.74 |
| | | L/200 | 9.43 | 8.58 | 7.86 | 6.79 | 5.48 | 4.47 | 3.68 | 3.07 | 2.58 | 2.20 | 1.88 | 1.63 | 1.42 | 1.24 | 1.09 | 0.96 | 0.86 | 0.77 | 0.69 | 0.62 | 0.56 |
| | | L/300 | 9.43 | 7.50 | 5.81 | 4.57 | 3.66 | 2.98 | 2.45 | 2.05 | 1.72 | 1.46 | 1.26 | 1.08 | 0.94 | 0.83 | 0.73 | 0.64 | 0.57 | 0.51 | 0.46 | 0.41 | 0.37 |
| 1.00 | 170.08 170.08 | SGN | 12.17 | 11.06 | 10.14 | 9.36 | 8.69 | 8.11 | 7.61 | 7.10 | 6.33 | 5.68 | 5.13 | 4.65 | 4.24 | 3.88 | 3.56 | 3.28 | 3.03 | 2.81 | 2.62 | 2.44 | 2.28 |
| | | L/150 | 12.17 | 11.06 | 10.14 | 9.36 | 8.32 | 6.77 | 5.58 | 4.65 | 3.92 | 3.33 | 2.85 | 2.47 | 2.14 | 1.88 | 1.65 | 1.46 | 1.30 | 1.16 | 1.04 | 0.94 | 0.85 |
| | | L/200 | 12.17 | 11.06 | 9.90 | 7.80 | 6.24 | 5.07 | 4.18 | 3.49 | 2.94 | 2.50 | 2.14 | 1.85 | 1.61 | 1.41 | 1.24 | 1.10 | 0.97 | 0.87 | 0.78 | 0.70 | 0.63 |
| | | L/300 | 11.42 | 8.58 | 6.61 | 5.20 | 4.16 | 3.38 | 2.79 | 2.32 | 1.96 | 1.66 | 1.43 | 1.23 | 1.07 | 0.94 | 0.83 | 0.73 | 0.65 | 0.58 | 0.52 | 0.47 | 0.42 |
| 1.25 | 212.60 212.60 | SGN | 18.90 | 17.18 | 15.75 | 14.54 | 13.50 | 11.93 | 10.49 | 9.29 | 8.29 | 7.44 | 6.71 | 6.09 | 5.55 | 5.08 | 4.66 | 4.30 | 3.97 | 3.68 | 3.42 | 3.19 | 2.98 |
| | | L/150 | 18.90 | 17.18 | 15.75 | 12.99 | 10.40 | 8.46 | 6.97 | 5.81 | 4.89 | 4.16 | 3.57 | 3.08 | 2.68 | 2.35 | 2.06 | 1.83 | 1.62 | 1.45 | 1.30 | 1.17 | 1.06 |
| | | L/200 | 18.90 | 16.08 | 12.39 | 9.74 | 7.80 | 6.34 | 5.23 | 4.36 | 3.67 | 3.12 | 2.68 | 2.31 | 2.01 | 1.76 | 1.55 | 1.37 | 1.22 | 1.09 | 0.98 | 0.88 | 0.79 |
| | | L/300 | 14.27 | 10.72 | 8.26 | 6.50 | 5.20 | 4.23 | 3.48 | 2.91 | 2.45 | 2.08 | 1.78 | 1.54 | 1.34 | 1.17 | 1.03 | 0.91 | 0.81 | 0.73 | 0.65 | 0.59 | 0.53 |
| 1.50 | 255.12 255.12</ | | | | | | | | | | | | | | | | | | | | | | |

BELKA DWUPRZĘŚŁOWA

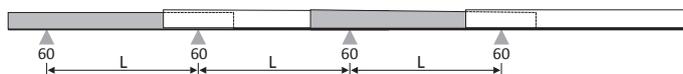
NEGATYW



| Gru- bość | Jx [cm ⁴] | Przypa- dek | Dopuszczalne obciążenia ciągłe równomiernie rozłożone w kN/m ² przy rozpiętości L(m) | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------------|----------------|---|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.25 | 4.50 | 4.75 | 5.00 | 5.25 | 5.50 | 5.75 | 6.00 | 6.25 | 6.50 | 6.75 | 7.00 | 7.25 | 7.50 |
| 0.70 | min/max 113.04 119.05 | SGN | 5.49 | 4.99 | 4.58 | 4.22 | 3.92 | 3.66 | 3.43 | 3.23 | 3.05 | 2.89 | 2.75 | 2.61 | 2.43 | 2.26 | 2.10 | 1.94 | 1.79 | 1.66 | 1.55 | 1.45 | 1.35 |
| | | L/150 | 5.49 | 4.99 | 4.58 | 4.22 | 3.92 | 3.66 | 3.43 | 3.23 | 3.05 | 2.89 | 2.62 | 2.28 | 1.99 | 1.74 | 1.54 | 1.36 | 1.21 | 1.08 | 0.97 | 0.88 | 0.79 |
| | | L/200 | 5.49 | 4.99 | 4.58 | 4.22 | 3.92 | 3.66 | 3.43 | 3.19 | 2.72 | 2.32 | 2.00 | 1.73 | 1.51 | 1.32 | 1.16 | 1.03 | 0.92 | 0.82 | 0.73 | 0.66 | 0.60 |
| | | L/300 | 5.49 | 4.99 | 4.58 | 4.22 | 3.81 | 3.14 | 2.60 | 2.17 | 1.84 | 1.56 | 1.34 | 1.16 | 1.01 | 0.88 | 0.78 | 0.69 | 0.61 | 0.55 | 0.49 | 0.44 | 0.40 |
| 0.75 | 122.73 127.56 | SGN | 6.41 | 5.82 | 5.34 | 4.93 | 4.58 | 4.27 | 4.00 | 3.77 | 3.56 | 3.37 | 3.17 | 2.92 | 2.71 | 2.50 | 2.30 | 2.12 | 1.96 | 1.82 | 1.69 | 1.58 | 1.48 |
| | | L/150 | 6.41 | 5.82 | 5.34 | 4.93 | 4.58 | 4.27 | 4.00 | 3.77 | 3.56 | 3.28 | 2.84 | 2.46 | 2.14 | 1.88 | 1.65 | 1.46 | 1.30 | 1.16 | 1.05 | 0.94 | 0.85 |
| | | L/200 | 6.41 | 5.82 | 5.34 | 4.93 | 4.58 | 4.27 | 4.00 | 3.47 | 2.93 | 2.50 | 2.15 | 1.86 | 1.62 | 1.42 | 1.25 | 1.10 | 0.98 | 0.88 | 0.79 | 0.71 | 0.64 |
| | | L/300 | 6.41 | 5.82 | 5.34 | 4.93 | 4.14 | 3.38 | 2.80 | 2.34 | 1.97 | 1.68 | 1.44 | 1.25 | 1.08 | 0.95 | 0.83 | 0.74 | 0.66 | 0.59 | 0.53 | 0.47 | 0.43 |
| 0.80 | 131.04 136.06 | SGN | 7.42 | 6.74 | 6.18 | 5.71 | 5.30 | 4.95 | 4.64 | 4.36 | 4.12 | 3.82 | 3.51 | 3.24 | 2.96 | 2.71 | 2.50 | 2.30 | 2.13 | 1.98 | 1.84 | 1.71 | 1.60 |
| | | L/150 | 7.42 | 6.74 | 6.18 | 5.71 | 5.30 | 4.95 | 4.64 | 4.36 | 4.12 | 3.53 | 3.04 | 2.63 | 2.29 | 2.01 | 1.77 | 1.57 | 1.39 | 1.25 | 1.12 | 1.01 | 0.91 |
| | | L/200 | 7.42 | 6.74 | 6.18 | 5.71 | 5.30 | 4.95 | 4.42 | 3.72 | 3.14 | 2.68 | 2.30 | 1.98 | 1.73 | 1.51 | 1.33 | 1.18 | 1.05 | 0.94 | 0.84 | 0.76 | 0.68 |
| | | L/300 | 7.42 | 6.74 | 6.18 | 5.49 | 4.44 | 3.62 | 2.99 | 2.50 | 2.11 | 1.79 | 1.54 | 1.33 | 1.16 | 1.01 | 0.89 | 0.79 | 0.70 | 0.63 | 0.56 | 0.50 | 0.46 |
| 0.88 | 144.96 149.67 | SGN | 9.25 | 8.41 | 7.71 | 7.12 | 6.61 | 6.17 | 5.78 | 5.34 | 4.86 | 4.45 | 4.05 | 3.67 | 3.35 | 3.07 | 2.82 | 2.60 | 2.41 | 2.23 | 2.08 | 1.94 | 1.81 |
| | | L/150 | 9.25 | 8.41 | 7.71 | 7.12 | 6.61 | 6.17 | 5.78 | 5.34 | 4.58 | 3.91 | 3.36 | 2.91 | 2.53 | 2.22 | 1.95 | 1.73 | 1.54 | 1.37 | 1.23 | 1.11 | 1.00 |
| | | L/200 | 9.25 | 8.41 | 7.71 | 7.12 | 6.61 | 5.94 | 4.92 | 4.11 | 3.47 | 2.95 | 2.53 | 2.19 | 1.91 | 1.67 | 1.47 | 1.30 | 1.16 | 1.03 | 0.93 | 0.83 | 0.75 |
| | | L/300 | 9.25 | 8.41 | 7.71 | 6.12 | 4.91 | 4.00 | 3.31 | 2.76 | 2.32 | 1.97 | 1.69 | 1.46 | 1.27 | 1.11 | 0.98 | 0.87 | 0.77 | 0.69 | 0.62 | 0.56 | 0.50 |
| 1.00 | 167.67 170.08 | SGN | 12.56 | 11.42 | 10.47 | 9.66 | 8.97 | 8.08 | 7.27 | 6.57 | 5.87 | 5.27 | 4.76 | 4.33 | 3.94 | 3.61 | 3.32 | 3.06 | 2.83 | 2.63 | 2.44 | 2.28 | 2.13 |
| | | L/150 | 12.56 | 11.42 | 10.47 | 9.66 | 8.97 | 8.08 | 7.27 | 6.21 | 5.24 | 4.47 | 3.83 | 3.31 | 2.88 | 2.53 | 2.23 | 1.97 | 1.75 | 1.56 | 1.40 | 1.26 | 1.14 |
| | | L/200 | 12.56 | 11.42 | 10.47 | 9.66 | 8.35 | 6.81 | 5.62 | 4.69 | 3.96 | 3.37 | 2.89 | 2.49 | 2.17 | 1.90 | 1.67 | 1.48 | 1.31 | 1.17 | 1.05 | 0.95 | 0.85 |
| | | L/300 | 12.56 | 11.42 | 8.87 | 7.00 | 5.61 | 4.56 | 3.76 | 3.13 | 2.64 | 2.24 | 1.92 | 1.66 | 1.45 | 1.26 | 1.11 | 0.98 | 0.88 | 0.78 | 0.70 | 0.63 | 0.57 |
| 1.25 | 210.69 212.60 | SGN | 19.89 | 18.08 | 16.17 | 14.20 | 12.57 | 11.06 | 9.74 | 8.64 | 7.71 | 6.93 | 6.26 | 5.68 | 5.18 | 4.74 | 4.36 | 4.02 | 3.71 | 3.45 | 3.20 | 2.99 | 2.79 |
| | | L/150 | 19.89 | 18.08 | 16.17 | 14.20 | 12.57 | 11.06 | 9.37 | 7.82 | 6.60 | 5.61 | 4.81 | 4.15 | 3.61 | 3.16 | 2.78 | 2.46 | 2.19 | 1.95 | 1.75 | 1.58 | 1.42 |
| | | L/200 | 19.89 | 18.08 | 16.17 | 13.11 | 10.51 | 8.55 | 7.04 | 5.87 | 4.95 | 4.21 | 3.61 | 3.12 | 2.71 | 2.37 | 2.09 | 1.85 | 1.64 | 1.47 | 1.31 | 1.18 | 1.07 |
| | | L/300 | 19.18 | 14.45 | 11.13 | 8.75 | 7.01 | 5.70 | 4.70 | 3.91 | 3.30 | 2.80 | 2.40 | 2.08 | 1.81 | 1.58 | 1.39 | 1.23 | 1.09 | 0.98 | 0.88 | 0.79 | 0.71 |
| 1.50 | 254.92 255.12 | SGN | 28.24 | 24.22 | 21.02 | 18.22 | 15.75 | 13.68 | 11.27 | 9.40 | 7.92 | 6.73 | 5.77 | 4.98 | 4.34 | 3.79 | 3.34 | 2.95 | 2.62 | 2.35 | 2.10 | 1.89 | 1.71 |
| | | L/150 | 28.24 | 24.22 | 21.02 | 18.22 | 15.75 | 13.68 | 11.27 | 9.40 | 7.92 | 6.73 | 5.77 | 4.98 | 4.34 | 3.79 | 3.34 | 2.95 | 2.62 | 2.35 | 2.10 | 1.89 | 1.71 |
| | | L/200 | 28.24 | 24.22 | 20.04 | 15.76 | 12.62 | 10.26 | 8.45 | 7.05 | 5.94 | 5.05 | 4.33 | 3.74 | 3.25 | 2.85 | 2.50 | 2.22 | 1.97 | 1.76 | 1.58 | 1.42 | 1.28 |
| | | L/300 | 23.08 | 17.34 | 13.36 | 10.51 | 8.41 | 6.84 | 5.63 | 4.70 | 3.96 | 3.37 | 2.89 | 2.49 | 2.17 | 1.90 | 1.67 | 1.48 | 1.31 | 1.17 | 1.05 | 0.95 | 0.85 |

BELKA TRÓJPRZĘŚŁOWA

NEGATYW

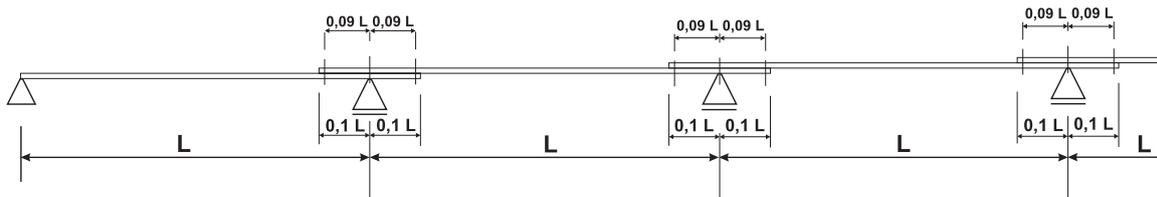


| Gru- bość | Jx [cm ⁴] | Przypa- dek | Dopuszczalne obciążenia ciągłe równomiernie rozłożone w kN/m ² przy rozpiętości L(m) | | | | | | | | | | | | | | | | | | | | |
|--------------|-----------------------------|----------------|---|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 2.50 | 2.75 | 3.00 | 3.25 | 3.50 | 3.75 | 4.00 | 4.25 | 4.50 | 4.75 | 5.00 | 5.25 | 5.50 | 5.75 | 6.00 | 6.25 | 6.50 | 6.75 | 7.00 | 7.25 | 7.50 |
| 0.70 | min/max 113.04 119.05 | SGN | 5.22 | 4.74 | 4.35 | 4.01 | 3.73 | 3.48 | 3.26 | 3.07 | 2.90 | 2.75 | 2.61 | 2.48 | 2.37 | 2.27 | 2.13 | 1.97 | 1.82 | 1.68 | 1.57 | 1.46 | 1.36 |
| | | L/150 | 5.22 | 4.74 | 4.35 | 4.01 | 3.73 | 3.48 | 3.26 | 3.07 | 2.64 | 2.26 | 1.95 | 1.69 | 1.48 | 1.30 | 1.14 | 1.01 | 0.90 | 0.80 | 0.72 | 0.65 | 0.59 |
| | | L/200 | 5.22 | 4.74 | 4.35 | 4.01 | 3.73 | 3.37 | 2.83 | 2.37 | 2.01 | 1.72 | 1.48 | 1.28 | 1.12 | 0.98 | 0.86 | 0.76 | 0.68 | 0.61 | 0.54 | 0.49 | 0.44 |
| | | L/300 | 5.22 | 4.74 | 4.35 | 3.51 | 2.84 | 2.32 | 1.92 | 1.61 | 1.36 | 1.10 | 0.99 | 0.86 | 0.75 | 0.66 | 0.58 | 0.51 | 0.45 | 0.41 | 0.36 | 0.33 | 0.30 |
| 0.75 | 122.73 127.56 | SGN | 6.09 | 5.53 | 5.07 | 4.68 | 4.35 | 4.06 | 3.80 | 3.58 | 3.38 | 3.20 | 3.04 | 2.90 | 2.77 | 2.55 | 2.34 | 2.16 | 2.00 | 1.85 | 1.72 | 1.61 | 1.50 |
| | | L/150 | 6.09 | 5.53 | 5.07 | 4.68 | 4.35 | 4.06 | 3.80 | 3.35 | 2.86 | 2.44 | 2.11 | 1.82 | 1.59 | 1.39 | 1.23 | 1.09 | 0.97 | 0.86 | 0.78 | 0.70 | 0.63 |
| | | L/200 | 6.09 | 5.53 | 5.07 | 4.68 | 4.35 | 3.69 | 3.06 | 2.56 | 2.17 | 1.85 | 1.59 | 1.38 | 1.20 | 1.05 | 0.92 | 0.82 | 0.73 | 0.65 | 0.58 | 0.53 | 0.48 |
| | | L/300 | 6.09 | 5.53 | 4.75 | 3.80 | 3.07 | 2.51 | 2.07 | 1.73 | 1.46 | 1.24 | 1.07 | 0.92 | 0.80 | 0.70 | 0.62 | 0.55 | 0.49 | 0.44 | 0.39 | 0.35 | 0.32 |
| 0.80 | 131.04 136.06 | SGN | 7.05 | 6.41 | 5.87 | 5.42 | 5.03 | 4.70 | 4.41 | 4.15 | 3.92 | 3.71 | 3.52 | 3.34 | 3.05 | 2.79 | 2.56 | 2.36 | 2.18 | 2.02 | 1.88 | 1.75 | 1.64 |
| | | L/150 | 7.05 | 6.41 | 5.87 | 5.42 | 5.03 | 4.70 | 4.29 | 3.63 | 3.07 | 2.63 | 2.26 | 1.95 | 1.70 | 1.49 | 1.31 | 1.16 | 1.03 | 0.92 | 0.83 | 0.75 | 0.67 |
| | | L/200 | 7.05 | 6.41 | 5.87 | 5.42 | 4.81 | 3.97 | 3.29 | 2.75 | 2.33 | 1.98 | 1.70 | 1.47 | 1.28 | 1.12 | 0.99 | 0.88 | 0.78 | 0.70 | 0.62 | 0.56 | 0.51 |
| | | L/300 | 7.05 | 6.41 | 5.15 | 4.09 | 3.29 | 2.68 | 2.22 | 1.85 | 1.56 | 1.33 | 1.14 | 0.99 | 0.86 | 0.75 | 0.66 | 0.58 | 0.52 | 0.46 | 0.42 | 0.37 | 0.34 |
| 0.88 | 144.96 149.67 | SGN | 8.79 | 7.99 | 7.33 | 6.76 | 6.28 | 5.86 | 5.50 | 5.17 | 4.88 | 4.63 | 4.19 | 3.80 | 3.46 | 3.17 | 2.91 | 2.68 | 2.48 | 2.30 | 2.14 | 1.99 | 1.86 |
| | | L/150 | 8.79 | 7.99 | 7.33 | 6.76 | 6.28 | 5.77 | 4.82 | 4.04 | 3.41 | 2.91 | 2.49 | 2.16 | 1.88 | 1.64 | 1.45 | 1.28 | 1.14 | 1.02 | 0.91 | 0.82 | 0.74 |
| | | L/200 | 8.79 | 7.99 | 7.33 | 6.65 | 5.40 | 4.41 | 3.65 | 3.05 | 2.57 | 2.19 | 1.88 | 1.62 | 1.41 | 1.24 | 1.09 | 0.96 | 0.86 | 0.77 | 0.69 | 0.62 | 0.56 |
| | | L/300 | 8.79 | 7.39 | 5.74 | 4.53 | 3.64 | 2.97 | 2.45 | 2.05 | 1.72 | 1.46 | 1.26 | 1.08 | 0.94 | 0.83 | 0.73 | 0.64 | 0.57 | 0.51 | 0.46 | 0.41 | 0.37 |
| 1.00 | 167.67 170.08 | SGN | 11.94 | 10.85 | 9.95 | 9.18 | 8.53 | 7.96 | 7.46 | 6.86 | 6.12 | 5.49 | 4.96 | 4.50 | 4.10 | 3.75 | 3.44 | 3.17 | 2.93 | 2.72 | 2.53 | 2.36 | 2.20 |
| | | L/150 | 11.94 | 10.85 | 9.95 | 9.18 | 8.16 | 6.70 | 5.54 | 4.62 | 3.90 | 3.31 | 2.84 | 2.46 | 2.14 | 1.88 | 1.65 | 1.46 | 1.30 | 1.16 | 1.04 | 0.94 | 0.85 |
| | | L/200 | 11.94 | 10.85 | 9.70 | 7.72 | 6.20 | 5.05 | 4.17 | 3.48 | 2.94 | 2.50 | 2.14 | 1.85 | 1.61 | 1.41 | 1.24 | 1.10 | 0.97 | 0.87 | 0.78 | 0.70 | 0.63 |
| | | L/300 | 11.20 | 8.51 | 6.58 | 5.19 | 4.16 | 3.38 | 2.79 | 2.32 | 1.96 | 1.66 | 1.43 | 1.23 | 1.07 | 0.94 | 0.83 | 0.73 | 0.65 | 0.58 | 0.52 | 0.47 | 0.42 |
| 1.25 | 210.69 212.60 | SGN | 18.90 | 17.18 | 15.75 | 14.54 | 13.46 | 11.73 | 10.31 | 9.13 | 8.14 | 7.31 | 6.60 | 5.98 | 5.45 | 4.99 | 4.58 | 4.22 | 3.90 | 3.62 | 3.37 | 3.14 | 2.93 |
| | | L/150 | 18.90 | 17.18 | 15.75 | 12.94 | 10.37 | 8.44 | 6.97 | 5.81 | 4.89 | 4.16 | 3.57 | 3.08 | 2.68 | 2.35 | 2.06 | 1.83 | 1.62 | 1.45 | 1.30 | 1.17 | 1.06 |
| | | L/200 | 18.90 | 16.00 | 12.36 | 9.74 | 7.80 | 6.34 | 5.23 | 4.36 | 3.67 | 3.12 | 2.68 | 2.31 | 2.01 | 1.76 | 1.55 | 1.37 | 1.22 | 1.09 | 0.98 | 0.88 | 0.79 |
| | | L/300 | 14.25 | 10.72 | 8.26 | 6.50 | 5.20 | 4.23 | 3.48 | 2.91 | 2.45 | 2.08 | 1.78 | 1.54 | 1.34 | 1.17 | 1.03 | 0.91 | 0.81 | 0.73 | 0.65 | 0.59 | 0.53 |
| 1.50 | 254.92 255.12 | SGN | 27.00 | 24.54 | 22.50 | 19.68 | 16.97 | 14.78 | 12.99 | 11.51 | | | | | | | | | | | | | |

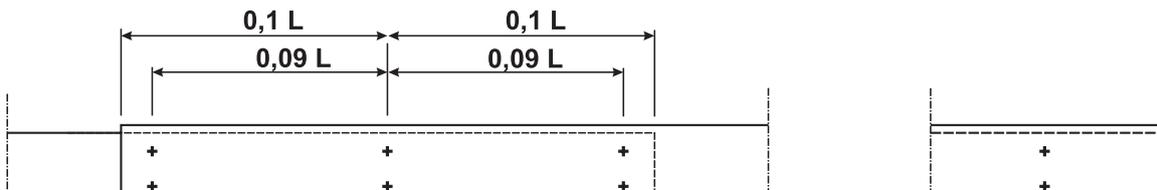
Łącząc blachy trapezowe na zakład możemy znacząco zwiększyć ich nośność, a także wzmocnić miejsca występowania maksymalnych momentów zginających.

Dla blach w układzie zakładkowym przyjęto zakłady o długości 0.1 rozpiętości przęsa wg poniższego szkicu

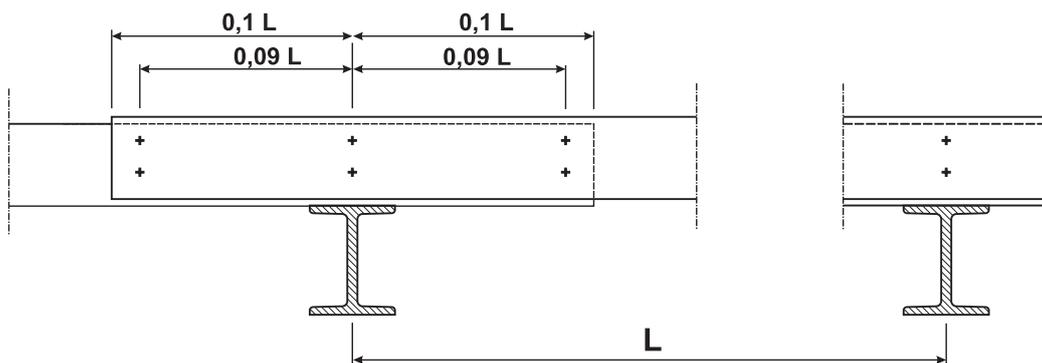
Układ wieloprzęsłowy



Układ dwuprzęsłowy



Rozmieszczenie łączników w zakładach.



Ilość i rodzaj łączników w połączeniu zakładkowym powinien określać projekt. Istnieje możliwość doboru łączników do połączenia zakładkowego w programie do doboru blach trapezowych Pruszyński BP wersji 6.0 i wyższej.