

Dimensioneringstabeller för brandisolering  
av bärande träkonstruktioner med

**NOVATHERM FR**



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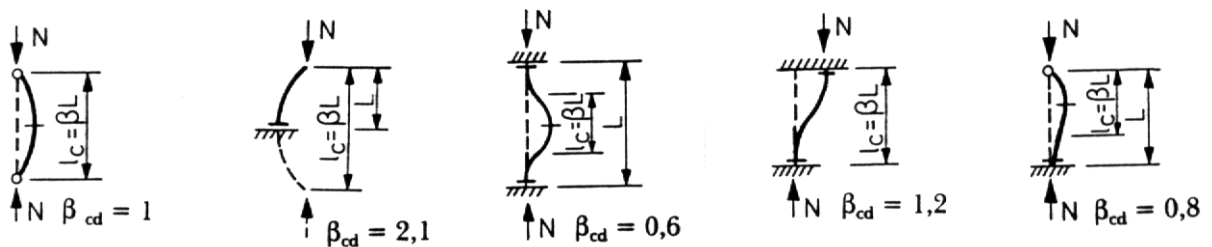
## INLEDNING

På uppdrag av PROTEGA AB har Fire Safety Design AB utvecklat dimensioneringstabeller för brandskyddsmålade massiva träkonstruktioner i brandteknisk klass R30 och R60. Dimensioneringstabellerna omfattar ensidigt, tre- och firsidigt brandpåverkade balkar samt firsidigt brandpåverkade pelare med centrisk last och ger erforderlig mängd brandskyddsfärg Novatherm 1FR, Novatherm 2FR samt Novatherm 4FR. Samtliga dimensioneringstabeller baseras på brandprovningar utförda av PROTEGA AB. Provningsresultat samt teorin för beräkning av erforderlig mängd brandskyddsfärg redovisas i /1/ respektive /2/. Dimensioneringstabellerna gäller under förutsättning att den bärande konstruktionen utformas och dimensioneras så att säkerheten mot instabilitet i form av bl.a. vippning är betryggande vid brand och föreskriven last enligt BBR 5:81, /3/. Redovisade mängder brandskyddsfärg gäller endast för konstruktioner med rektangulära tvärsnitt.

### 1.1. Förkortningar

Följande förkortningar har använts:

- h tvärsnittets höjd i utböjningsriktningen och  
 $l_c$  knäckningslängd =  $\beta_{cd} \cdot L$ , där  $L$  = stängens längd och  $\beta_{cd}$  enligt figuren



K-virke Konstruktionsvirke

L-trä Limträ

### 1.2. Definition av utnyttjandegraden

Utnyttjandegraden av konstruktionen definieras på följande sätt:

$$\alpha = \frac{S_{md}(\text{brandlast})}{R_{md}(\text{vanlig last})}$$

[1-1]

$$\mu = \frac{S_{md}(\text{brandlast}) \cdot S_{md}(\text{vanlig last})}{R_{md}(\text{brandlast}) \cdot R_{md}(\text{vanlig last})} = \alpha \cdot \frac{S_{md}(\text{vanlig last})}{R_{md}(\text{brandlast})}$$

[1-2]

där

$\alpha$  = lastutnyttjandegraden vid vanlig last,

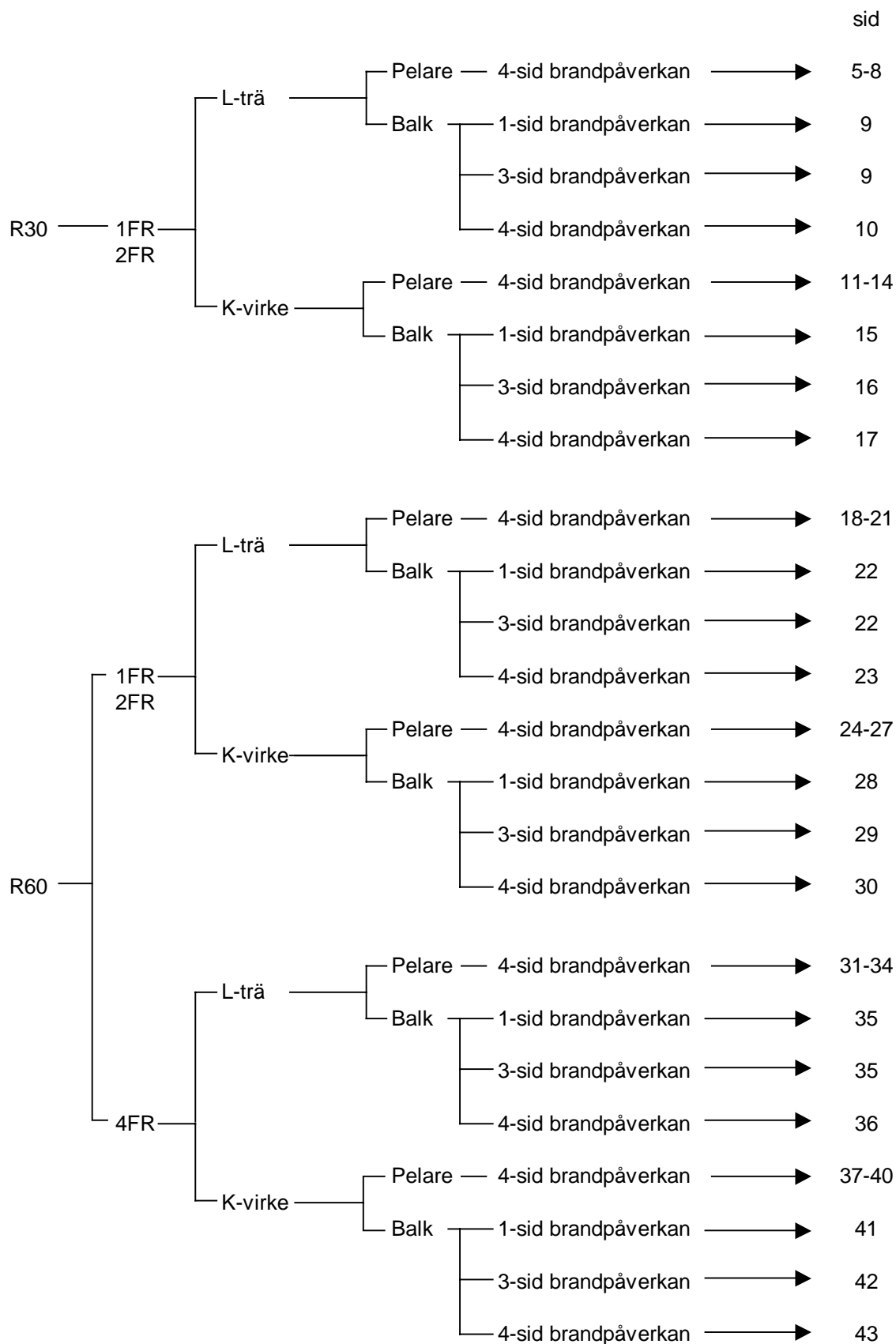
$S_{md}$  = dimensionerande lasteffekt för moment

$R_{md}$  = den dimensionerande bärförmågan

$\mu$  = utnyttjandegraden vid brandlast

I dimensioneringstabellerna anges 'Lastutnyttjandegrad Vanligt fall', vilket refererar till lastutnyttjandegraden vid vanlig last,  $\alpha$ .

# 1. SÖKSHEMA



## 2. R30, NOVATHERM 1FR OCH 2FR, L-TRÄ, PELARE

**Tabell 3.1**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | 0    | 90            | 1000                             | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |      |
|  | 0    | 115           | 750                              | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 0    | 140           | 750                              | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 0    | 165           | 500                              | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 0    | 190           | 500                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 0    | 215           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 10   | 90            | 1250                             | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
|  |      | 115           | 1000                             | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|  |      | 140           | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|  |      | 165           | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  |      | 190           | 750                              | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  |      | 215           | 750                              | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 90            | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  |
|  |      | 115           | 1250                             | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 500  | 500  |
|  |      | 140           | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|  |      | 165           | 1000                             | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|  |      | 190           | 1000                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
|  |      | 215           | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 30   | 90            |                                  |      | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 |
|  |      | 115           |                                  |      | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  |
|  |      | 140           |                                  |      | 1500 | 1500 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  |
|  |      | 165           |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 500  |
|  |      | 190           |                                  |      | 1500 | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  |
|  |      | 215           |                                  |      | 1500 | 1500 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  |
| 50   | 90   |               |                                  |      | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 |      |
|  | 115  |               |                                  |      | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |      |
|  | 140  |               |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  |      |
|  | 165  |               |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  |      |
|  | 190  |               |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  |
|  | 215  |               |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  |

**Tabell 3.2**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |     |     |     |     |     |     |     |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540 | 585 | 630 | 675 | 720 | 765 | 810 |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |     |     |     |     |     |     |     |
| 80   | 0    | 90            | 500                              | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500 | 500 | 500 | 500 | 500 | 500 |     |
|  | 0    | 115           | 500                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 140           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 90            | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500 | 500 | 500 | 500 | 500 | 500 |     |
|  | 10   | 115           | 500                              | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 140           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 165           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 90            | 1000                             | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500 | 500 | 500 | 500 | 500 | 500 |     |
|  | 20   | 115           | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500 | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 140           | 750                              | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 165           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 190           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 215           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   | 0   |     |
|  | 30   | 90            | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 750 | 750 | 750 | 750 | 750 | 750 | 500 |
|  | 30   | 115           | 1500                             | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750 | 500 | 500 | 500 | 500 | 500 | 500 |
|  | 30   | 140           | 1500                             | 1250 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
|  | 30   | 165           | 1500                             | 1250 | 1000 | 1000 | 750  | 750  | 750  | 500  | 500 | 500 | 500 | 500 | 500 | 0   | 0   |
|  | 30   | 190           | 1500                             | 1250 | 1000 | 750  | 750  | 750  | 500  | 500  | 500 | 500 | 500 | 0   | 0   | 0   | 0   |
|  | 30   | 215           | 1500                             | 1250 | 1000 | 750  | 750  | 750  | 500  | 500  | 500 | 500 | 0   | 0   | 0   | 0   | 0   |
| 50   | 90   | 1500          | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 750 | 750 | 750 | 750 | 750 | 750 |     |
| 50   | 115  | 1500          | 1250                             | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750 | 750 | 500 | 500 | 500 | 500 |     |
| 50   | 140  | 1500          | 1250                             | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500 | 500 | 500 | 500 | 500 | 500 |     |
| 50   | 165  | 1500          | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500 | 500 | 500 | 500 | 500 | 0   |     |
| 50   | 190  | 1500          | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500 | 500 | 500 | 500 | 0   | 0   |     |
| 50   | 215  | 1500          | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500 | 500 | 500 | 0   | 0   | 0   |     |

**Tabell 3.3**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|------|---------------|----------------------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |      |               | 180                              | 225  | 270 | 315 | 360 | 405 | 450 | 495 | 540 | 585 | 630 | 675 | 720 | 765 | 810 |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 60   | 0    | 90            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 115           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 140           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 165           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 190           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 215           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 90            | 500                              | 500  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 115           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 140           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 165           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 190           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 215           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 90            | 500                              | 500  | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 115           | 500                              | 500  | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 140           | 500                              | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 165           | 500                              | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 190           | 500                              | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 215           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 90            | 1250                             | 1000 | 750 | 750 | 750 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
|  | 30   | 115           | 1250                             | 1000 | 750 | 750 | 500 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 140           | 1000                             | 1000 | 750 | 500 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 165           | 1000                             | 1000 | 750 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 190           | 1000                             | 750  | 750 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 215           | 1000                             | 750  | 750 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50   | 90   | 1250          | 1000                             | 1000 | 750 | 750 | 750 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |     |
| 50   | 115  | 1250          | 1000                             | 750  | 750 | 500 | 500 | 500 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 140  | 1250          | 1000                             | 750  | 750 | 500 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 165  | 1250          | 1000                             | 750  | 500 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 190  | 1250          | 1000                             | 750  | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 215  | 1250          | 1000                             | 750  | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |

**Tabell 3.4**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|------|---------------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |      |               | 180                              | 225 | 270 | 315 | 360 | 405 | 450 | 495 | 540 | 585 | 630 | 675 | 720 | 765 | 810 |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 40   | 0    | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 0    | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 10   | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 90            | 500                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 20   | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 90            | 1000                             | 750 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 115           | 1000                             | 750 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 140           | 750                              | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 165           | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 190           | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 30   | 215           | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 50   | 90   | 1000          | 750                              | 750 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 115  | 1000          | 750                              | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 140  | 1000          | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 165  | 1000          | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 190  | 1000          | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |
| 50   | 215  | 1000          | 750                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |     |

### 3. R30, NOVATHERM 1FR OCH 2FR, L-TRÄ, BALK, 1-SID

Ingen brandskyddsfärg erfordras.

### 4. R30, NOVATHERM 1FR OCH 2FR, L-TRÄ, BALK, 3-SID

**Tabell 5.1**

Dimensioneringstabell för tresidigt brandpåverkade limträbalkar.

Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--|---------------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|  |               | 180                              | 225 | 270 | 315 | 360 | 405 | 450 | 495 | 540 | 585 | 630 | 675 | 720 | 765 | 810 |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 100  | 90            | 500                              | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |
|  | 115           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 80   | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 60   | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
| 40   | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |

## 5. R30, NOVATHERM 1FR OCH 2FR, L-TRÄ, BALK, 4-SID

**Tabell 6.1**

Dimensioneringstabell för fyrsidigt brandpåverkade limträbalkar.

Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnytt-<br>jandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
|---|---------------|----------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|
|   |               | 180                              | 225 | 270 | 315 | 360 | 405 | 450 | 495 | 540 | 585 | 630 | 675 | 720 | 765 | 810 |  |
|   |               | Färgmängd<br>[g/m <sup>2</sup> ] |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |
| 100   | 90            | 750                              | 750 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 | 500 |  |
|   | 115           | 750                              | 500 | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 140           | 500                              | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 165           | 500                              | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 190           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 215           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
| 80  | 90            | 500                              | 500 | 500 | 500 | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 115           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
| 60  | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
| 40  | 90            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 115           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 140           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 165           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 190           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |
|   | 215           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   | 0   |  |

## 6. R30, NOVATHERM 1FR OCH 2FR, K-VIRKE, PELARE

**Tabell 7.1**

Dimensioneringstabell för firsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 100  | 0    | 75            | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 |
|  | 0    | 100           | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 750  |
|  | 0    | 125           | 1250                             | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 0    | 150           | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  |
|  | 0    | 200           | 1000                             | 750  | 500  | 500  | 500  | 0    | 0    |
|  | 0    | 225           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    |
|  | 10   | 75            | 1500                             | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
|  | 10   | 100           | 1500                             | 1250 | 1000 | 1000 | 1000 | 750  | 750  |
|  | 10   | 125           | 1500                             | 1250 | 1000 | 1000 | 750  | 750  | 750  |
|  | 10   | 150           | 1250                             | 1000 | 1000 | 750  | 750  | 500  | 500  |
|  | 10   | 200           | 1250                             | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 10   | 225           | 1250                             | 1000 | 750  | 500  | 500  | 500  | 500  |
|  | 20   | 75            |                                  | 1500 | 1500 | 1250 | 1250 | 1250 |      |
|  | 20   | 100           |                                  | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 |
|  | 20   | 125           |                                  | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
|  | 20   | 150           |                                  | 1500 | 1250 | 1000 | 1000 | 1000 | 750  |
|  | 20   | 200           |                                  | 1500 | 1250 | 1000 | 1000 | 750  | 750  |
|  | 20   | 225           |                                  | 1500 | 1250 | 1000 | 750  | 750  | 750  |
|  | 30   | 75            |                                  |      |      |      |      |      |      |
|  | 30   | 100           |                                  |      |      |      |      | 1500 | 1500 |
|  | 30   | 125           |                                  |      |      |      |      | 1500 | 1500 |
|  | 30   | 150           |                                  |      |      |      |      | 1500 | 1500 |
|  | 30   | 200           |                                  |      |      |      | 1500 | 1500 | 1500 |
|  | 30   | 225           |                                  |      |      |      | 1500 | 1500 | 1500 |
| 50   | 75   |               |                                  |      |      |      |      |      |      |
| 50   | 100  |               |                                  |      |      |      |      | 1500 |      |
| 50   | 125  |               |                                  |      |      |      |      | 1500 |      |
| 50   | 150  |               |                                  |      |      |      | 1500 | 1500 |      |
| 50   | 200  |               |                                  |      |      |      | 1500 | 1500 |      |
| 50   | 225  |               |                                  |      |      |      | 1500 | 1500 |      |

**Tabell 7.2**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 80   | 0    | 75            | 1000                             | 1000 | 750  | 750  | 750  | 750  | 500  |
|  | 0    | 100           | 1000                             | 750  | 500  | 500  | 500  | 500  | 500  |
|  | 0    | 125           | 750                              | 500  | 500  | 500  | 0    | 0    | 0    |
|  | 0    | 150           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 0    | 200           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 225           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 75            | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 750  |
|  | 10   | 100           | 1000                             | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 10   | 125           | 1000                             | 750  | 500  | 500  | 500  | 500  | 500  |
|  | 10   | 150           | 1000                             | 750  | 500  | 500  | 500  | 0    | 0    |
|  | 10   | 200           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    |
|  | 10   | 225           | 1000                             | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 20   | 75            | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 750  |
|  | 20   | 100           | 1500                             | 1250 | 1000 | 1000 | 750  | 750  | 750  |
|  | 20   | 125           | 1500                             | 1250 | 1000 | 750  | 750  | 500  | 500  |
|  | 20   | 150           | 1500                             | 1000 | 1000 | 750  | 500  | 500  | 500  |
|  | 20   | 200           | 1500                             | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 20   | 225           | 1250                             | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 30   | 75            |                                  |      |      | 1500 | 1500 | 1500 | 1250 |
|  | 30   | 100           |                                  |      |      | 1500 | 1500 | 1250 | 1250 |
|  | 30   | 125           |                                  |      |      | 1500 | 1500 | 1250 | 1000 |
|  | 30   | 150           |                                  |      |      | 1500 | 1250 | 1250 | 1000 |
|  | 30   | 200           |                                  |      |      | 1500 | 1250 | 1250 | 1000 |
|  | 30   | 225           |                                  | 1500 | 1500 | 1250 | 1250 | 1000 |      |
|  | 50   | 75            |                                  |      |      | 1500 | 1500 | 1500 |      |
|  | 50   | 100           |                                  |      |      | 1500 | 1500 | 1500 | 1250 |
|  | 50   | 125           |                                  |      |      | 1500 | 1500 | 1250 | 1250 |
|  | 50   | 150           |                                  |      |      | 1500 | 1500 | 1250 | 1250 |
| 50   | 200  |               |                                  |      | 1500 | 1500 | 1250 | 1000 |      |
| 50   | 225  |               |                                  |      | 1500 | 1500 | 1250 | 1000 |      |

**Tabell 7.3**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |      |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |
| 60   | 0    | 75            | 750                              | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|  | 0    | 100           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 125           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 150           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 200           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 225           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 75            | 1000                             | 750  | 500  | 500  | 500  | 500  | 500  | 500  |
|  | 10   | 100           | 750                              | 500  | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 10   | 125           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 150           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 200           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 225           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 75            | 1250                             | 1000 | 750  | 750  | 750  | 500  | 500  | 500  |
|  | 20   | 100           | 1250                             | 1000 | 750  | 500  | 500  | 500  | 500  | 500  |
|  | 20   | 125           | 1250                             | 1000 | 750  | 500  | 500  | 500  | 0    | 0    |
|  | 20   | 150           | 1000                             | 750  | 500  | 500  | 500  | 0    | 0    | 0    |
|  | 20   | 200           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 20   | 225           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 30   | 75            |                                  |      | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
|  | 30   | 100           |                                  |      | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 |
|  | 30   | 125           |                                  |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  |
|  | 30   | 150           |                                  |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  |
|  | 30   | 200           |                                  | 1500 | 1500 | 1250 | 1000 | 1000 | 750  | 750  |
|  | 30   | 225           |                                  | 1500 | 1500 | 1250 | 1000 | 1000 | 750  | 750  |
|  | 50   | 75            |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 |
|  | 50   | 100           |                                  |      | 1500 | 1500 | 1250 | 1000 | 1000 | 1000 |
|  | 50   | 125           |                                  |      | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
|  | 50   | 150           |                                  |      | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
| 50   | 200  |               |                                  | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 |      |
| 50   | 225  |               |                                  | 1500 | 1250 | 1000 | 1000 | 750  | 750  |      |

**Tabell 7.4**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |     |     |
|--|------|---------------|----------------------------------|------|------|------|------|-----|-----|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200 | 225 |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |     |     |
| 40   | 0    | 75            | 500                              | 500  | 0    | 0    | 0    | 0   | 0   |
|  | 0    | 100           | 500                              | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 0    | 125           | 0                                | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 0    | 150           | 0                                | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 0    | 200           | 0                                | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 0    | 225           | 0                                | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 10   | 75            | 500                              | 500  | 500  | 0    | 0    | 0   | 0   |
|  | 10   | 100           | 500                              | 500  | 0    | 0    | 0    | 0   | 0   |
|  | 10   | 125           | 500                              | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 10   | 150           | 500                              | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 10   | 200           | 500                              | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 10   | 225           | 500                              | 0    | 0    | 0    | 0    | 0   | 0   |
|  | 20   | 75            | 1000                             | 750  | 500  | 500  | 500  | 500 | 0   |
|  | 20   | 100           | 1000                             | 750  | 500  | 500  | 0    | 0   | 0   |
|  | 20   | 125           | 1000                             | 500  | 500  | 0    | 0    | 0   | 0   |
|  | 20   | 150           | 1000                             | 500  | 500  | 0    | 0    | 0   | 0   |
|  | 20   | 200           | 1000                             | 500  | 500  | 0    | 0    | 0   | 0   |
|  | 20   | 225           | 1000                             | 500  | 500  | 0    | 0    | 0   | 0   |
|  | 30   | 75            |                                  | 1500 | 1250 | 1000 | 1000 | 750 | 750 |
|  | 30   | 100           |                                  | 1500 | 1250 | 1000 | 1000 | 750 | 750 |
|  | 30   | 125           |                                  | 1500 | 1250 | 1000 | 750  | 750 | 500 |
|  | 30   | 150           |                                  | 1500 | 1250 | 1000 | 750  | 750 | 500 |
|  | 30   | 200           |                                  | 1500 | 1250 | 1000 | 750  | 750 | 500 |
|  | 30   | 225           |                                  | 1500 | 1250 | 1000 | 750  | 750 | 500 |
| 50   | 75   |               | 1500                             | 1250 | 1250 | 1000 | 1000 | 750 |     |
| 50   | 100  |               | 1500                             | 1250 | 1000 | 1000 | 750  | 750 |     |
| 50   | 125  |               | 1500                             | 1250 | 1000 | 1000 | 750  | 750 |     |
| 50   | 150  |               | 1500                             | 1250 | 1000 | 1000 | 750  | 750 |     |
| 50   | 200  |               | 1500                             | 1250 | 1000 | 1000 | 750  | 750 |     |
| 50   | 225  |               | 1500                             | 1250 | 1000 | 1000 | 750  | 500 |     |

## 7. R30, NOVATHERM 1FR OCH 2FR, K-virke, BALK, 1-SID

**Tabell 8.1**

Dimensioneringstabell för ensidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |     |     |     |     |     |     |
|--|---------------|----------------------------------|-----|-----|-----|-----|-----|-----|
|  |               | 75                               | 100 | 125 | 150 | 175 | 200 | 225 |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |     |     |     |     |     |     |
| 100  | 50            | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 500                              | 0   | 0   | 0   | 0   | 0   | 0   |
| 80   | 50            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
| 60   | 50            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
| 40   | 50            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 0                                | 0   | 0   | 0   | 0   | 0   | 0   |

## 8. R30, NOVATHERM 1FR OCH 2FR, K-virke, BALK, 3-SID

**Tabell 9.1**

Dimensioneringstabell för tresidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |
|--|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|
|  |               | 50                               | 63   | 75   | 100  | 125  | 150  | 175  | 200  | 225  |      |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |
| 100  | 50            | 1500                             | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
|  | 63            | 1500                             | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 70            | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  |      |
|  | 95            | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  |      |
|  | 100           | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  |      |
|  | 125           | 1250                             | 1000 | 1000 | 750  | 500  | 500  | 500  | 500  | 500  |      |
|  | 150           | 1000                             | 1000 | 750  | 500  | 500  | 500  | 500  | 0    | 0    |      |
| 80   | 50            | 1250                             | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 63            | 1250                             | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
|  | 70            | 1000                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  |      |
|  | 95            | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 0    |      |
|  | 100           | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 0    | 0    |      |
|  | 125           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |      |
|  | 150           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    |      |
| 60   | 50            | 1000                             | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  |      |
|  | 63            | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 70            | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 95            | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 100           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 125           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 150           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| 40   | 50            | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 63            | 500                              | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    |      |
|  | 70            | 500                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 95            | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 100           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 125           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 150           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## 9. R30, NOVATHERM 1FR OCH 2FR, K-virke, BALK, 4-SID

**Tabell 10.1**

Dimensioneringstabell för firsidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R30. Brandskyddsfärg Novatherm 1FR och 2FR

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |
|--|---------------|----------------------------------|------|------|------|------|------|------|------|------|
|  |               | 50                               | 63   | 75   | 100  | 125  | 150  | 175  | 200  | 225  |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |
| 100  | 50            |                                  |      |      | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 |
|  | 63            |                                  |      |      | 1500 | 1500 | 1250 | 1250 | 1250 | 1000 |
|  | 70            |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
|  | 75            |                                  |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |
|  | 95            |                                  |      | 1500 | 1250 | 1000 | 1000 | 1000 | 750  | 750  |
|  | 100           |                                  |      | 1500 | 1250 | 1000 | 1000 | 1000 | 750  | 750  |
|  | 125           |                                  | 1500 | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 500  |
|  | 150           |                                  | 1500 | 1500 | 1250 | 1000 | 750  | 750  | 500  | 500  |
| 80   | 50            |                                  | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 |
|  | 63            |                                  | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 750  | 750  |
|  | 70            | 1500                             | 1500 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  |
|  | 75            | 1500                             | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  | 750  |
|  | 95            | 1500                             | 1250 | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 100           | 1500                             | 1250 | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 125           | 1500                             | 1250 | 1000 | 1000 | 750  | 500  | 500  | 500  | 500  |
|  | 150           | 1500                             | 1250 | 1000 | 750  | 750  | 500  | 500  | 0    | 0    |
| 60   | 50            | 1500                             | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
|  | 63            | 1500                             | 1250 | 1250 | 1250 | 1250 | 750  | 750  | 500  | 500  |
|  | 70            | 1250                             | 1250 | 1250 | 1250 | 1000 | 500  | 500  | 500  | 500  |
|  | 75            | 1250                             | 1250 | 1250 | 1250 | 750  | 500  | 500  | 500  | 500  |
|  | 95            | 1250                             | 1250 | 1250 | 750  | 500  | 500  | 500  | 0    | 0    |
|  | 100           | 1250                             | 1250 | 1250 | 750  | 500  | 500  | 500  | 0    | 0    |
|  | 125           | 1250                             | 1250 | 1250 | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 150           | 1250                             | 1250 | 1250 | 500  | 500  | 0    | 0    | 0    | 0    |
| 40   | 50            | 1250                             | 1250 | 1250 | 1250 | 750  | 500  | 500  | 500  | 500  |
|  | 63            | 1250                             | 1250 | 1250 | 500  | 500  | 500  | 500  | 500  | 500  |
|  | 70            | 1250                             | 1250 | 1000 | 500  | 500  | 500  | 500  | 0    | 0    |
|  | 75            | 1250                             | 1250 | 1000 | 500  | 500  | 500  | 0    | 0    | 0    |
|  | 95            | 2150                             | 1250 | 750  | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 100           | 1250                             | 1250 | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 125           | 1250                             | 1000 | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 150           | 1250                             | 1000 | 500  | 0    | 0    | 0    | 0    | 0    | 0    |

## 10. R60, NOVATHERM 1FR OCH 2FR, L-TRÄ, PELARE

**Tabell 11.1**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225 | 270 | 315 | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | 0    | 90            |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 0    | 115           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 0    | 140           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 0    | 165           |                                  |     |     |     |      |      |      |      |      |      |      | 1500 | 1500 | 1500 |      |      |
|  | 0    | 190           |                                  |     |     |     |      |      |      | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 0    | 215           |                                  |     |     |     | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  |      |
|  | 10   | 90            |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 10   | 115           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 10   | 140           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 10   | 165           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 10   | 190           |                                  |     |     |     |      |      |      | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 |      |      |      |
|  | 10   | 215           |                                  |     |     |     | 1500 | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |      |      |
|  | 20   | 90            |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 115           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 140           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 165           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 190           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 215           |                                  |     |     |     |      |      |      |      |      |      |      | 1500 | 1500 | 1500 | 1250 |      |
|  | 30   | 90            |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 115           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 140           |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   | 165  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   | 190  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 30   | 215  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 90   |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 115  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 140  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 165  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 190  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 215  |               |                                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |

**Tabell 11.2**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 80   | 0    | 90            | 1500                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 0    | 115           | 1500                             |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 | 1500 |
|  | 0    | 140           | 1500                             |      | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  |
|  | 0    | 165           | 1250                             |      | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  |
|  | 0    | 190           | 1500                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 0    |
|  | 0    | 215           | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 90            | 1500                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 10   | 115           | 1500                             |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 |      |
|  | 10   | 140           | 1500                             |      | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 10   | 165           | 1500                             |      | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 500  | 500  |      |
|  | 10   | 190           | 1500                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 10   | 215           | 1250                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |      |
|  | 20   | 90            | 1500                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 115           | 1500                             |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 |      |
|  | 20   | 140           | 1500                             |      | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 20   | 165           | 1500                             |      | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 500  | 500  |      |
|  | 20   | 190           | 1500                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 20   | 215           | 1500                             | 1250 | 1000 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 30   | 90            | 1500                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 115           | 1500                             |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 |      |
|  | 30   | 140           | 1500                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 165           | 1500                             |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 190           | 1500                             |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 |      |      |
|  | 30   | 215           | 1500                             |      |      |      |      |      |      |      |      |      |      | 1500 | 1250 | 1250 |      |
| 50   | 90   | 1500          |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 115  | 1500          |                                  |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 |      |      |
| 50   | 140  | 1500          |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 165  | 1500          |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 190  | 1500          |                                  |      |      |      |      |      |      |      |      |      | 1500 | 1500 |      |      |      |
| 50   | 215  | 1500          |                                  |      |      |      |      |      |      |      |      |      | 1500 | 1500 |      |      |      |

**Tabell 11.3**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |      |     |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 60   | 0    | 90            |                                  |      |      |      |      |      | 1500 | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |     |
|  | 0    | 115           | 1250                             | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |     |
|  | 0    | 140           | 1000                             | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |     |
|  | 0    | 165           | 750                              | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
|  | 0    | 190           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
|  | 0    | 215           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
|  | 10   | 90            |                                  |      |      |      |      |      | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1250 |     |
|  | 10   | 115           |                                  |      | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |     |
|  | 10   | 140           | 1500                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |     |
|  | 10   | 165           | 1000                             | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
|  | 10   | 190           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
|  | 10   | 215           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |     |
|  | 20   | 90            |                                  |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 |      |      |      |     |
|  | 20   | 115           |                                  |      |      |      | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  |      |     |
|  | 20   | 140           |                                  |      | 1500 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |     |
|  | 20   | 165           |                                  |      | 1000 | 1000 | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |      |     |
|  | 20   | 190           |                                  |      | 1500 | 1000 | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |     |
|  | 20   | 215           |                                  |      | 1250 | 1000 | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |     |
|  | 30   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1250 |      |     |
|  | 30   | 115           |                                  |      |      |      |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 |      |     |
|  | 30   | 140           |                                  |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  |      |      |      |     |
|  | 30   | 165           |                                  |      |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  |      |      |     |
|  | 30   | 190           |                                  |      |      |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  | 500  |     |
|  | 30   | 215           |                                  |      |      |      |      |      |      |      |      |      | 1250 | 1000 | 1000 | 750  | 750  | 500  | 500  | 500 |
| 50   | 90   |               |                                  |      |      |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 |      |      |     |
| 50   | 115  |               |                                  |      |      |      |      |      |      |      |      |      | 1500 | 1250 | 1250 | 1000 | 1000 |      |      |     |
| 50   | 140  |               |                                  |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 1000 | 750  |      |      |      |      |     |
| 50   | 165  |               |                                  |      |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 1000 | 750  |      |      |      |     |
| 50   | 190  |               |                                  |      |      |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  |      |     |
| 50   | 215  |               |                                  |      |      |      |      |      |      |      |      |      | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  | 500 |

**Tabell 11.4**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |     |     |     |     |     |     |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585 | 630 | 675 | 720 | 765 | 810 |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |     |     |     |     |     |     |
| 40   | 0    | 90            | 1000                             | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750 | 750 | 750 | 750 | 750 |     |
|  | 0    | 115           | 500                              | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 140           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 0    | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 90            | 1250                             | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750 | 750 | 750 | 750 | 750 |     |
|  | 10   | 115           | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500 | 500 | 0   | 0   | 0   |     |
|  | 10   | 140           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 165           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 10   | 215           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 90            | 1500                             | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750 | 750 | 750 | 750 | 750 |     |
|  | 20   | 115           | 1000                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500 | 500 | 500 | 500 | 500 |     |
|  | 20   | 140           | 1500                             | 1000 | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 165           | 1250                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 190           | 1000                             | 750  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 20   | 215           | 1000                             | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0   | 0   | 0   | 0   | 0   |     |
|  | 30   | 90            | 1500                             | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 |      |      |     |     |     |     |     |     |
|  | 30   | 115           | 1500                             | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750 | 750 | 500 |     |     |     |
|  | 30   | 140           | 1250                             | 1000 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500 | 500 |     |     |     |     |
|  | 30   | 165           | 1500                             | 1000 | 1000 | 750  | 500  | 500  | 500  | 500  | 500  | 0   | 0   |     |     |     |     |
|  | 30   | 190           | 1500                             | 1000 | 750  | 750  | 500  | 500  | 500  | 0    | 0    | 0   | 0   |     |     |     |     |
|  | 30   | 215           | 1250                             | 1000 | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0   | 0   |     |     |     |     |
| 50   | 90   | 1500          | 1500                             | 1250 | 1250 | 1000 | 1000 |      |      |      |      |     |     |     |     |     |     |
| 50   | 115  | 1500          | 1250                             | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750 |     |     |     |     |     |
| 50   | 140  | 1250          | 1000                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  |      |     |     |     |     |     |     |
| 50   | 165  | 1500          | 1000                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 0    |     |     |     |     |     |     |
| 50   | 190  | 1250          | 1000                             | 750  | 750  | 500  | 500  | 500  | 0    | 0    | 0    |     |     |     |     |     |     |
| 50   | 215  | 1250          | 1000                             | 750  | 500  | 500  | 500  | 500  | 500  | 0    | 0    |     |     |     |     |     |     |

## 11. R60, NOVATHERM 1FR OCH 2FR, L-trä, BALK, 1-SID

Ingen brandskyddsfärg erfordras.

## 12. R60, NOVATHERM 1FR OCH 2FR, L-trä, BALK, 3-SID

**Tabell 13.1**

Dimensioneringstabell för tresidigt brandpåverkade limträbalkar.

Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnytt-<br>jandegrad | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                          |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |
| Vanligt fall<br>[%]      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100                      | 115           |                                  |      |      |      | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 |
|                          | 140           |                                  | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
|                          | 165           | 1250                             | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|                          | 190           | 1000                             | 750  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 750                              | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 80                       | 115           | 1250                             | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
|                          | 140           | 750                              | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|                          | 165           | 500                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 60                       | 115           | 750                              | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|                          | 140           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 40                       | 115           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 140           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

### 13. R60, NOVATHERM 1FR OCH 2FR, L-trä, BALK, 4-SID

**Tabell 14.1**

Dimensioneringstabell för fyrsidigt brandpåverkade limträbalkar.

Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnytt-<br>jandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|   |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |
|   |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|   | 115           |                                  |      |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 | 1500 |
|   | 140           |                                  |      |      |      | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |      |
|   | 165           |                                  |      | 1500 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 500  | 500  |      |      |
|   | 190           |                                  | 1500 | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |      |
|   | 215           |                                  |      | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    |      |
| 80  | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      | 1500 | 1500 | 1500 | 1500 |
|   | 115           |                                  |      |      | 1500 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  |      |
|   | 140           |                                  | 1500 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  |      |      |
|   | 165           |                                  |      | 1500 | 1000 | 750  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |      |
|   | 190           | 1500                             | 1000 | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|   | 215           | 1500                             | 1000 | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| 60  | 90            |                                  | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |      |      |
|   | 115           | 1500                             | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |      |
|   | 140           | 1000                             | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |
|   | 165           | 1000                             | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|   | 190           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|   | 215           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
| 40  | 90            | 1000                             | 1000 | 750  | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |      |
|   | 115           | 750                              | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |
|   | 140           | 500                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |
|   | 165           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |
|   | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |
|   | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |      |

## 14. R60, NOVATHERM 1FR OCH 2FR, K-VIRKE, PELARE

**Tabell 15.1**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm] |     |     |     |     |     |     |
|--|------|---------------|--------------|-----|-----|-----|-----|-----|-----|
|  |      |               | 75           | 100 | 125 | 150 | 175 | 200 | 225 |
| 100  | 0    | 75            | 1500         |     |     |     |     |     |     |
|  | 0    | 100           |              |     |     |     |     |     |     |
|  | 0    | 125           |              |     |     |     |     |     |     |
|  | 0    | 150           |              |     |     |     |     |     |     |
|  | 0    | 200           |              |     |     |     |     |     |     |
|  | 0    | 225           |              |     |     |     |     |     |     |
|  | 10   | 75            |              |     |     |     |     |     |     |
|  | 10   | 100           |              |     |     |     |     |     |     |
|  | 10   | 125           |              |     |     |     |     |     |     |
|  | 10   | 150           |              |     |     |     |     |     |     |
|  | 10   | 200           |              |     |     |     |     |     |     |
|  | 10   | 225           |              |     |     |     |     |     |     |
|  | 20   | 75            |              |     |     |     |     |     |     |
|  | 20   | 100           |              |     |     |     |     |     |     |
|  | 20   | 125           |              |     |     |     |     |     |     |
|  | 20   | 150           |              |     |     |     |     |     |     |
|  | 20   | 200           |              |     |     |     |     |     |     |
|  | 20   | 225           |              |     |     |     |     |     |     |
|  | 30   | 75            |              |     |     |     |     |     |     |
|  | 30   | 100           |              |     |     |     |     |     |     |
|  | 30   | 125           |              |     |     |     |     |     |     |
|  | 30   | 150           |              |     |     |     |     |     |     |
|  | 30   | 200           |              |     |     |     |     |     |     |
|  | 30   | 225           |              |     |     |     |     |     |     |
|  | 50   | 75            |              |     |     |     |     |     |     |
|  | 50   | 100           |              |     |     |     |     |     |     |
|  | 50   | 125           |              |     |     |     |     |     |     |
|  | 50   | 150           |              |     |     |     |     |     |     |
| 50   | 200  |               |              |     |     |     |     |     |     |
| 50   | 225  |               |              |     |     |     |     |     |     |

**Tabell 15.2**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |     |     |     |     |      |      |      |     |
|--|------|---------------|----------------------------------|------|------|-----|-----|-----|-----|------|------|------|-----|
|  |      |               | 75                               | 100  | 125  | 150 | 175 | 200 | 225 |      |      |      |     |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |     |     |     |     |      |      |      |     |
| 80   | 0    | 75            |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 0    | 100           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 0    | 125           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 0    | 150           |                                  |      |      |     |     |     |     | 1500 | 1250 | 1000 |     |
|  | 0    | 200           |                                  |      |      |     |     |     |     | 1250 | 1000 | 750  | 750 |
|  | 0    | 225           |                                  |      |      |     |     |     |     | 1000 | 1000 | 750  | 500 |
|  | 10   | 75            |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 10   | 100           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 10   | 125           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 10   | 150           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 10   | 200           | 1250                             | 1000 |      |     |     |     |     |      |      |      |     |
|  | 10   | 225           | 1500                             | 1000 | 1000 |     |     |     |     |      |      |      |     |
|  | 20   | 75            |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 20   | 100           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 20   | 125           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 20   | 150           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 20   | 200           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 20   | 225           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 30   | 75            |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 30   | 100           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 30   | 125           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 30   | 150           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 30   | 200           |                                  |      |      |     |     |     |     |      |      |      |     |
|  | 30   | 225           |                                  |      |      |     |     |     |     |      |      |      |     |
| 50   | 75   |               |                                  |      |      |     |     |     |     |      |      |      |     |
| 50   | 100  |               |                                  |      |      |     |     |     |     |      |      |      |     |
| 50   | 125  |               |                                  |      |      |     |     |     |     |      |      |      |     |
| 50   | 150  |               |                                  |      |      |     |     |     |     |      |      |      |     |
| 50   | 200  |               |                                  |      |      |     |     |     |     |      |      |      |     |
| 50   | 225  |               |                                  |      |      |     |     |     |     |      |      |      |     |

**Tabell 15.3**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |     |
|--|------|---------------|----------------------------------|------|------|------|------|------|-----|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225 |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |     |
| 60   | 0    | 75            |                                  |      |      |      |      |      |     |
|  | 0    | 100           |                                  |      |      | 1500 | 1250 | 1250 |     |
|  | 0    | 125           |                                  |      | 1500 | 1000 | 1000 | 750  | 750 |
|  | 0    | 150           |                                  |      | 1000 | 1000 | 750  | 500  | 500 |
|  | 0    | 200           |                                  | 1250 | 750  | 500  | 500  | 0    | 0   |
|  | 0    | 225           |                                  | 1250 | 750  | 500  | 500  | 0    | 0   |
|  | 10   | 75            |                                  |      |      |      |      |      |     |
|  | 10   | 100           |                                  |      |      |      |      | 1500 |     |
|  | 10   | 125           |                                  |      |      | 1500 | 1000 | 1000 |     |
|  | 10   | 150           |                                  |      | 1500 | 1000 | 1000 | 750  |     |
|  | 10   | 200           |                                  |      | 1000 | 750  | 500  | 500  |     |
|  | 10   | 225           |                                  | 1500 | 1000 | 750  | 500  | 500  |     |
|  | 20   | 75            |                                  |      |      |      |      |      |     |
|  | 20   | 100           |                                  |      |      |      |      |      |     |
|  | 20   | 125           |                                  |      |      |      |      |      |     |
|  | 20   | 150           |                                  |      |      |      |      | 1500 |     |
|  | 20   | 200           |                                  |      |      |      | 1500 | 1000 |     |
|  | 20   | 225           |                                  |      |      |      | 1500 | 1000 |     |
|  | 30   | 75            |                                  |      |      |      |      |      |     |
|  | 30   | 100           |                                  |      |      |      |      |      |     |
|  | 30   | 125           |                                  |      |      |      |      |      |     |
|  | 30   | 150           |                                  |      |      |      |      |      |     |
|  | 30   | 200           |                                  |      |      |      |      |      |     |
|  | 30   | 225           |                                  |      |      |      |      |      |     |
| 50   | 75   |               |                                  |      |      |      |      |      |     |
| 50   | 100  |               |                                  |      |      |      |      |      |     |
| 50   | 125  |               |                                  |      |      |      |      |      |     |
| 50   | 150  |               |                                  |      |      |      |      |      |     |
| 50   | 200  |               |                                  |      |      |      |      |      |     |
| 50   | 225  |               |                                  |      |      |      |      |      |     |

**Tabell 15.4**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 40   | 0    | 75            |                                  |      |      |      | 1500 | 1500 | 1250 |
|  | 0    | 100           |                                  | 1500 | 1000 | 1000 | 750  | 750  | 750  |
|  | 0    | 125           |                                  | 1000 | 750  | 500  | 500  | 500  | 500  |
|  | 0    | 150           |                                  | 1000 | 500  | 500  | 0    | 0    | 0    |
|  | 0    | 200           | 1500                             | 750  | 500  | 0    | 0    | 0    | 0    |
|  | 0    | 225           | 1250                             | 750  | 500  | 0    | 0    | 0    | 0    |
|  | 10   | 75            |                                  |      |      |      |      |      | 1500 |
|  | 10   | 100           |                                  |      | 1500 | 1250 | 1000 | 1000 | 750  |
|  | 10   | 125           |                                  |      | 1250 | 1000 | 750  | 500  | 500  |
|  | 10   | 150           |                                  |      | 1000 | 750  | 500  | 500  | 0    |
|  | 10   | 200           |                                  | 1500 | 750  | 500  | 500  | 0    | 0    |
|  | 10   | 225           |                                  | 1500 | 750  | 500  | 0    | 0    | 0    |
|  | 20   | 75            |                                  |      |      |      |      |      |      |
|  | 20   | 100           |                                  |      |      |      |      | 1500 | 1250 |
|  | 20   | 125           |                                  |      |      | 1500 | 1000 | 1000 |      |
|  | 20   | 150           |                                  |      |      | 1250 | 1000 | 750  |      |
|  | 20   | 200           |                                  |      | 1500 | 1000 | 750  | 500  |      |
|  | 20   | 225           |                                  |      | 1500 | 1000 | 750  | 500  |      |
|  | 30   | 75            |                                  |      |      |      |      |      |      |
|  | 30   | 100           |                                  |      |      |      |      |      |      |
|  | 30   | 125           |                                  |      |      |      |      |      |      |
|  | 30   | 150           |                                  |      |      |      |      |      |      |
|  | 30   | 200           |                                  |      |      |      |      |      |      |
|  | 30   | 225           |                                  |      |      |      |      |      |      |
| 50   | 75   |               |                                  |      |      |      |      |      |      |
| 50   | 100  |               |                                  |      |      |      |      |      |      |
| 50   | 125  |               |                                  |      |      |      |      |      |      |
| 50   | 150  |               |                                  |      |      |      |      |      |      |
| 50   | 200  |               |                                  |      |      |      |      |      |      |
| 50   | 225  |               |                                  |      |      |      |      |      |      |

## 15. R60, NOVATHERM 1FR OCH 2FR, K-virke, BALK, 1-SID

**Tabell 16.1**

Dimensioneringstabell för ensidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |     |     |     |     |     |
|--|---------------|----------------------------------|------|-----|-----|-----|-----|-----|
|  |               | 75                               | 100  | 125 | 150 | 175 | 200 | 225 |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |     |     |     |     |     |
| 100  | 50            |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 63            |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 70            |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 95            |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 100           |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 125           |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 150           |                                  | 1250 | 750 | 500 | 0   | 0   | 0   |
| 80   | 50            | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 1500                             | 500  | 0   | 0   | 0   | 0   | 0   |
| 60   | 50            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
| 40   | 50            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |

## 16. R60, NOVATHERM 1FR OCH 2FR, K-virke, BALK, 3-SID

**Tabell 17.1**

Dimensioneringstabell för tresidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|---------------|----------------------------------|------|------|------|------|------|------|
|  |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 100  | 50            |                                  |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |
|  | 70            |                                  |      |      |      |      |      |      |
|  | 95            |                                  |      |      |      |      |      |      |
|  | 100           |                                  |      |      |      |      |      |      |
|  | 125           |                                  |      |      |      |      |      |      |
|  | 150           |                                  |      |      |      |      |      |      |
| 80   | 50            |                                  |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |
|  | 70            |                                  |      |      |      |      |      |      |
|  | 95            |                                  |      |      |      |      |      |      |
|  | 100           |                                  |      |      |      |      |      |      |
|  | 125           |                                  |      |      | 1500 | 1250 | 1000 |      |
|  | 150           |                                  | 1500 | 1250 | 1000 | 1000 | 750  |      |
| 60   | 50            |                                  |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |
|  | 70            |                                  |      |      |      |      |      |      |
|  | 95            |                                  |      |      | 1500 | 1250 | 1000 | 1000 |
|  | 100           |                                  |      | 1500 | 1250 | 1000 | 1000 | 1000 |
|  | 125           |                                  | 1250 | 1000 | 750  | 750  | 500  | 500  |
|  | 150           |                                  | 1000 | 750  | 500  | 500  | 500  | 500  |
| 40   | 50            |                                  |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |
|  | 70            |                                  |      |      | 1500 | 1500 | 1500 |      |
|  | 95            | 1500                             | 1000 | 1000 | 750  | 750  | 750  | 500  |
|  | 100           | 1500                             | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 125           | 1000                             | 750  | 500  | 500  | 0    | 0    | 0    |
|  | 150           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    |

## 17. R60, NOVATHERM 1FR OCH 2FR, K-virke, BALK, 4-SID

**Tabell 18.1**

Dimensioneringstabell för firsidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R60. Brandskyddsfärg Novatherm 1FR och 2FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |     |     |     |     |     |     |      |      |      |      |     |  |
|--|---------------|----------------------------------|-----|-----|-----|-----|-----|-----|------|------|------|------|-----|--|
|  |               | 75                               | 100 | 125 | 150 | 175 | 200 | 225 |      |      |      |      |     |  |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |     |     |     |     |     |     |      |      |      |      |     |  |
| 100  | 50            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 63            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 70            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 95            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 100           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 125           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 150           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
| 80   | 50            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 63            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 70            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 95            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 100           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 125           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 150           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
| 60   | 50            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 63            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 70            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 95            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 100           |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 125           |                                  |     |     |     |     |     |     | 1500 | 1000 |      |      |     |  |
|  | 150           |                                  |     |     |     |     |     |     | 1250 | 1000 | 1000 |      |     |  |
| 40   | 50            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 63            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 70            |                                  |     |     |     |     |     |     |      |      |      |      |     |  |
|  | 95            |                                  |     |     |     |     |     |     | 1500 | 1250 | 1000 | 1000 |     |  |
|  | 100           |                                  |     |     |     |     |     |     | 1500 | 1000 | 1000 | 1000 |     |  |
|  | 125           |                                  |     |     |     |     |     |     | 1500 | 1000 | 750  | 750  | 500 |  |
|  | 150           |                                  |     |     |     |     |     |     | 1250 | 750  | 750  | 500  | 500 |  |

## 18. R60, NOVATHERM 4FR, L-TRÄ, PELARE

**Tabell 19.1**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |      |      |      |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | 0    | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 115           |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 140           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 165           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
|  | 0    | 190           | 3000                             | 3000 | 3000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 |
|  | 0    | 215           | 3000                             | 3000 | 2000 | 2000 | 1750 | 1750 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1000 |      |      |
| 10   | 90   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 |
|  | 10   | 115           |                                  |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 10   | 140           |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 10   | 165           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
|  | 10   | 190           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1500 |
|  | 10   | 215           | 3000                             | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 |      |      |
| 20   | 90   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 115           |                                  |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 140           |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 165           |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 190           |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 |
|  | 20   | 215           |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
| 30   | 90   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 115           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 140           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 | 3000 |
|  | 30   | 165           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 | 3000 |
|  | 30   | 190           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 | 3000 |
|  | 30   | 215           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 | 3000 |
| 50   | 90   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 50   | 115           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 50   | 140           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 |
|  | 50   | 165           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 |
|  | 50   | 190           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 |
|  | 50   | 215           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 |

**Tabell 19.2**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 80   | 0    | 90            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 115           | 3000                             | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |
|  | 0    | 140           | 3000                             | 2000 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
|  | 0    | 165           | 2000                             | 1750 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
|  | 0    | 190           | 1750                             | 1500 | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 0    |
|  | 0    | 215           | 1500                             | 1250 | 1000 | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 90            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 10   | 115           | 3000                             | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 |
|  | 10   | 140           | 3000                             | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 |
|  | 10   | 165           | 3000                             | 2000 | 1750 | 1750 | 1500 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  |
|  | 10   | 190           | 3000                             | 1750 | 1500 | 1250 | 1250 | 1000 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  |
|  | 10   | 215           | 2000                             | 1750 | 1500 | 1250 | 1000 | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 90            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 115           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 |
|  | 20   | 140           | 3000                             | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1500 | 1500 |
|  | 20   | 165           | 3000                             | 3000 | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1000 |
|  | 20   | 190           | 3000                             | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  |
|  | 20   | 215           | 3000                             | 3000 | 3000 | 1750 | 1750 | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  |
|  | 30   | 90            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 30   | 115           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 30   | 140           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 30   | 165           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 |
|  | 30   | 190           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 |
|  | 30   | 215           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1500 |
| 50   | 90   | 3000          | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |      |
| 50   | 115  | 3000          | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |      |
| 50   | 140  | 3000          | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |      |
| 50   | 165  | 3000          | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 |      |
| 50   | 190  | 3000          | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 |      |
| 50   | 215  | 3000          | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 |      |

**Tabell 19.3**

Dimensioneringstabell för firsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 60   | 0    | 90            | 3000                             | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |      |
|  | 0    | 115           | 1750                             | 1500 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |      |
|  | 0    | 140           | 1250                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 0    | 165           | 1000                             | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 0    | 190           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 0    | 215           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 10   | 90            | 3000                             | 3000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 |      |
|  | 10   | 115           | 2000                             | 1750 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |      |
|  | 10   | 140           | 1750                             | 1500 | 1250 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |      |
|  | 10   | 165           | 1500                             | 1000 | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 10   | 190           | 1250                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 10   | 215           | 1250                             | 750  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 20   | 90            | 3000                             | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 |
|  | 20   | 115           | 3000                             | 3000 | 2000 | 2000 | 1750 | 1750 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |      |
|  | 20   | 140           | 3000                             | 2000 | 1750 | 1500 | 1250 | 1250 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  |      |
|  | 20   | 165           | 3000                             | 2000 | 1500 | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    |      |
|  | 20   | 190           | 3000                             | 1750 | 1500 | 1000 | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 20   | 215           | 3000                             | 1750 | 1250 | 1000 | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |
|  | 30   | 90            |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |      |
|  | 30   | 115           |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 1750 | 1750 |      |
|  | 30   | 140           |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1500 | 1500 |      |
|  | 30   | 165           |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1500 | 1500 | 1250 | 1250 |      |
|  | 30   | 190           |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 | 1500 | 1250 | 1000 | 1000 |      |
|  | 30   | 215           |                                  |      |      |      | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1500 | 1250 | 1000 | 1000 | 750  |      |
| 50   | 90   |               |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |      |      |
| 50   | 115  |               |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 1750 |      |      |
| 50   | 140  |               |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1500 |      |      |
| 50   | 165  |               |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1500 | 1250 |      |      |
| 50   | 190  |               |                                  |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 | 1500 | 1250 | 1000 |      |      |
| 50   | 215  |               |                                  |      |      |      | 3000 | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 | 1250 | 1250 | 1000 |      |      |

**Tabell 19.4**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av limträ med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 40   | 0    | 90            | 1500                             | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 0    | 115           | 750                              | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 140           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 0    | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 90            | 1750                             | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|  | 10   | 115           | 1250                             | 1000 | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 10   | 140           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 165           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 10   | 215           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 90            | 3000                             | 2000 | 1750 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 |
|  | 20   | 115           | 2000                             | 1500 | 1250 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|  | 20   | 140           | 1750                             | 1250 | 1000 | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 165           | 1500                             | 1000 | 750  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 190           | 1500                             | 1000 | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 20   | 215           | 1500                             | 750  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|  | 30   | 90            |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 |
|  | 30   | 115           |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 | 1000 | 750  |
|  | 30   | 140           |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 500  | 500  | 500  |
|  | 30   | 165           |                                  | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  | 0    | 0    |
|  | 30   | 190           |                                  | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 | 750  | 500  | 500  | 0    | 0    | 0    | 0    |
|  | 30   | 215           |                                  | 3000 | 3000 | 2000 | 1750 | 1500 | 1000 | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
| 50   | 90   |               |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1500 | 1500 |      |
| 50   | 115  |               |                                  | 3000 | 3000 | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 | 1500 | 1250 | 1250 | 1000 | 1000 |      |
| 50   | 140  |               |                                  | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 500  |      |
| 50   | 165  |               |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 | 1000 | 750  | 500  | 500  | 0    |      |
| 50   | 190  |               |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 | 750  | 500  | 500  | 0    | 0    |      |
| 50   | 215  |               |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1250 | 1000 | 750  | 500  | 500  | 500  | 0    | 0    |      |

## 19. R60, NOVATHERM 4FR, L-TRÄ, BALK, 1-SID

Ingen brandskyddsfärg erfordras.

## 20. R60, NOVATHERM 4FR, L-TRÄ, BALK, 3-SID

**Tabell 21.1**

Dimensioneringstabell för tresidigt brandpåverkade limträbalkar.  
Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnytt-<br>jandegrad | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                          |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |      |
| Vanligt fall<br>[%]      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100                      | 115           | 3000                             | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 |
|                          | 140           | 2000                             | 1750 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|                          | 165           | 1750                             | 1250 | 1250 | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|                          | 190           | 1500                             | 1000 | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 1250                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 80                       | 115           | 1750                             | 1500 | 1250 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 | 1000 |
|                          | 140           | 1250                             | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|                          | 165           | 750                              | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 60                       | 115           | 1000                             | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  | 500  |
|                          | 140           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 40                       | 90            | 1000                             | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 500  | 500  | 500  |
|                          | 115           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 140           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 165           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|                          | 190           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 215                      | 0             | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |      |

## 21. R60, NOVATHERM 4FR, L-TRÄ, BALK, 4-SID

**Tabell 22.1**

Dimensioneringstabell för fyrsidigt brandpåverkade limträbalkar.  
Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnytt-<br>jandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|   |               | 180                              | 225  | 270  | 315  | 360  | 405  | 450  | 495  | 540  | 585  | 630  | 675  | 720  | 765  | 810  |
|   |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100   | 90            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|   | 115           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 | 1750 |
|   | 140           | 3000                             | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 |
|   | 165           | 3000                             | 3000 | 2000 | 1750 | 1750 | 1500 | 1250 | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  |
|   | 190           | 3000                             | 3000 | 1750 | 1500 | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 500  |
|   | 215           | 3000                             | 2000 | 1750 | 1500 | 1250 | 1000 | 750  | 500  | 500  | 500  | 500  | 500  | 500  | 0    | 0    |
| 80  | 90            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 2000 | 1750 | 1750 |
|   | 115           | 3000                             | 3000 | 2000 | 1750 | 1750 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 | 1250 |
|   | 140           | 3000                             | 1750 | 1500 | 1500 | 1250 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 500  | 500  | 500  | 500  |
|   | 165           | 2000                             | 1750 | 1250 | 1000 | 750  | 750  | 500  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    |
|   | 190           | 2000                             | 1500 | 1000 | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 215           | 1750                             | 1250 | 1000 | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 60  | 90            | 3000                             | 2000 | 1750 | 1750 | 1750 | 1500 | 1500 | 1500 | 1500 | 1500 | 1250 | 1250 | 1250 | 1250 | 1250 |
|   | 115           | 1750                             | 1500 | 1250 | 1000 | 1000 | 750  | 750  | 750  | 750  | 500  | 500  | 500  | 500  | 500  | 500  |
|   | 140           | 1500                             | 1250 | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 165           | 1250                             | 750  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 190           | 1250                             | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 215           | 1000                             | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
| 40  | 90            | 1500                             | 1250 | 1250 | 1000 | 1000 | 1000 | 1000 | 750  | 750  | 750  | 750  | 750  | 750  | 750  | 750  |
|   | 115           | 1000                             | 750  | 500  | 500  | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 140           | 750                              | 500  | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 165           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 190           | 500                              | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |
|   | 215           | 0                                | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    | 0    |

## 22. R60, NOVATHERM 4FR, K-VIRKE, PELARE

**Tabell 23.1**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |      |      |      |      |      |      |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | 0    | 75            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 0    | 100           |                                  |      |      |      |      |      |      |      |      |      | 3000 | 3000 | 3000 |
|  | 0    | 125           |                                  |      |      |      |      |      |      |      |      |      |      |      | 3000 |
|  | 0    | 150           |                                  |      |      |      |      |      |      |      | 3000 | 3000 |      |      | 3000 |
|  | 0    | 200           |                                  |      |      |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 |
|  | 0    | 225           |                                  |      |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 2000 | 1750 |
|  | 10   | 75            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 10   | 100           |                                  |      |      | 3000 | 3000 | 3000 |      |      |      |      |      |      |      |
|  | 10   | 125           |                                  |      |      |      |      | 3000 | 3000 |      |      |      |      |      |      |
|  | 10   | 150           |                                  | 3000 | 3000 |      |      | 3000 | 3000 |      |      |      |      |      |      |
|  | 10   | 200           |                                  | 3000 | 3000 | 3000 | 3000 |      |      |      |      |      |      |      |      |
|  | 10   | 225           | 3000                             | 3000 | 3000 | 3000 | 3000 |      |      |      |      |      |      |      |      |
|  | 20   | 75            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 100           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 125           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 150           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 20   | 200           |                                  |      |      |      |      |      |      |      |      |      |      | 3000 | 3000 |
|  | 20   | 225           |                                  |      |      |      |      |      |      | 3000 | 3000 |      |      |      |      |
|  | 30   | 75            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 100           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 125           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 150           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 200           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 30   | 225           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 50   | 75            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 50   | 100           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 50   | 125           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 50   | 150           |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 200  |               |                                  |      |      |      |      |      |      |      |      |      |      |      |      |
| 50   | 225  |               |                                  |      |      |      |      |      |      |      |      |      |      |      |      |

**Tabell 23.2**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 80   | 0    | 75            |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 100           |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 125           | 3000                             | 3000 | 3000 | 3000 | 2000 | 2000 | 2000 |
|  | 0    | 150           | 3000                             | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 |
|  | 0    | 200           | 3000                             | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 |
|  | 0    | 225           | 3000                             | 3000 | 2000 | 1500 | 1250 | 1000 | 750  |
|  | 10   | 75            |                                  |      |      |      | 3000 | 3000 | 3000 |
|  | 10   | 100           |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 10   | 125           |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 10   | 150           |                                  | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 |
|  | 10   | 200           |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 |
|  | 10   | 225           |                                  | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 |
|  | 20   | 75            |                                  |      |      |      |      |      |      |
|  | 20   | 100           |                                  |      |      |      |      | 3000 | 3000 |
|  | 20   | 125           |                                  |      |      | 3000 | 3000 | 3000 |      |
|  | 20   | 150           |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 200           |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 225           |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 30   | 75            |                                  |      |      |      |      |      |      |
|  | 30   | 100           |                                  |      |      |      |      |      |      |
|  | 30   | 125           |                                  |      |      |      |      |      |      |
|  | 30   | 150           |                                  |      |      |      |      |      |      |
|  | 30   | 200           |                                  |      |      |      |      |      |      |
|  | 30   | 225           |                                  |      |      |      |      |      |      |
| 50   | 75   |               |                                  |      |      |      |      |      |      |
| 50   | 100  |               |                                  |      |      |      |      |      |      |
| 50   | 125  |               |                                  |      |      |      |      |      |      |
| 50   | 150  |               |                                  |      |      |      |      |      |      |
| 50   | 200  |               |                                  |      |      |      |      |      |      |
| 50   | 225  |               |                                  |      |      |      |      |      |      |

**Tabell 23.3**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 60   | 0    | 75            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 0    | 100           | 3000                             | 3000 | 3000 | 2000 | 1750 | 1750 | 1750 |
|  | 0    | 125           | 3000                             | 3000 | 1750 | 1500 | 1250 | 1250 | 1000 |
|  | 0    | 150           | 3000                             | 2000 | 1500 | 1250 | 1000 | 750  | 500  |
|  | 0    | 200           | 3000                             | 1750 | 1250 | 750  | 500  | 0    | 0    |
|  | 0    | 225           | 3000                             | 1750 | 1000 | 500  | 500  | 0    | 0    |
|  | 10   | 75            |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 10   | 100           |                                  | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 |
|  | 10   | 125           | 3000                             | 3000 | 3000 | 2000 | 1750 | 1500 | 1500 |
|  | 10   | 150           | 3000                             | 3000 | 2000 | 1750 | 1500 | 1250 | 1000 |
|  | 10   | 200           | 3000                             | 3000 | 2000 | 1500 | 1000 | 750  | 500  |
|  | 10   | 225           | 3000                             | 3000 | 1750 | 1500 | 1000 | 750  | 500  |
|  | 20   | 75            |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 100           |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 20   | 125           |                                  |      |      | 3000 | 3000 | 3000 | 2000 |
|  | 20   | 150           |                                  |      |      | 3000 | 3000 | 2000 | 1750 |
|  | 20   | 200           |                                  |      |      | 3000 | 3000 | 2000 | 1750 |
|  | 20   | 225           |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1500 |
|  | 30   | 75            |                                  |      |      |      |      |      |      |
|  | 30   | 100           |                                  |      |      |      |      |      |      |
|  | 30   | 125           |                                  |      |      |      |      |      |      |
|  | 30   | 150           |                                  |      |      |      |      |      |      |
|  | 30   | 200           |                                  |      |      |      |      |      | 3000 |
|  | 30   | 225           |                                  |      |      |      |      |      | 3000 |
| 50   | 75   |               |                                  |      |      |      |      |      |      |
| 50   | 100  |               |                                  |      |      |      |      |      |      |
| 50   | 125  |               |                                  |      |      |      |      |      |      |
| 50   | 150  |               |                                  |      |      |      |      |      |      |
| 50   | 200  |               |                                  |      |      |      |      |      |      |
| 50   | 225  |               |                                  |      |      |      |      |      |      |

**Tabell 23.4**

Dimensioneringstabell för fyrsidigt brandpåverkade pelare av konstruktionsvirke med centrisk last och knäckning i höjdriktningen. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | lc/h | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|------|---------------|----------------------------------|------|------|------|------|------|------|
|  |      |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |      |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 40   | 0    | 75            | 3000                             | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 |
|  | 0    | 100           | 3000                             | 1750 | 1500 | 1250 | 1000 | 1000 | 1000 |
|  | 0    | 125           | 2000                             | 1500 | 1000 | 750  | 500  | 500  | 500  |
|  | 0    | 150           | 2000                             | 1250 | 750  | 500  | 0    | 0    | 0    |
|  | 0    | 200           | 1750                             | 1000 | 500  | 0    | 0    | 0    | 0    |
|  | 0    | 225           | 1750                             | 1000 | 500  | 0    | 0    | 0    | 0    |
|  | 10   | 75            | 3000                             | 3000 | 3000 | 2000 | 2000 | 2000 | 1750 |
|  | 10   | 100           | 3000                             | 3000 | 1750 | 1500 | 1500 | 1250 | 1000 |
|  | 10   | 125           | 3000                             | 2000 | 1500 | 1250 | 1000 | 750  | 500  |
|  | 10   | 150           | 3000                             | 2000 | 1500 | 1000 | 500  | 500  | 0    |
|  | 10   | 200           | 3000                             | 1750 | 1250 | 750  | 500  | 0    | 0    |
|  | 10   | 225           | 3000                             | 1750 | 1000 | 500  | 0    | 0    | 0    |
|  | 20   | 75            |                                  | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 |
|  | 20   | 100           |                                  | 3000 | 3000 | 3000 | 2000 | 1750 | 1750 |
|  | 20   | 125           |                                  | 3000 | 3000 | 2000 | 1750 | 1500 | 1250 |
|  | 20   | 150           |                                  | 3000 | 3000 | 2000 | 1750 | 1250 | 1000 |
|  | 20   | 200           |                                  | 3000 | 3000 | 1750 | 1500 | 1000 | 750  |
|  | 20   | 225           |                                  | 3000 | 3000 | 1750 | 1500 | 1000 | 750  |
|  | 30   | 75            |                                  |      |      |      |      |      | 3000 |
|  | 30   | 100           |                                  |      |      |      |      | 3000 | 3000 |
|  | 30   | 125           |                                  |      |      |      |      | 3000 | 3000 |
|  | 30   | 150           |                                  |      |      |      |      | 3000 | 3000 |
|  | 30   | 200           |                                  |      |      |      |      | 3000 | 3000 |
|  | 30   | 225           |                                  |      |      |      |      | 3000 | 3000 |
| 50   | 75   |               |                                  |      |      |      |      |      |      |
| 50   | 100  |               |                                  |      |      |      |      | 3000 |      |
| 50   | 125  |               |                                  |      |      |      |      | 3000 |      |
| 50   | 150  |               |                                  |      |      |      | 3000 | 3000 |      |
| 50   | 200  |               |                                  |      |      |      | 3000 | 3000 |      |
| 50   | 225  |               |                                  |      |      |      | 3000 | 3000 |      |

## 23. R60, NOVATHERM 4FR, K-VIRKE, BALK, 1-SID

**Tabell 24.1**

Dimensioneringstabell för ensidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |     |     |     |     |     |
|--|---------------|----------------------------------|------|-----|-----|-----|-----|-----|
|  |               | 75                               | 100  | 125 | 150 | 175 | 200 | 225 |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |     |     |     |     |     |
| 100  | 50            | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 63            | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 70            | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 95            | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 100           | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 125           | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
|  | 150           | 1750                             | 1250 | 750 | 500 | 0   | 0   | 0   |
| 80   | 50            | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 1250                             | 500  | 0   | 0   | 0   | 0   | 0   |
| 60   | 50            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 750                              | 0    | 0   | 0   | 0   | 0   | 0   |
| 40   | 50            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 63            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 70            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 95            | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 100           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 125           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |
|  | 150           | 0                                | 0    | 0   | 0   | 0   | 0   | 0   |

## 24. R60, NOVATHERM 4FR, K-VIRKE, BALK, 3-SID

**Tabell 25.1**

Dimensioneringstabell för tresidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--|---------------|----------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|  |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |      |      |      |      |      |      |      |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |      |      |      |      |      |      |      |
| 100  | 50            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 70            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 95            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 100           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 |      |      |      |      |      |      |      |      |
|  | 125           | 3000                             | 3000 | 3000 | 3000 | 2000 | 2000 | 1750 |      |      |      |      |      |      |      |
|  | 150           | 3000                             | 3000 | 2000 | 2000 | 1750 | 1750 | 1500 |      |      |      |      |      |      |      |
| 80   | 50            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 70            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 95            |                                  |      |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 100           | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 |      |      |      |      |      |      |      |
|  | 125           | 3000                             | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 |      |      |      |      |      |      |      |
|  | 150           | 3000                             | 1750 | 1500 | 1250 | 1250 | 1000 | 1000 |      |      |      |      |      |      |      |
| 60   | 50            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 70            |                                  |      |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 95            |                                  |      |      |      |      |      |      | 3000 | 3000 | 2000 | 1750 | 1750 | 1500 | 1500 |
|  | 100           | 3000                             | 2000 | 1750 | 1750 | 1500 | 1500 | 1500 |      |      |      |      |      |      |      |
|  | 125           | 3000                             | 1750 | 1500 | 1250 | 1000 | 750  | 750  |      |      |      |      |      |      |      |
|  | 150           | 2000                             | 1500 | 1000 | 750  | 500  | 500  | 500  |      |      |      |      |      |      |      |
| 40   | 50            |                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |
|  | 63            |                                  |      |      |      |      |      |      | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 | 2000 |
|  | 70            |                                  |      |      |      |      |      |      | 3000 | 3000 | 2000 | 2000 | 1750 | 1750 | 1750 |
|  | 95            |                                  |      |      |      |      |      |      | 1750 | 1500 | 1250 | 1000 | 1000 | 1000 | 750  |
|  | 100           | 1750                             | 1500 | 1250 | 1000 | 750  | 750  | 750  |      |      |      |      |      |      |      |
|  | 125           | 1500                             | 1000 | 500  | 500  | 0    | 0    | 0    |      |      |      |      |      |      |      |
|  | 150           | 1250                             | 500  | 0    | 0    | 0    | 0    | 0    |      |      |      |      |      |      |      |

## 25. R60, NOVATHERM 4FR, K-VIRKE, BALK, 4-SID

**Tabell 26.1**

Dimensioneringstabell för tresidigt brandpåverkade balkar av konstruktionsvirke. Brandteknisk klass R60. Brandskyddsfärg Novatherm 4FR.

| Lastutnyttjandegrad<br>Vanligt fall<br>[%] | Bredd<br>[mm] | Höjd<br>[mm]                     |      |      |      |      |      |      |
|--|---------------|----------------------------------|------|------|------|------|------|------|
|  |               | 75                               | 100  | 125  | 150  | 175  | 200  | 225  |
|  |               | Färgmängd<br>[g/m <sup>2</sup> ] |      |      |      |      |      |      |
| 100  | 125           |                                  |      |      |      |      | 3000 | 3000 |
|  | 150           |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
| 80   | 95            |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 100           |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 125           |                                  |      | 3000 | 3000 | 3000 | 3000 | 3000 |
|  | 150           |                                  |      | 3000 | 3000 | 3000 | 3000 | 2000 |
| 60   | 70            |                                  |      |      | 3000 | 3000 | 3000 | 3000 |
|  | 95            |                                  |      | 3000 | 3000 | 3000 | 3000 | 2000 |
|  | 100           |                                  |      | 3000 | 3000 | 3000 | 2000 | 2000 |
|  | 125           |                                  |      | 3000 | 3000 | 3000 | 2000 | 1750 |
|  | 150           |                                  |      | 3000 | 3000 | 2000 | 1750 | 1500 |
| 40   | 70            | 3000                             | 3000 | 3000 | 3000 | 3000 | 3000 | 2000 |
|  | 95            | 3000                             | 3000 | 3000 | 1750 | 1750 | 1500 | 1500 |
|  | 100           | 3000                             | 3000 | 2000 | 1750 | 1500 | 1500 | 1250 |
|  | 125           | 3000                             | 3000 | 1750 | 1500 | 1250 | 1000 | 750  |
|  | 150           | 3000                             | 3000 | 1750 | 1250 | 1000 | 500  | 500  |