# Hot-rolled sheet pile sections

## Overview: U-Sections

| | Elastic section modulus | Plastic section modulus | Weight | Weight | Moment of inertia | Flange thickness | Web thickness | Height | Section width | Classification to DIN EN 1993-5 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | $W_y$ | $W_{y,pl}$ | | Single pile | $I_y$ | t | s | h | b | | | |
| | cm³/m | cm³/m | kg/m² | kg/m | cm⁴/m | mm | mm | mm | mm | S 270 GP | S 355 GP | S 430 GP |
| tkL 601 | 744 | 895 | 77.2 | 46.3 | 11,530 | 7.5 | 6.4 | 310.0 | 600 | 2 | 3 | 3 |
| tkL 601 FP | 745 | 906 | 79.0 | 47.4 | 11,547 | 7.2 | 7.0 | 310.0 | 600 | 3 | 3 | 3 |
| tkL 601 K | 775 | 936 | 80.8 | 48.5 | 12,019 | 7.8 | 6.8 | 310.0 | 600 | 2 | 3 | 3 |
| tkL 602 A | 806 | 979 | 85.5 | 51.3 | 12,499 | 8.0 | 7.3 | 310.0 | 600 | 2 | 3 | 3 |
| tkL 602 | 842 | 1022 | 89.0 | 53.4 | 13,046 | 8.4 | 7.6 | 310.0 | 600 | 2 | 3 | 3 |
| tkL 602 K | 877 | 1,065 | 92.3 | 55.4 | 13,590 | 8.8 | 7.9 | 310.0 | 600 | 2 | 2 | 3 |
| tkL 603 A | 1,138 | 1,316 | 102.5 | 61.5 | 18,205 | 9.0 | 8.0 | 320.0 | 600 | 3 | 4 | 4 |
| tkL 603 | 1,200 | 1,386 | 107.0 | 64.2 | 19,199 | 9.6 | 8.2 | 320.0 | 600 | 3 | 3 | 4 |
| tkL 603 KN | 1,230 | 1,427 | 111.5 | 66.9 | 19,682 | 9.8 | 8.6 | 320.0 | 600 | 3 | 3 | 4 |
| tkL 603 K | 1,241 | 1,444 | 113.0 | 67.8 | 19,853 | 9.8 | 9.0 | 320.0 | 600 | 3 | 3 | 4 |
| tkL 603 N | 1,273 | 1,519 | 105.7 | 63.4 | 24,269 | 9.8 | 7.9 | 381.2 | 600 | 2 | 2 | 3 |
| tkL 603 Z | 1,300 | 1,525 | 120.2 | 72.1 | 20,930 | 10.0 | 10.0 | 322.0 | 600 | 3 | 3 | 4 |
| tkL 603 Z11 | 1,404 | 1,653 | 131.0 | 78.6 | 22,470 | 11.0 | 11.0 | 320.0 | 600 | 2 | 3 | 3 |
| tkL 604 A | 1,564 | 1,823 | 118.3 | 71.0 | 30,495 | 9.6 | 8.8 | 390.0 | 600 | 3 | 3 | 4 |
| tkL 604 | 1,618 | 1,885 | 121.8 | 73.1 | 31,548 | 10.0 | 9.0 | 390.0 | 600 | 3 | 3 | 4 |
| tkL 604 K | 1,672 | 1,947 | 125.3 | 75.2 | 32,600 | 10.4 | 9.2 | 390.0 | 600 | 3 | 3 | 3 |
| tkL 605 A | 1,821 | 2,125 | 127.5 | 76.5 | 38,243 | 10.7 | 9.0 | 420.0 | 600 | 2 | 3 | 3 |
| tkL 605 N | 2,019 | 2,348 | 136.9 | 82.1 | 42,664 | 12.0 | 9.5 | 422.6 | 600 | 2 | 2 | 3 |
| tkL 606 A | 2,205 | 2,541 | 142.3 | 85.4 | 47,402 | 13.4 | 9.0 | 430.0 | 600 | 2 | 2 | 2 |
| tkL 606 AN | 2,355 | 2,714 | 149.6 | 89.8 | 50,878 | 14.4 | 9.4 | 432.0 | 600 | 2 | 2 | 2 |
| tkL 606 N | 2,506 | 2,887 | 156.8 | 94.1 | 54,389 | 15.4 | 9.8 | 434.0 | 600 | 2 | 2 | 2 |
| tkL 628 -1,5 | 2,607 | 3,006 | 158.6 | 95.2 | 58,938 | 14.8 | 9.5 | 452.1 | 600 | 2 | 2 | 2 |
| tkL 628 AN | 2,701 | 3,114 | 163.1 | 97.9 | 61,219 | 15.4 | 9.8 | 453.3 | 600 | 2 | 2 | 2 |
| tkL 628 A | 2,809 | 3,238 | 168.0 | 100.8 | 63,856 | 16.1 | 10.0 | 454.7 | 600 | 2 | 2 | 2 |
| tkL 628 | 2,841 | 3,276 | 169.6 | 101.8 | 64,640 | 16.3 | 10.1 | 455.1 | 600 | 2 | 2 | 2 |
| tkL 628 K | 2,903 | 3,347 | 172.5 | 103.5 | 66,165 | 16.7 | 10.3 | 455.9 | 600 | 2 | 2 | 2 |
| tkL 607 A | 3,006 | 3,460 | 177.1 | 106.2 | 68,232 | 17.7 | 10.0 | 453.9 | 600 | 2 | 2 | 2 |
| tkL 607 | 3,211 | 3,701 | 187.3 | 112.4 | 73,300 | 19.0 | 10.6 | 456.5 | 600 | 2 | 2 | 2 |
| tkL 607 K | 3,365 | 3,882 | 194.7 | 116.8 | 77,153 | 20.0 | 11.0 | 458.5 | 600 | 2 | 2 | 2 |

# Overview: Special sections *

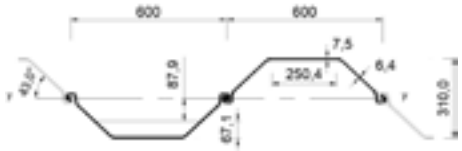
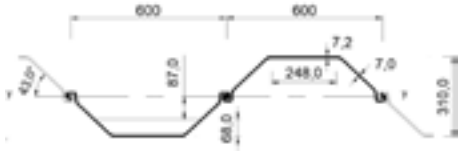
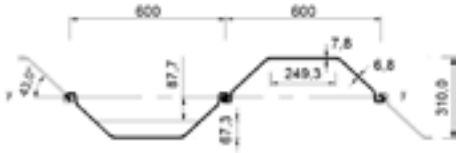
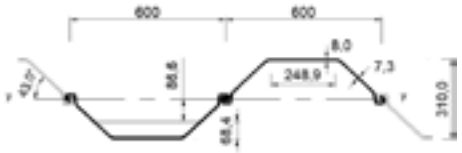
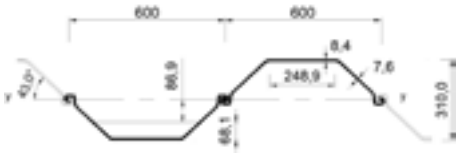
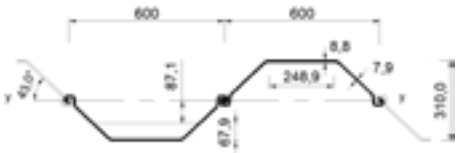
| Profile | Elastic section modulus Wy cm³/m | Plastic section modulus Wy,pl cm³/m | Weight kg/m² | Weight Single pile kg/m | Moment of inertia Iy cm⁴/m | Flange thickness t mm | Web thickness s mm | Height h mm | Section width b mm | Classification to DIN EN 1993-5 S 270 GP | S 355 GP | S 430 GP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| tkL 602 A8 | 831 | 1,016 | 89.5 | 53.7 | 12,843 | 8.0 | 8.0 | 309.2 | 600 | 2 | 3 | 3 |
| tkL 602 90 | 854 | 1,038 | 90.0 | 54.0 | 13,241 | 8.5 | 7.7 | 310.2 | 600 | 2 | 2 | 3 |
| tkL 602 D | 881 | 1,071 | 92.9 | 55.7 | 13,650 | 8.8 | 8.0 | 310.0 | 600 | 2 | 2 | 3 |
| tkL 602 +0,5 | 894 | 1,087 | 93.3 | 56.0 | 13,905 | 8.9 | 8.1 | 311.0 | 600 | 2 | 2 | 3 |
| tkL 602 +0,7 | 907 | 1,101 | 94.0 | 56.4 | 14,128 | 9.1 | 8.1 | 311.4 | 600 | 2 | 2 | 3 |
| tkL 603 AN | 1,161 | 1,342 | 104.0 | 62.4 | 18,601 | 9.2 | 8.1 | 320.4 | 600 | 3 | 4 | 4 |
| tkL 603 108 | 1,215 | 1,404 | 108.0 | 64.8 | 19,456 | 9.7 | 8.3 | 320.2 | 600 | 3 | 3 | 4 |
| tkL 603 K10 | 1,261 | 1,465 | 114.1 | 68.4 | 20,196 | 10.0 | 9.0 | 320.4 | 600 | 3 | 3 | 4 |
| tkL 604 AN | 1,409 | 1,637 | 107.1 | 64.3 | 27,478 | 8.7 | 7.7 | 390.0 | 600 | 3 | 4 | 4 |
| tkL 604 124 | 1,659 | 1,932 | 124.0 | 74.4 | 32,407 | 10.3 | 9.1 | 390.6 | 600 | 3 | 3 | 3 |
| tkL 605 A +0,5 | 1,885 | 2,194 | 130.1 | 78.1 | 39,681 | 11.2 | 9.0 | 421.0 | 600 | 2 | 3 | 3 |
| tkL 605 N 1975 | 1,975 | 2,299 | 134.8 | 80.9 | 41,681 | 11.7 | 9.4 | 422.0 | 600 | 2 | 3 | 3 |
| tkL 605 N 2020 | 2,020 | 2,350 | 137.0 | 82.2 | 42,684 | 12.0 | 9.5 | 422.6 | 600 | 2 | 2 | 3 |
| tkL 605 N 138,5 | 2,050 | 2,384 | 138.5 | 83.1 | 43,362 | 12.2 | 9.6 | 423.0 | 600 | 2 | 2 | 3 |
| tkL 605 N 139,2 | 2,065 | 2,401 | 139.2 | 83.5 | 43,699 | 12.3 | 9.6 | 423.2 | 600 | 2 | 2 | 3 |
| tkL 605 K | 2,068 | 2,414 | 142.9 | 85.7 | 43,434 | 12.4 | 10.0 | 420.0 | 600 | 2 | 2 | 3 |
| tkL 605 N +0,5 | 2,094 | 2,433 | 140.5 | 84.3 | 44,350 | 12.5 | 9.7 | 423.6 | 600 | 2 | 2 | 3 |
| tkL 606 AS +0,5 | 2,228 | 2,578 | 144.9 | 87.0 | 47,898 | 13.4 | 9.5 | 430.0 | 600 | 2 | 2 | 2 |
| tkL 606 A +0,5 | 2,269 | 2,611 | 144.9 | 86.9 | 48,893 | 13.9 | 9.0 | 431.0 | 600 | 2 | 2 | 2 |
| tkL 606 AN 10 | 2,402 | 2,778 | 153.4 | 92.0 | 51,913 | 14.5 | 10.0 | 432.2 | 600 | 2 | 2 | 2 |
| tkL 606 N 157 | 2,517 | 2,897 | 157.0 | 94.3 | 54,645 | 15.5 | 9.8 | 434.2 | 600 | 2 | 2 | 2 |
| tkL 504 A | 1,423 | 1,677 | 127.0 | 63.5 | 24,198 | 11.2 | 8.7 | 340.0 | 500 | 2 | 2 | 2 |
| tkL 504 | 1,504 | 1,771 | 133.2 | 66.6 | 25,575 | 12.0 | 9.0 | 340.0 | 500 | 2 | 2 | 2 |
| tkL 504 K | 1,602 | 1,885 | 140.6 | 70.3 | 27,233 | 13.0 | 9.3 | 340.0 | 500 | 2 | 2 | 2 |
| tkL 507 A | 2,800 | 3,275 | 184.6 | 92.3 | 61,185 | 17.5 | 10.2 | 437.0 | 500 | 2 | 2 | 2 |
| tkL III n | 1,600 | 1,857 | 155.5 | 62.2 | 23,206 | 13.0 | 9.0 | 290.0 | 400 | 2 | 2 | 2 |

* Only on request

# Details: U-Sections

## Section

S = Single pile
D = Double pile
T = Triple pile

| Profile | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm4 | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 601   | per m wall | 744 | 77.2 | 98.3 | 2.57 | 448 | 11,530 | 10.83 |
| | per S | 221 | 46.3 | 59.0 | 1.60 | | 2,360 | 6.32 |
| | per D | 893 | 92.6 | 118.0 | 3.08 | | 13,836 | 10.83 |
| | per T | 1,044 | 138.9 | 177.0 | 4.56 | | 19,235 | 10.42 |
| tkL 601 FP   | per m wall | 745 | 79.0 | 100.7 | 2.57 | 453 | 11,547 | 10.70 |
| | per S | 223 | 47.4 | 60.4 | 1.60 | | 2,360 | 6.25 |
| | per D | 894 | 94.8 | 120.8 | 3.08 | | 13,857 | 10.70 |
| | per T | 1,047 | 142.3 | 181.2 | 4.56 | | 19,262 | 10.30 |
| tkL 601 K   | per m wall | 775 | 80.8 | 102.9 | 2.57 | 468 | 12,019 | 10.81 |
| | per S | 229 | 48.5 | 61.8 | 1.60 | | 2,457 | 6.31 |
| | per D | 931 | 97.0 | 123.5 | 3.08 | | 14,423 | 10.81 |
| | per T | 1,088 | 145.5 | 185.3 | 4.56 | | 20,050 | 10.40 |
| tkL 602 A   | per m wall | 806 | 85.5 | 109.0 | 2.57 | 490 | 12,499 | 10.71 |
| | per S | 245 | 51.3 | 65.4 | 1.60 | | 2,601 | 6.31 |
| | per D | 968 | 102.6 | 130.7 | 3.08 | | 14,998 | 10.71 |
| | per T | 1,135 | 153.9 | 196.1 | 4.57 | | 20,865 | 10.31 |
| tkL 602   | per m wall | 842 | 89.0 | 113.3 | 2.57 | 511 | 13,046 | 10.73 |
| | per S | 252 | 53.4 | 68.0 | 1.60 | | 2,698 | 6.30 |
| | per D | 1,010 | 106.8 | 136.0 | 3.08 | | 15,655 | 10.73 |
| | per T | 1,184 | 160.2 | 204.0 | 4.57 | | 21,773 | 10.28 |
| tkL 602 K   | per m wall | 877 | 92.3 | 117.7 | 2.57 | 533 | 13,590 | 10.75 |
| | per S | 260 | 55.4 | 70.6 | 1.60 | | 2,797 | 6.29 |
| | per D | 1,052 | 110.8 | 141.2 | 3.08 | | 16,308 | 10.75 |
| | per T | 1,232 | 166.2 | 211.8 | 4.56 | | 22,676 | 10.35 |

1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!!

| | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm⁴ | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 603 A | per m wall | 1,138 | 102.5 | 130.6 | 2.76 | 658 | 18,205 | 11.81 |
| | per S | 296 | 61.5 | 78.3 | 1.72 | | 3,503 | 6.69 |
| | per D | 1,365 | 123.0 | 156.7 | 3.31 | | 21,846 | 11.81 |
| | per T | 1,574 | 184.5 | 235.0 | 4.90 | | 30,296 | 11.35 |
| tkL 603 | per m wall | 1,200 | 107.0 | 136.3 | 2.76 | 693 | 19,199 | 11.87 |
| | per S | 304 | 64.2 | 81.8 | 1.73 | | 3,641 | 6.67 |
| | per D | 1,440 | 128.4 | 163.6 | 3.31 | | 23,039 | 11.87 |
| | per T | 1,657 | 192.6 | 245.3 | 4.90 | | 31,933 | 11.41 |
| tkL 603 KN | per m wall | 1,230 | 111.5 | 142.0 | 2.77 | 713 | 19,682 | 11.77 |
| | per S | 324 | 66.9 | 85.2 | 1.73 | | 3,856 | 6.73 |
| | per D | 1,476 | 133.7 | 170.4 | 3.32 | | 23,618 | 11.77 |
| | per T | 1,705 | 200.6 | 255.6 | 4.90 | | 32,776 | 11.32 |
| tkL 603 K | per m wall | 1,240 | 113.0 | 143.9 | 2.77 | 722 | 19,853 | 11.74 |
| | per S | 326 | 67.8 | 86.4 | 1.73 | | 3,873 | 6.70 |
| | per D | 1,489 | 135.6 | 172.7 | 3.32 | | 23,824 | 11.74 |
| | per T | 1,720 | 203.4 | 259.1 | 4.90 | | 33,056 | 11.30 |
| tkL 603 N | per m wall | 1,237 | 105.7 | 134.6 | 2.75 | 760 | 24,269 | 13.43 |
| | per S | 375 | 63.4 | 80.8 | 1.70 | | 4,908 | 7.80 |
| | per D | 1,528 | 126.8 | 161.5 | 3.30 | | 29,123 | 12.92 |
| | per T | 1,782 | 190.2 | 242.3 | 4.89 | | 40,467 | 13.43 |
| tkL 603 Z | per m wall | 1,300 | 120.2 | 153.1 | 2.77 | 763 | 20,930 | 11.69 |
| | per S | 350 | 72.1 | 91.9 | 1.73 | | 4,162 | 6.73 |
| | per D | 1,560 | 144.2 | 183.7 | 3.32 | | 25,115 | 11.69 |
| | per T | 1,808 | 216.3 | 275.6 | 4.91 | | 34,874 | 11.25 |
| tkL 603 Z11 | per m wall | 1,404 | 131.0 | 166.9 | 2.77 | 827 | 22,470 | 11.60 |
| | per S | 375 | 78.6 | 100.2 | 1.73 | | 4,472 | 6.68 |
| | per D | 1,685 | 157.2 | 200.3 | 3.32 | | 26,964 | 11.60 |
| | per T | 1,954 | 235.8 | 300.5 | 4.90 | | 37,443 | 11.16 |
| tkL 604 A | per m wall | 1,564 | 118.3 | 150.8 | 2.98 | 912 | 30,495 | 14.22 |
| | per S | 418 | 71.0 | 90.5 | 1.85 | | 5,834 | 8.03 |
| | per D | 1,877 | 142.0 | 181.0 | 3.58 | | 36,594 | 14.22 |
| | per T | 2,167 | 213.0 | 271.5 | 5.31 | | 50,737 | 13.67 |

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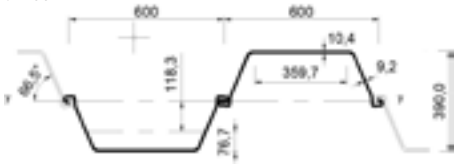
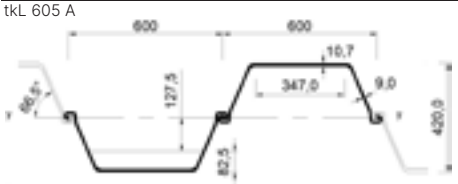
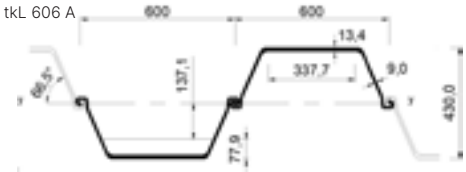
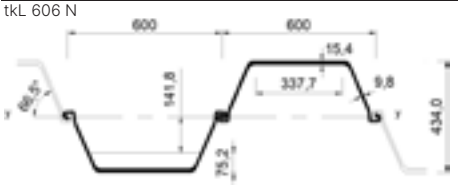
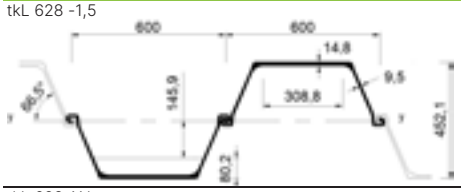
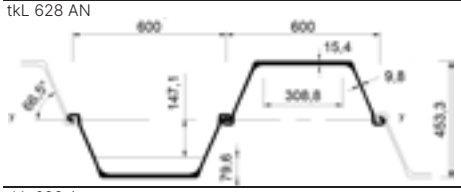
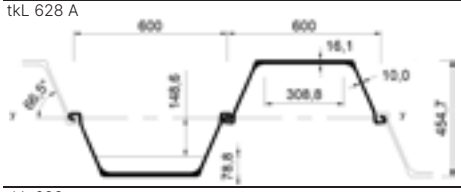
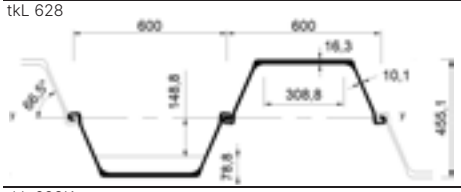
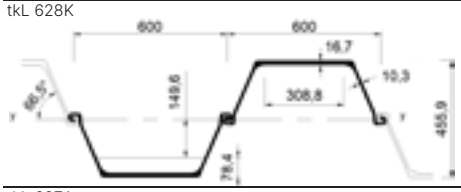
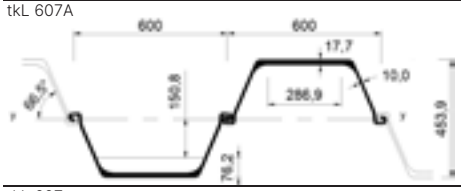
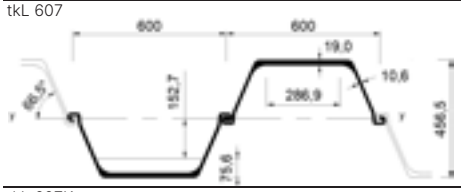
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!

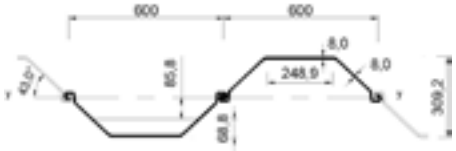
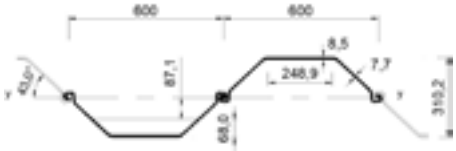
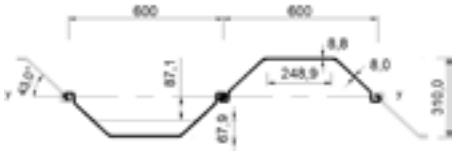
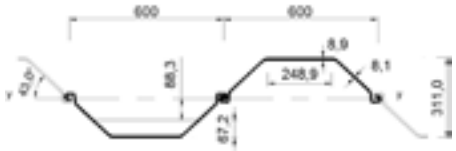
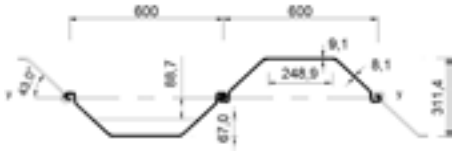
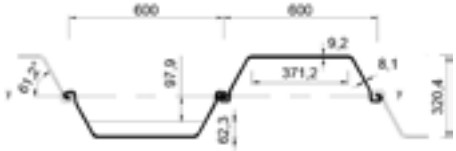
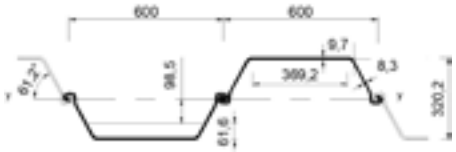
| | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm⁴ | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 604 | per m wall | 1,618 | 121.8 | 155.2 | 2.97 | 943 | 31,548 | 14.26 |
| | per S | 426 | 73.1 | 93.1 | 1.85 | | 5,984 | 8.02 |
| | per D | 1941 | 146.2 | 186.2 | 3.56 | | 37,857 | 14.26 |
| | per T | 2,240 | 219.3 | 279.4 | 5.27 | | 52,471 | 13.70 |
| tkL 604 K  | per m wall | 1,672 | 125.3 | 159.7 | 2.97 | 974 | 32,600 | 14.29 |
| | per S | 435 | 75.2 | 95.8 | 1.85 | | 6,140 | 8.00 |
| | per D | 2,006 | 150.4 | 191.7 | 3.56 | | 39,121 | 14.29 |
| | per T | 2,312 | 225.6 | 287.5 | 5.27 | | 54,207 | 13.73 |
| tkL 605 A  | per m wall | 1,821 | 127.5 | 162.5 | 3.03 | 1,063 | 38,243 | 15.34 |
| | per S | 475 | 76.5 | 97.5 | 1.89 | | 7,113 | 8.54 |
| | per D | 2,185 | 153.0 | 194.9 | 3.64 | | 45,892 | 15.34 |
| | per T | 2,517 | 229.5 | 292.4 | 5.39 | | 63,560 | 14.74 |
| tkL 605 N | per m wall | 2,019 | 136.9 | 174.4 | 3.02 | 1,174 | 42,664 | 15.64 |
| | per S | 486 | 82.1 | 104.6 | 1.88 | | 7,488 | 8.46 |
| | per D | 2,423 | 164.2 | 209.2 | 3.62 | | 51,197 | 15.64 |
| | per T | 2,773 | 264.4 | 313.8 | 5.36 | | 70,759 | 15.02 |
| tkL 606 A  | per m wall | 2,205 | 142.3 | 181.3 | 3.04 | 1,271 | 47,402 | 16.17 |
| | per S | 500 | 85.4 | 108.8 | 1.90 | | 7,981 | 8.56 |
| | per D | 2,646 | 170.8 | 217.6 | 3.65 | | 56,883 | 16.17 |
| | per T | 3,011 | 256.2 | 326.4 | 5.41 | | 78,504 | 15.51 |
| tkL 606 AN | per m wall | 2,355 | 149.6 | 190.6 | 3.04 | 1,357 | 50,878 | 16.33 |
| | per S | 512 | 89.8 | 114.4 | 1.89 | | 8,281 | 8.51 |
| | per D | 2,827 | 179.6 | 228.8 | 3.65 | | 61,056 | 16.33 |
| | per T | 3,207 | 269.5 | 343.3 | 5.40 | | 84,168 | 15.66 |
| tkL 606 N  | per m wall | 2,506 | 156.8 | 199.8 | 3.03 | 1,443 | 54,389 | 16.50 |
| | per S | 520 | 94.1 | 119.9 | 1.89 | | 8,545 | 8.44 |
| | per D | 3,008 | 188.2 | 239.7 | 3.65 | | 65,266 | 16.50 |
| | per T | 3,401 | 282.3 | 359.6 | 5.40 | | 89,870 | 15.81 |

1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!

| | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm⁴ | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 628 -1,5  | per m wall | 2,607 | 158.6 | 202.0 | 3.05 | 1,503 | 58,938 | 17.08 |
| | per S | 567 | 95.2 | 121.2 | 1.88 | | 9,560 | 8.88 |
| | per D | 3,129 | 190.3 | 242.4 | 3.66 | | 70,725 | 17.08 |
| | per T | 3,549 | 285.5 | 363.6 | 5.44 | | 97,487 | 16.37 |
| tkL 628 AN  | per m wall | 2,701 | 163.1 | 207.8 | 3.05 | 1,557 | 61,219 | 17.17 |
| | per S | 575 | 97.9 | 124.7 | 1.88 | | 9,763 | 8.85 |
| | per D | 3,241 | 195.7 | 249.3 | 3.66 | | 73,462 | 17.17 |
| | per T | 3,671 | 293.6 | 374.0 | 5.44 | | 101,204 | 16.45 |
| tkL 628 A  | per m wall | 2,809 | 168.0 | 214.0 | 3.05 | 1,619 | 63,856 | 17.27 |
| | per S | 582 | 100.0 | 128.4 | 1.88 | | 9,973 | 8.81 |
| | per D | 3,370 | 201.6 | 256.8 | 3.66 | | 76,627 | 17.29 |
| | per T | 3,810 | 302.4 | 385.2 | 5.44 | | 105,494 | 16.55 |
| tkL 628  | per m wall | 2,841 | 169.6 | 216.1 | 3.05 | 1,638 | 64,640 | 17.29 |
| | per S | 586 | 101.8 | 129.7 | 1.88 | | 10,053 | 8.81 |
| | per D | 3,409 | 203.6 | 259.3 | 3.66 | | 77,568 | 17.29 |
| | per T | 3,852 | 305.4 | 389.0 | 5.44 | | 106,775 | 16.57 |
| tkL 628K  | per m wall | 2,903 | 172.5 | 219.8 | 3.05 | 1,674 | 66,165 | 17.35 |
| | per S | 590 | 103.5 | 131.9 | 1.88 | | 10,173 | 8.78 |
| | per D | 3,483 | 207.0 | 263.7 | 3.66 | | 79,398 | 17.35 |
| | per T | 3,932 | 310.5 | 395.6 | 5.44 | | 109,205 | 16.62 |
| tkL 607A  | per m wall | 3,006 | 177.1 | 225.6 | 3.13 | 1,730 | 68,232 | 17.39 |
| | per S | 586 | 106.2 | 135.3 | 1.95 | | 10,164 | 8.67 |
| | per D | 3,608 | 212.5 | 270.7 | 3.75 | | 81,879 | 17.39 |
| | per T | 4,060 | 318.7 | 406.0 | 5.54 | | 112,560 | 16.65 |
| tkL 607  | per m wall | 3,211 | 187.3 | 238.6 | 3.13 | 1,851 | 73,300 | 17.53 |
| | per S | 605 | 112.4 | 143.2 | 1.95 | | 10,617 | 8.61 |
| | per D | 3,854 | 224.8 | 286.3 | 3.75 | | 87,960 | 17.53 |
| | per T | 4,328 | 337.1 | 429.5 | 5.54 | | 120,819 | 16.77 |
| tkL 607K | per m wall | 3,365 | 194.7 | 248.0 | 3.13 | 1,941 | 77,153 | 17.64 |
| | per S | 617 | 116.8 | 148.8 | 1.95 | | 10,920 | 8.57 |
| | per D | 4,038 | 233.6 | 297.5 | 3.75 | | 92,583 | 17.64 |
| | per T | 4,528 | 350.4 | 446.3 | 5.54 | | 127,084 | 16.87 |

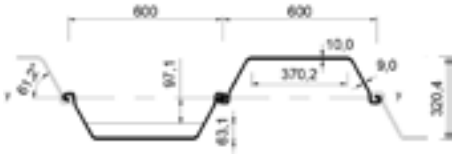
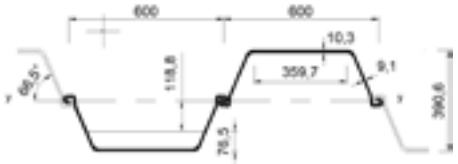
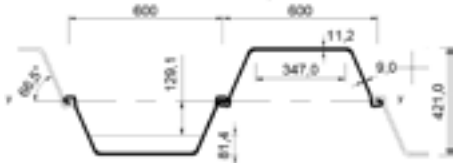
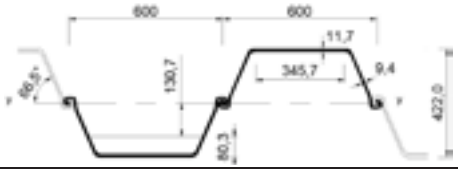
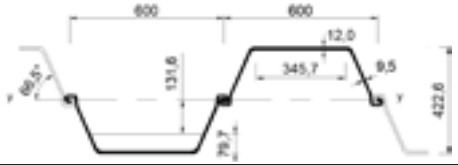
1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!

# Details: Special sections *

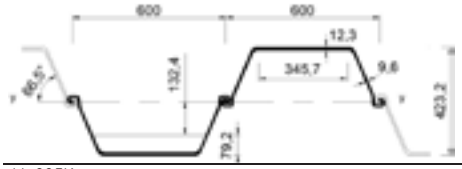
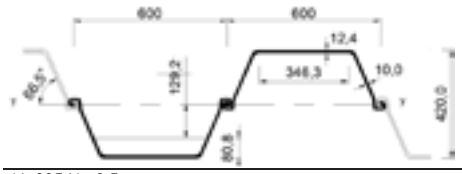
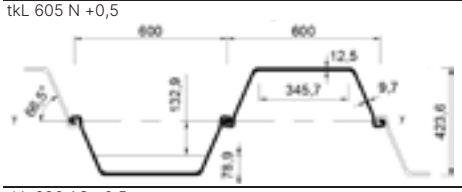
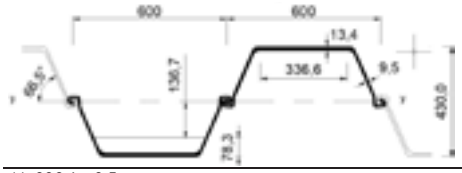
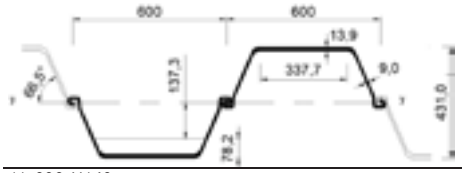
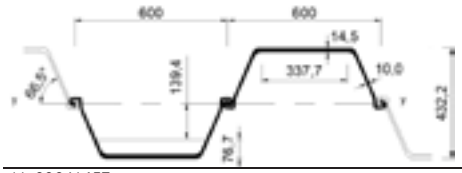
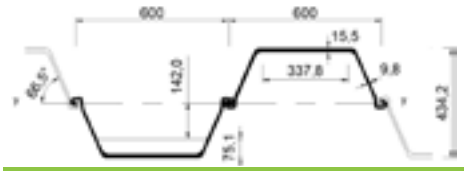
| | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm⁴ | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 602A8  | per m wall | 831 | 89.5 | 114.0 | 2.57 | 508 | 12,843 | 10.61 |
| | per S | 252 | 53.7 | 68.4 | 1.60 | | 2,668 | 6.25 |
| | per D | 997 | 107.4 | 136.8 | 3.08 | | 15,411 | 10.61 |
| | per T | 1,170 | 161.1 | 205.2 | 4.56 | | 21,438 | 10.22 |
| tkL 602 90  | per m wall | 854 | 90.0 | 114.7 | 2.57 | 519 | 13,241 | 10.74 |
| | per S | 253 | 54.0 | 68.8 | 1.60 | | 2,720 | 6.29 |
| | per D | 1,024 | 108.1 | 137.6 | 3.08 | | 15,890 | 10.74 |
| | per T | 1,200 | 162.1 | 206.5 | 4.57 | | 22,093 | 10.34 |
| tkL 602D  | per m wall | 881 | 92.9 | 118.3 | 2.57 | 536 | 13,650 | 10.74 |
| | per S | 260 | 55.7 | 71.0 | 1.60 | | 2,802 | 6.28 |
| | per D | 1,057 | 111.4 | 142.0 | 3.08 | | 16,380 | 10.74 |
| | per T | 1,238 | 167.2 | 213.0 | 4.56 | | 22,774 | 10.34 |
| tkL 602 +0,5  | per m wall | 894 | 93.3 | 118.8 | 2.57 | 543 | 13,905 | 10.82 |
| | per S | 257 | 56.0 | 71.3 | 1.60 | | 2,789 | 6.26 |
| | per D | 1,073 | 112.0 | 142.6 | 3.08 | | 16,686 | 10.82 |
| | per T | 1,253 | 168.0 | 213.9 | 4.57 | | 23,178 | 10.41 |
| tkL 602 +0,7  | per m wall | 907 | 94.0 | 119.8 | 2.57 | 551 | 14,128 | 10.86 |
| | per S | 259 | 56.4 | 71.9 | 1.60 | | 2,819 | 6.26 |
| | per D | 1,089 | 112.9 | 143.8 | 3.08 | | 16,954 | 10.86 |
| | per T | 1,271 | 169.3 | 215.7 | 4.56 | | 23,545 | 10.45 |
| tkL 603AN  | per m wall | 1,161 | 104.0 | 132.4 | 2.76 | 671 | 18,601 | 11.85 |
| | per S | 298 | 62.4 | 79.5 | 1.72 | | 3,539 | 6.67 |
| | per D | 1,393 | 124.7 | 158.9 | 3.31 | | 22,321 | 11.85 |
| | per T | 1,604 | 187.1 | 238.4 | 4.90 | | 30,941 | 11.39 |
| tkL 603 108  | per m wall | 1,215 | 108.0 | 137.7 | 2.77 | 702 | 19,456 | 11.89 |
| | per S | 305 | 64.8 | 82.6 | 1.73 | | 3,663 | 6.66 |
| | per D | 1,458 | 129.7 | 165.2 | 3.32 | | 23,347 | 11.89 |
| | per T | 1,677 | 194.5 | 247.8 | 4.90 | | 32,351 | 11.43 |

* Only on request

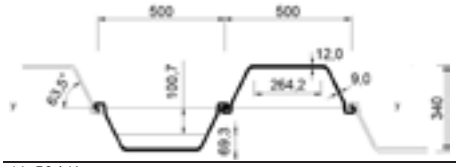
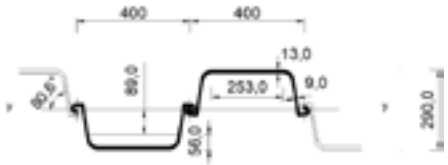
1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!

| | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm⁴ | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 603K10  | per m wall | 1,261 | 114.1 | 145.3 | 2.88 | 732 | 20196 | 11.79 |
| | per S | 327 | 68.4 | 87.2 | 1.73 | | 3905 | 6.69 |
| | per D | 1513 | 136.9 | 174.4 | 3.32 | | 24235 | 11.79 |
| | per T | 1746 | 205.3 | 261.5 | 4.91 | | 33617 | 11.34 |
| tkL 604 AN | per m wall | 1,409 | 107.1 | 136.5 | 2.98 | 819 | 27,478 | 14.19 |
| | per S | 393 | 64.3 | 81.9 | 1.85 | | 5,438 | 8.15 |
| | per D | 1,691 | 128.6 | 163.8 | 3.58 | | 32,973 | 14.19 |
| | per T | 1,959 | 192.8 | 245.7 | 5.31 | | 45,776 | 13.65 |
| tkL 604 124  | per m wall | 1,659 | 124.0 | 158.0 | 2.97 | 966 | 32,407 | 14.32 |
| | per S | 430 | 74.4 | 94.8 | 1.85 | | 6,070 | 8.00 |
| | per D | 1,991 | 148.8 | 189.5 | 3.56 | | 38,888 | 14.32 |
| | per T | 2,294 | 223.2 | 284.3 | 5.27 | | 53,874 | 13.77 |
| tkL 605 A +0,5  | per m wall | 1,885 | 130.1 | 165.7 | 3.03 | 1,097 | 39,681 | 15.47 |
| | per S | 478 | 78.1 | 99.4 | 1.89 | | 7,244 | 8.54 |
| | per D | 2,262 | 156.1 | 198.9 | 3.64 | | 47,618 | 15.47 |
| | per T | 2,600 | 234.2 | 298.3 | 5.39 | | 65,905 | 14.86 |
| tkL 605 N 1975  | per m wall | 1,975 | 134.8 | 171.7 | 3.02 | 1,150 | 41,681 | 15.58 |
| | per S | 483 | 80.9 | 103.0 | 1.88 | | 7,401 | 8.48 |
| | per D | 2,370 | 161.8 | 206.1 | 3.62 | | 50,017 | 15.58 |
| | per T | 2,717 | 242.7 | 309.1 | 5.36 | | 69,157 | 14.96 |
| tkL 605 N 2020  | per m wall | 2,020 | 137.0 | 174.5 | 3.02 | 1,175 | 42,684 | 15.64 |
| | per S | 486 | 82.2 | 104.7 | 1.88 | | 7,491 | 8.46 |
| | per D | 2,424 | 164.4 | 209.4 | 3.62 | | 51,220 | 15.64 |
| | per T | 2,774 | 246.6 | 314.1 | 5.36 | | 70,791 | 15.01 |
| tkL 605N 138,5 | per m wall | 2,050 | 138.5 | 176.4 | 3.02 | 1,192 | 43,362 | 15.68 |
| | per S | 489 | 83.1 | 105.8 | 1.88 | | 7,554 | 8.45 |
| | per D | 2,460 | 166.2 | 211.7 | 3.62 | | 52,034 | 15.68 |
| | per T | 2,814 | 249.2 | 317.5 | 5.36 | | 71,897 | 15.05 |

1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!

| | | Elastic section modulus Wy | Weight | Cross sectional area | Coating area | Static moment Sy | Moment of inertia Iy | Radius of gyration |
|---|---|---|---|---|---|---|---|---|
| | | cm³ | kg/m | cm² | m²/m | cm³ | cm⁴ | cm |
| tkL 605 N 139,2 | per m wall | 2,065 | 139.2 | 177.3 | 3.02 | 1,200 | 43,699 | 15.70 |
|  | per S | 490 | 83.5 | 106.4 | 1.88 | | 7,583 | 8.44 |
| | per D | 2,478 | 167.0 | 212.8 | 3.62 | | 52,439 | 15.70 |
| | per T | 2,833 | 250.5 | 319.2 | 5.36 | | 72,446 | 15.07 |
| tkL 605K | per m wall | 2,068 | 142.9 | 182.0 | 3.03 | 1,207 | 43,434 | 15.45 |
|  | per S | 512 | 85.7 | 109.2 | 1.89 | | 7,821 | 8.46 |
| | per D | 2,482 | 171.4 | 218.4 | 3.64 | | 52,121 | 15.45 |
| | per T | 2,849 | 257.2 | 327.7 | 5.38 | | 72,102 | 14.83 |
| tkL 605 N +0,5 | per m wall | 2,094 | 140.5 | 179.0 | 3.02 | 1,217 | 44,350 | 15.74 |
|  | per S | 491 | 84.3 | 107.4 | 1.88 | | 7,636 | 8.43 |
| | per D | 2,513 | 168.6 | 214.8 | 3.62 | | 53,220 | 15.74 |
| | per T | 2,870 | 252.9 | 322.1 | 5.36 | | 73,504 | 15.11 |
| tkL 606 AS +0,5 | per m wall | 2,228 | 144.9 | 184.6 | 3.04 | 1,289 | 47,898 | 16.11 |
|  | per S | 506 | 87.0 | 110.8 | 1.90 | | 8,048 | 8.52 |
| | per D | 2,673 | 173.9 | 221.5 | 3.65 | | 57,477 | 16.11 |
| | per T | 3,044 | 260.9 | 332.3 | 5.41 | | 79,319 | 15.45 |
| tkL 606 A +0,5 | per m wall | 2,269 | 144.9 | 184.6 | 3.04 | 1,305 | 48,893 | 16.28 |
|  | per S | 503 | 86.9 | 110.7 | 1.90 | | 8,096 | 8.55 |
| | per D | 2,723 | 173.9 | 221.5 | 3.65 | | 58,672 | 16.28 |
| | per T | 3,093 | 260.8 | 332.2 | 5.41 | | 80,930 | 15.61 |
| tkL 606 AN 10 | per m wall | 2,402 | 153.4 | 195.4 | 3.04 | 1,389 | 51,913 | 16.30 |
|  | per S | 517 | 92.0 | 117.2 | 1.89 | | 8,373 | 8.45 |
| | per D | 2,883 | 184.0 | 234.4 | 3.65 | | 62,295 | 16.30 |
| | per T | 3,270 | 276.0 | 351.6 | 5.40 | | 85,852 | 15.63 |
| tkL 606 N 157 | per m wall | 2,517 | 157.0 | 200.1 | 3.04 | 1,449 | 54,645 | 16.53 |
|  | per S | 520 | 94.3 | 120.1 | 1.89 | | 8,560 | 8.44 |
| | per D | 3,020 | 188.5 | 240.1 | 3.65 | | 65,574 | 16.53 |
| | per T | 3,414 | 282.8 | 360.2 | 5.40 | | 90,286 | 15.83 |

1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!

| | | Elastic section modulus Wy cm³ | Weight kg/m | Cross sectional area cm² | Coating area m²/m | Static moment Sy cm³ | Moment of inertia Iy cm⁴ | Radius of gyration cm |
|---|---|---|---|---|---|---|---|---|
| tkL 504A | per m wall | 1,423 | 127.0 | 161.7 | 2.98 | 838 | 24,198 | 12.23 |
| | per S | 329 | 63.5 | 80.9 | 1.56 | | 3,993 | 7.30 |
| | per D | 1,423 | 127.0 | 161.7 | 2.98 | | 24,198 | 12.23 |
| | per T | 1,652 | 190.5 | 242.6 | 4.40 | | 33,596 | 11.77 |
| tkL 504  | per m wall | 1,504 | 133.2 | 169.7 | 2.98 | 886 | 25,575 | 12.28 |
| | per S | 341 | 66.6 | 84.8 | 1.56 | | 4,181 | 7.20 |
| | per D | 1,504 | 133.2 | 169.7 | 2.98 | | 25,575 | 12.28 |
| | per T | 1,744 | 199.8 | 254.5 | 4.40 | | 35,493 | 11.81 |
| tkL 504 K | per m wall | 1,602 | 140.6 | 179.1 | 2.98 | 942 | 27,233 | 12.33 |
| | per S | 355 | 70.3 | 89.6 | 1.56 | | 4,408 | 7.20 |
| | per D | 1,602 | 140.6 | 179.1 | 2.98 | | 27,233 | 12.33 |
| | per T | 1,854 | 210.9 | 268.7 | 4.40 | | 37,780 | 11.86 |
| tkL 507 A | per m wall | 2,800 | 184.6 | 235.2 | 3.32 | 1,638 | 61,185 | 16.13 |
| | per S | 554 | 92.3 | 117.6 | 1.73 | | 8,797 | 8.65 |
| | per D | 2,800 | 184.6 | 235.2 | 3.32 | | 61,185 | 16.13 |
| | per T | 3,203 | 276.9 | 352.8 | 4.91 | | 84,512 | 15.48 |
| tkL IIIn  | per m wall | 1,600 | 155.5 | 198.1 | 3.28. | 928 | 23,206 | 10.82 |
| | per S | 255 | 62.2 | 79.3 | 1.38 | | 2,849 | 5.99 |
| | per D | 1,280 | 124.4 | 158.5 | 2.62 | | 18,565 | 10.82 |
| | per T | 1,469 | 186.6 | 237.8 | 3.88 | | 25,703 | 10.40 |

1. The elastic section modulus of the U-profiles may only be applied in the static calculation if at least every second interlock is crimped and welded to absorb the shear forces
2. Elastic section modulus: for S and T related to the axis of gravity of the respective element, for D and per m wall related to the wall axis y-y
3. The coating surfaces correspond to the surfaces on both sides, without the interlock!!

## Conformity assessments

Certificate of conformity (Ü-Sign, ÜHP);
Proof of conformity for products of the building industry according to regulation Bauregelliste 4