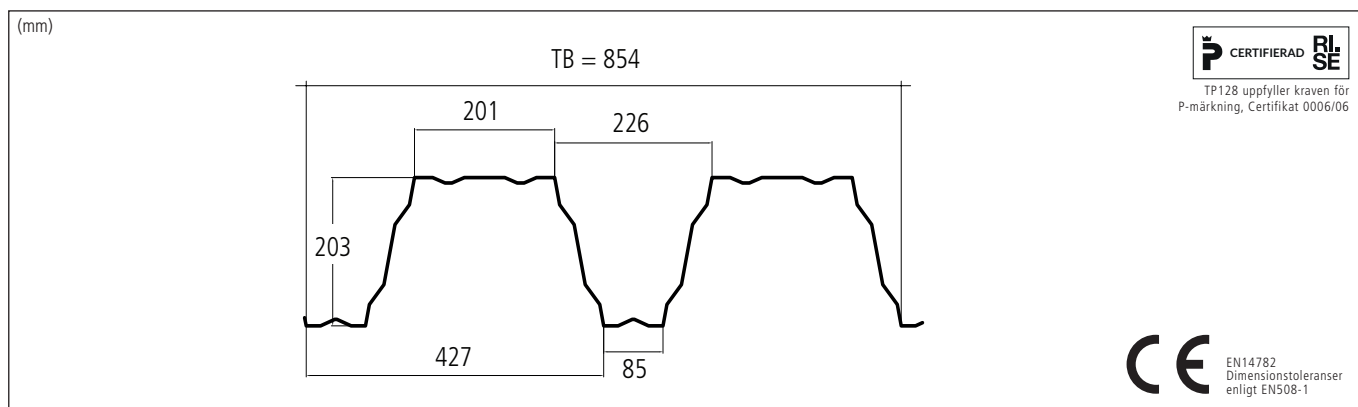




## Tvärsnittsdata - Areco TP200 - 15 - 420 MPa

Tabell 1

| Plåttjocklek, nominell                      | $t_{nom}$ | mm                  | 0,70  | 0,80  | 0,90  | 1,00  | 1,20  | 1,50  |
|---------------------------------------------|-----------|---------------------|-------|-------|-------|-------|-------|-------|
| Plåttjocklek, vid beräkning                 | $t_{ber}$ | mm                  | 0,665 | 0,760 | 0,866 | 0,955 | 1,144 | 1,42  |
| Sträckgräns                                 | $f_{ty}$  | N/mm <sup>2</sup>   | 420   | 420   | 420   | 420   | 420   | 420   |
| Massa                                       | m         | kg/m                | 8,40  | 9,60  | 10,80 | 12,00 | 14,40 | 18,00 |
| Egentyngd inkl. överlapp                    | g         | kN/m <sup>2</sup>   | 0,098 | 0,112 | 0,126 | 0,141 | 0,169 | 0,211 |
| Innerstöd Smal Upplagsreaktion $l_s=100$ mm | $R_d$     | kN/m                | 14,30 | 19,20 | 25,40 | 31,20 | 45,00 | 68,80 |
| Smal fläns Moment                           | $M_d$     | kNm/m               | 18,91 | 23,11 | 27,45 | 31,17 | 39,22 | 52,67 |
| Tryckpåverkad Tröghetsmoment                | $I_{def}$ | mm <sup>4</sup> /mm | 6572  | 7540  | 8614  | 9499  | 11379 | 14125 |
| Innerstöd Bred Upplagsreaktion $l_s=100$ mm | $R_d$     | kN/m                | 14,30 | 18,90 | 24,10 | 29,10 | 41,30 | 64,00 |
| Bred fläns Moment                           | $M_d$     | kNm/m               | 14,79 | 18,41 | 22,75 | 26,02 | 33,11 | 45,94 |
| Tryckpåverkad Tröghetsmoment                | $I_{def}$ | mm <sup>4</sup> /mm | 6225  | 7160  | 8214  | 9107  | 11026 | 13873 |

## Skivverkanskapaciteter - Areco TP200 - 15 - 420 MPa

Tabell 2

| Tjocklek  | Skjuvbuckling |       |              | Ändstöd               |                              |                     |
|-----------|---------------|-------|--------------|-----------------------|------------------------------|---------------------|
|           | Fläns         | Liv   | Globalt      | Böjning vid ramverkan | Upplagsreaktion av skivkraft | Dragkraft i fästdon |
| $t_{nom}$ | $V_f$         | $V_w$ | $L^2 V_{gd}$ | $V_d$                 | $R_v/V$                      | $F_c/2/V$           |
| mm        | kN/m          | kN/m  | kN/m         | kN/m                  |                              | m                   |
| 0,70      | 13,30         | 11,40 | 1508         | 3,00                  | 1,35                         | 287                 |
| 0,80      | 19,10         | 16,40 | 1842         | 3,80                  | 1,35                         | 287                 |
| 0,90      | 27,20         | 23,60 | 2240         | 4,80                  | 1,35                         | 287                 |
| 1,00      | 35,50         | 30,90 | 2594         | 5,70                  | 1,35                         | 287                 |
| 1,20      | 58,20         | 51,10 | 3402         | 7,90                  | 1,35                         | 287                 |
| 1,50      | 105,50        | 93,60 | 4704         | 11,70                 | 1,35                         | 287                 |

# Areco TP200

## TAK Isolrat L/200

### Maximala belastningar i kN/m<sup>2</sup> - 420 MPa

Tabell 3

| Upplagsfall | Tjocklek (mm) | Begränsningar upplag  | Spännvid L (m) |        |        |       |       |       |       |       |       |       |       |       | Lastfall     |
|-------------|---------------|-----------------------|----------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------------|
| ENKELFACK   | 0,70          | Moment (S. fläns)     | 5,20           | 5,60   | 6,00   | 6,40  | 6,80  | 7,20  | 7,60  | 8,00  | 8,40  | 8,80  | 9,20  | 9,60  | <div> </div> |
|             |               | Nedböjning            | 3,978          | 3,43   | 2,988  | 2,626 | 2,326 | 2,075 | 1,862 | 1,681 | 1,525 | 1,389 | 1,271 | 1,167 |              |
|             |               | Moment (B. fläns)     | 3,25           | 2,602  | 2,116  | 1,744 | 1,453 | 1,224 | 1,041 | 0,893 | 0,771 | 0,671 | 0,587 | 0,517 |              |
|             | 0,80          | Moment (S. fläns)     | 5,087          | 4,386  | 3,821  | 3,358 | 2,975 | 2,653 | 2,382 | 2,149 | 1,949 | 1,776 | 1,625 | 1,493 |              |
|             |               | Nedböjning            | 4,951          | 4,269  | 3,718  | 3,268 | 2,895 | 2,582 | 2,318 | 2,092 | 1,897 | 1,729 | 1,582 | 1,453 |              |
|             |               | Moment (B. fläns)     | 3,738          | 2,993  | 2,433  | 2,005 | 1,672 | 1,408 | 1,198 | 1,026 | 0,886 | 0,772 | 0,675 | 0,594 |              |
|             | 0,90          | Moment (S. fläns)     | 6,217          | 5,361  | 4,67   | 4,104 | 3,636 | 3,243 | 2,91  | 2,627 | 2,383 | 2,171 | 1,986 | 1,824 |              |
|             |               | Nedböjning            | 6,119          | 5,276  | 4,596  | 4,04  | 3,578 | 3,192 | 2,865 | 2,585 | 2,345 | 2,137 | 1,955 | 1,795 |              |
|             |               | Moment (B. fläns)     | 4,288          | 3,433  | 2,792  | 2,3   | 1,917 | 1,615 | 1,373 | 1,175 | 1,017 | 0,885 | 0,774 | 0,682 |              |
|             | 1,00          | Moment (S. fläns)     | 7,386          | 6,369  | 5,548  | 4,876 | 4,319 | 3,853 | 3,458 | 3,121 | 2,83  | 2,579 | 2,36  | 2,167 |              |
|             |               | Nedböjning            | 6,999          | 6,035  | 5,257  | 4,621 | 4,093 | 3,651 | 3,277 | 2,957 | 2,682 | 2,444 | 2,236 | 2,054 |              |
|             |               | Moment (B. fläns)     | 4,755          | 3,807  | 3,095  | 2,55  | 2,126 | 1,791 | 1,523 | 1,306 | 1,127 | 0,981 | 0,858 | 0,755 |              |
|             | 1,20          | Moment (S. fläns)     | 8,386          | 7,231  | 6,299  | 5,536 | 4,904 | 4,374 | 3,926 | 3,543 | 3,214 | 2,928 | 2,679 | 2,46  |              |
|             |               | Nedböjning            | 8,906          | 7,679  | 6,69   | 5,879 | 5,208 | 4,646 | 4,169 | 3,763 | 3,413 | 3,11  | 2,845 | 2,613 |              |
|             |               | Moment (B. fläns)     | 5,756          | 4,608  | 3,747  | 3,088 | 2,574 | 2,168 | 1,844 | 1,581 | 1,366 | 1,188 | 1,039 | 0,915 |              |
|             | 1,50          | Moment (S. fläns)     | 10,55          | 9,1    | 7,927  | 6,967 | 6,172 | 5,505 | 4,941 | 4,459 | 4,044 | 3,685 | 3,372 | 3,097 |              |
|             |               | Nedböjning            | 12,36          | 10,66  | 9,283  | 8,159 | 7,227 | 6,446 | 5,786 | 5,222 | 4,736 | 4,315 | 3,948 | 3,626 |              |
|             |               | Moment (B. fläns)     | 7,242          | 5,799  | 4,715  | 3,885 | 3,239 | 2,728 | 2,32  | 1,989 | 1,718 | 1,494 | 1,308 | 1,151 |              |
|             |               | Moment (S. fläns)     | 14,17          | 12,22  | 10,64  | 9,355 | 8,286 | 7,391 | 6,634 | 5,987 | 5,43  | 4,948 | 4,527 | 4,158 |              |
|             |               | Nedböjning            | 2,467          | 2,231  | 2,028  | 1,854 | 1,702 | 1,569 | 1,452 | 1,348 | 1,255 | 1,172 | 1,097 | 1,029 |              |
|             |               | Moment (B. fläns)     | 8,119          | 6,501  | 5,285  | 4,355 | 3,631 | 3,059 | 2,6   | 2,23  | 1,926 | 1,675 | 1,466 | 1,29  |              |
|             | 0,70          | Upplag 200 (S. fläns) | 2,267          | 2,04   | 1,847  | 1,681 | 1,538 | 1,412 | 1,302 | 1,205 | 1,118 | 1,041 | 0,972 | 0,909 |              |
|             |               | Nedböjning            | 3,212          | 2,467  | 2,631  | 2,401 | 2,202 | 2,027 | 1,873 | 1,736 | 1,615 | 1,506 | 1,408 | 1,32  |              |
|             |               | Upplag 200 (B. fläns) | 9,318          | 7,464  | 6,069  | 5,00  | 4,169 | 3,517 | 2,986 | 2,56  | 2,211 | 1,924 | 1,684 | 1,481 |              |
|             | 0,80          | Upplag 200 (S. fläns) | 2,925          | 2,629  | 2,378  | 2,162 | 1,976 | 1,813 | 1,67  | 1,544 | 1,432 | 1,332 | 1,243 | 1,162 |              |
|             |               | Nedböjning            | 4,083          | 3,678  | 3,333  | 3,036 | 2,779 | 2,554 | 2,357 | 2,182 | 2,026 | 1,887 | 1,763 | 1,65  |              |
|             |               | Upplag 200 (B. fläns) | 10,665         | 8,539  | 6,942  | 5,72  | 4,769 | 4,018 | 3,416 | 2,929 | 2,53  | 2,20  | 1,926 | 1,695 |              |
|             | 0,90          | Upplag 200 (S. fläns) | 3,682          | 3,308  | 2,99   | 2,717 | 2,481 | 2,276 | 2,096 | 1,937 | 1,796 | 1,67  | 1,557 | 1,455 |              |
|             |               | Nedböjning            | 4,858          | 4,369  | 3,954  | 3,597 | 3,288 | 3,019 | 2,783 | 2,574 | 2,388 | 2,222 | 2,074 | 1,94  |              |
|             |               | Upplag 200 (B. fläns) | 11,785         | 9,437  | 7,669  | 6,319 | 5,269 | 4,438 | 3,774 | 3,236 | 2,795 | 2,431 | 2,128 | 1,873 |              |
|             | 1,00          | Upplag 200 (S. fläns) | 4,337          | 3,893  | 3,515  | 3,193 | 2,913 | 2,67  | 2,457 | 2,269 | 2,102 | 1,953 | 1,82  | 1,701 |              |
|             |               | Nedböjning            | 6,617          | 5,936  | 5,359  | 4,864 | 4,437 | 4,066 | 3,74  | 3,453 | 3,199 | 2,972 | 2,769 | 2,586 |              |
|             |               | Upplag 200 (B. fläns) | 14,16          | 11,339 | 9,218  | 7,596 | 6,33  | 5,335 | 4,536 | 3,889 | 3,36  | 2,922 | 2,557 | 2,25  |              |
|             | 1,20          | Upplag 200 (S. fläns) | 5,865          | 5,253  | 4,734  | 4,291 | 3,909 | 3,577 | 3,287 | 3,031 | 2,804 | 2,603 | 2,423 | 2,261 |              |
|             |               | Nedböjning            | 9,535          | 8,533  | 7,685  | 6,961 | 6,338 | 5,796 | 5,322 | 4,906 | 4,537 | 4,209 | 3,916 | 3,653 |              |
|             |               | Upplag 200 (B. fläns) | 17,65          | 14,141 | 11,493 | 9,473 | 7,896 | 6,651 | 5,656 | 4,849 | 4,189 | 3,643 | 3,189 | 2,805 |              |
|             | 1,50          | Upplag 200 (S. fläns) | 8,615          | 7,70   | 6,926  | 6,267 | 5,699 | 5,207 | 4,777 | 4,399 | 4,065 | 3,768 | 3,503 | 3,266 |              |
|             |               | Nedböjning            |                |        |        |       |       |       |       |       |       |       |       |       |              |
|             |               | Upplag 200 (B. fläns) |                |        |        |       |       |       |       |       |       |       |       |       |              |

#### Förklaringar:

|                       |                                    |
|-----------------------|------------------------------------|
| Moment (S. fläns)     | Bärförmåga vid smal fläns mot balk |
| Nedböjning            | Nedböjning L/200 (isolerat)        |
| Moment (B. fläns)     | Bärförmåga vid bred fläns mot balk |
| Upplag 200 (S. fläns) | Bärförmåga vid smal fläns mot balk |
| Upplag 200 (B. fläns) | Bärförmåga vid bred fläns mot balk |

#### Minimiinfästning:

Ändupplag 2 skruv i varje profilbotten  
 Mellanupplag, ändöverlapp 1 skruv i varje profilbotten  
 Sidöverlapp Max c/c 500 mm

#### Upplagsbredd:

≥ 100mm (gäller ändupplag)  
 ≥ 200mm (gäller mellanupplag)

Vid fler fack rekommenderas enkelfackmontage med kontinuitetsskarv (se bild)

