

ALT 1: Bjelke/søyle i limtre og trä8-elementer som dekke

[>

Laster

Egenvekt dekke $\left(\frac{kN}{m^2} \right)$

$$Egenvekt dekke \left(\frac{kN}{m^2} \right) \quad (1.1.1)$$

[> $ev := 3.0$

$$ev := 3.0 \quad (1.1.2)$$

Egenvekt limtre dim 140x566

[> $lt := 4.7 \cdot 0.14 \cdot 0.566$

$$lt := 0.372428 \quad (1.1.3)$$

Nyttelast (kN/m²)

[> $nl := 2.0$

$$nl := 2.0 \quad (1.1.4)$$

Snølast (kN/m²)

[> $sl := 3.5 \cdot 0.8$

$$sl := 2.80 \quad (1.1.5)$$

Vindlast (kN/m²)

[> $vl := 0.14$

$$vl := 0.14 \quad (1.1.6)$$

Egenvekt tak (kN/m²)

[> $evt := 0.46$

$$evt := 0.46 \quad (1.1.7)$$

Akse 1

Lastbredde påført akse

$$Lastbredde påført akse \quad (1.2.1)$$

Lastbredde påført akse (D-G)

[> $lb1g := 2.685 + \frac{0.370}{2}$

$$lb1g := 2.870000000 \quad (1.2.1.1)$$

Egenvekt

[> $ev1g := 1.2 \cdot ev \cdot lb1g + 1.2 \cdot lt$

$$ev1g := 10.77891360 \quad (1.2.2.1)$$

Nyttelast

[> $nl1g := 1.5 \cdot nl \cdot lb1g$

$$nl1g := 8.610000000 \quad (1.2.3.1)$$

▼	Snølast		
	[> $slg := 1.5 \cdot sl \cdot lbg$	$slg := 12.05400000$	(1.2.4.1)
▼	Vindlast		
	[> $vlg := 1.5 \cdot 0.6 \cdot vl \cdot lbg$	$vlg := 0.3616200000$	(1.2.5.1)
▼	Egenvekt tak		
	[> $evlg := 1.2 \cdot evt \cdot lbg + 1.2 \cdot lt$	$evlg := 2.031153600$	(1.2.6.1)
▼	Lastbredde påført akse (G-I)		
	[> $lbli := 3.782 + \frac{0.37}{2}$	$lbli := 3.967000000$	(1.2.7.1)
▼	Egenvekt		
	[> $evli := 1.2 \cdot ev \cdot lbli + 1.2 \cdot lt$	$evli := 14.72811360$	(1.2.8.1)
▼	Nyttelast		
	[> $nlli := 1.5 \cdot nl \cdot lbli$	$nlli := 11.90100000$	(1.2.9.1)
▼	Snølast		
	[> $slli := 1.5 \cdot sl \cdot lbli$	$slli := 16.66140000$	(1.2.10.1)
▼	Vindlast		
	[> $vlli := 1.5 \cdot 0.6 \cdot vl \cdot lbli$	$vlli := 0.4998420000$	(1.2.11.1)
▼	Egenvekt tak		
	[> $evtli := 1.2 \cdot evt \cdot lbli + 1.2 \cdot lt$	$evtli := 2.636697600$	(1.2.12.1)

▼	Akse 2		
	<i>Lastbredde påført akse</i>	<i>Lastbredde påført akse</i>	(1.3.1)

▼ **Lastbredde påført akse (D-G)**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } lb2 := 7.045 \end{array} \right. \quad \quad \quad lb2 := 7.045 \quad \quad \quad (1.3.1.1) \end{array}$$

▼ **Egenvekt**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } ev2 := 1.2 \cdot ev \cdot lb2 + 1.2 \cdot lt \end{array} \right. \quad \quad \quad ev2 := 25.8089136 \quad \quad \quad (1.3.2.1) \end{array}$$

▼ **Nyttelast**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } nl2 := 1.5 \cdot nl \cdot lb2 \end{array} \right. \quad \quad \quad nl2 := 21.13500 \quad \quad \quad (1.3.3.1) \end{array}$$

▼ **Snølast**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } sl2 := 1.5 \cdot sl \cdot lb2 \end{array} \right. \quad \quad \quad sl2 := 29.589000 \quad \quad \quad (1.3.4.1) \end{array}$$

▼ **Vindlast**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } vl2 := 1.5 \cdot 0.6 \cdot vl \cdot lb2 \end{array} \right. \quad \quad \quad vl2 := 0.8876700 \quad \quad \quad (1.3.5.1) \end{array}$$

▼ **Egenvekt tak**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } evt2 := 1.2 \cdot evt \cdot lb2 + 1.2 \cdot lt \end{array} \right. \quad \quad \quad evt2 := 4.3357536 \quad \quad \quad (1.3.6.1) \end{array}$$

▼ **Akse 3**

Lastbredde påført akse

$$\quad \quad \quad \text{Lastbredde påført akse} \quad \quad \quad (1.4.1)$$

▼ **Lastbredde påført akse (G-H)**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } lb3 := 6.752 \end{array} \right. \quad \quad \quad lb3 := 6.752 \quad \quad \quad (1.4.1.1) \end{array}$$

▼ **Egenvekt**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } ev3 := 1.2 \cdot ev \cdot lb3 + 1.2 \cdot lt \end{array} \right. \quad \quad \quad ev3 := 24.7541136 \quad \quad \quad (1.4.2.1) \end{array}$$

▼ **Nyttelast**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } nl3 := 1.5 \cdot nl \cdot lb3 \end{array} \right. \quad \quad \quad nl3 := 20.25600 \quad \quad \quad (1.4.3.1) \end{array}$$

▼ **Snølast**

$$\begin{array}{l} \left[\begin{array}{l} \text{> } sl3 := 1.5 \cdot sl \cdot lb3 \end{array} \right. \end{array}$$

		$sl3 := 28.358400$	(1.4.4.1)
	Vindlast		
	$\left[\begin{array}{l} > vl3 := 1.5 \cdot 0.6 \cdot vl \cdot lb3 \end{array} \right]$	$vl3 := 0.8507520$	(1.4.5.1)
	Egenvekt tak		
	$\left[\begin{array}{l} > evt3 := 1.2 \cdot evt \cdot lb3 + 1.2 \cdot lt \end{array} \right]$	$evt3 := 4.1740176$	(1.4.6.1)
	Akse 4		
	<i>Lastbredde påført akse</i>	<i>Lastbredde påført akse</i>	(1.5.1)
	Lastbredde påført akse (G-H)		
	$\left[\begin{array}{l} > lb4 := 6.592 \end{array} \right]$	$lb4 := 6.592$	(1.5.1.1)
	Egenvekt		
	$\left[\begin{array}{l} > ev4 := 1.2 \cdot ev \cdot lb4 + 1.2 \cdot lt \end{array} \right]$	$ev4 := 24.1781136$	(1.5.2.1)
	Nyttelast		
	$\left[\begin{array}{l} > nl4 := 1.5 \cdot nl \cdot lb4 \end{array} \right]$	$nl4 := 19.77600$	(1.5.3.1)
	Snølast		
	$\left[\begin{array}{l} > sl4 := 1.5 \cdot sl \cdot lb4 \end{array} \right]$	$sl4 := 27.686400$	(1.5.4.1)
	Vindlast		
	$\left[\begin{array}{l} > vl4 := 1.5 \cdot 0.6 \cdot vl \cdot lb4 \end{array} \right]$	$vl4 := 0.8305920$	(1.5.5.1)
	Egenvekt tak		
	$\left[\begin{array}{l} > evt4 := 1.2 \cdot evt \cdot lb4 + 1.2 \cdot lt \end{array} \right]$	$evt4 := 4.0856976$	(1.5.6.1)
	Akse 5		
	<i>Lastbredde påført akse</i>		

Lastbredde påført akse (1.6.1)

▼ **Lastbredde påført akse (D-G)**

$$\begin{array}{l} \left[\begin{array}{l} > lb5 := 7.69 \end{array} \right. \quad lb5 := 7.69 \end{array} \quad (1.6.1.1)$$

▼ **Egenvekt**

$$\begin{array}{l} \left[\begin{array}{l} > ev5 := 1.2 \cdot ev \cdot lb5 + 1.2 \cdot lt \end{array} \right. \quad ev5 := 28.1309136 \end{array} \quad (1.6.2.1)$$

▼ **Nyttelast**

$$\begin{array}{l} \left[\begin{array}{l} > nl5 := 1.5 \cdot nl \cdot lb5 \end{array} \right. \quad nl5 := 23.0700 \end{array} \quad (1.6.3.1)$$

▼ **Snølast**

$$\begin{array}{l} \left[\begin{array}{l} > sl5 := 1.5 \cdot sl \cdot lb5 \end{array} \right. \quad sl5 := 32.29800 \end{array} \quad (1.6.4.1)$$

▼ **Vindlast**

$$\begin{array}{l} \left[\begin{array}{l} > vl5 := 1.5 \cdot 0.6 \cdot vl \cdot lb5 \end{array} \right. \quad vl5 := 0.968940 \end{array} \quad (1.6.5.1)$$

▼ **Egenvekt tak**

$$\begin{array}{l} \left[\begin{array}{l} > evt5 := 1.2 \cdot evt \cdot lb5 + 1.2 \cdot lt \end{array} \right. \quad evt5 := 4.6917936 \end{array} \quad (1.6.6.1)$$

▼ **Akse 7**

Lastbredde påført akse

Lastbredde påført akse (1.7.1)

▼ **Lastbredde påført akse (D-G)**

$$\begin{array}{l} \left[\begin{array}{l} > lb7g := 7.45 \end{array} \right. \quad lb7g := 7.45 \end{array} \quad (1.7.1.1)$$

▼ **Egenvekt**

$$\begin{array}{l} \left[\begin{array}{l} > ev7g := 1.2 \cdot ev \cdot lb7g + 1.2 \cdot lt \end{array} \right. \quad ev7g := 27.2669136 \end{array} \quad (1.7.2.1)$$

▼ **Nyttelast**

$$\begin{array}{l} \left[\begin{array}{l} > nl7g := 1.5 \cdot nl \cdot lb7g \end{array} \right. \quad nl7g := 22.3500 \end{array} \quad (1.7.3.1)$$

▼	Snølast	$\left[\begin{array}{l} > \text{sl7g} := 1.5 \cdot \text{sl} \cdot \text{lb7g} \end{array} \right]$	$\text{sl7g} := 31.29000$	(1.7.4.1)
▼	Vindlast	$\left[\begin{array}{l} > \text{vl7g} := 1.5 \cdot 0.6 \cdot \text{vl} \cdot \text{lb7g} \end{array} \right]$	$\text{vl7g} := 0.938700$	(1.7.5.1)
▼	Egenvekt tak	$\left[\begin{array}{l} > \text{evt7g} := 1.2 \cdot \text{evt} \cdot \text{lb7g} + 1.2 \cdot \text{lt} \end{array} \right]$	$\text{evt7g} := 4.5593136$	(1.7.6.1)
▼	Lastbredde påført akse (G-H)	$\left[\begin{array}{l} > \text{lb7h} := 7.753 \end{array} \right]$	$\text{lb7h} := 7.753$	(1.7.7.1)
▼	Egenvekt	$\left[\begin{array}{l} > \text{ev7h} := 1.2 \cdot \text{ev} \cdot \text{lb7h} + 1.2 \cdot \text{lt} \end{array} \right]$	$\text{ev7h} := 28.3577136$	(1.7.8.1)
▼	Nyttelast	$\left[\begin{array}{l} > \text{nl7h} := 1.5 \text{ nl} \cdot \text{lb7h} \end{array} \right]$	$\text{nl7h} := 23.25900$	(1.7.9.1)
▼	Snølast	$\left[\begin{array}{l} > \text{sl7h} := 1.5 \cdot \text{sl} \cdot \text{lb7h} \end{array} \right]$	$\text{sl7h} := 32.562600$	(1.7.10.1)
▼	Vindlast	$\left[\begin{array}{l} > \text{vl7h} := 1.5 \cdot 0.6 \cdot \text{vl} \cdot \text{lb7h} \end{array} \right]$	$\text{vl7h} := 0.9768780$	(1.7.11.1)
▼	Egenvekt tak	$\left[\begin{array}{l} > \text{evt7h} := 1.2 \text{ evt} \cdot \text{lb7h} + 1.2 \cdot \text{lt} \end{array} \right]$	$\text{evt7h} := 4.7265696$	(1.7.12.1)
▼	Lastbredde påført akse (H-I)	$\left[\begin{array}{l} > \text{lb7i} := 4.917 \end{array} \right]$	$\text{lb7i} := 4.917$	(1.7.13.1)
▼	Egenvekt	$\left[\begin{array}{l} > \text{ev7i} := 1.2 \cdot \text{ev} \cdot \text{lb7i} + 1.2 \cdot \text{lt} \end{array} \right]$	$\text{ev7i} := 18.1481136$	(1.7.14.1)

▼	Nyttelast			
	[	> $nl7i := 1.5 \cdot nl \cdot lb7i$	$nl7i := 14.75100$	(1.7.15.1)
]			
▼	Snølast			
	[	> $sl7i := 1.5 \cdot sl \cdot lb7i$	$sl7i := 20.651400$	(1.7.16.1)
]			
▼	Vindlast			
	[	> $vl7i := 1.5 \cdot 0.6 \cdot vl \cdot lb7i$	$vl7i := 0.6195420$	(1.7.17.1)
]			
▼	Egenvekt tak			
	[	> $evt7i := 1.2 \cdot evt \cdot lb7i + 1.2 \cdot lt$	$evt7i := 3.1610976$	(1.7.18.1)
]			

▼	Akse 8			
	<i>Lastbredde påført akse</i>	<i>Lastbredde påført akse</i>		(1.8.1)
▼	Lastbredde påført akse (D-I)			
	[	> $lb8 := 3.75 + \frac{0.37}{2}$	$lb8 := 3.935000000$	(1.8.1.1)
]			
▼	Egenvekt			
	[	> $ev8 := 1.2 \cdot ev \cdot lb8 + 1.2 \cdot lt$	$ev8 := 14.61291360$	(1.8.2.1)
]			
▼	Nyttelast			
	[	> $nl8 := 1.5 \cdot nl \cdot lb8$	$nl8 := 11.80500000$	(1.8.3.1)
]			
▼	Snølast			
	[	> $sl8 := 1.5 \cdot sl \cdot lb8$	$sl8 := 16.52700000$	(1.8.4.1)
]			
▼	Vindlast			
	[	> $vl8 := 1.5 \cdot 0.6 \cdot vl \cdot lb8$	$vl8 := 0.4958100000$	(1.8.5.1)
]			

▼ **Egenvekt tak**

$$\begin{aligned} & \text{Evt8} := 1.2 \cdot \text{Evt} \cdot lb8 + 1.2 \cdot lt \\ & \text{Evt8} := 2.619033600 \end{aligned}$$

(1.8.6.1)

► **ALT 2: Vegger og dekke i massivtre**

▼ **ALT 3: Bjelke/søyle i stål og hullelementer som dekke**

▼ **Laster**

$$\text{Egenvekt dekke} \left(\frac{\text{kN}}{\text{m}^2} \right)$$

$$\text{Egenvekt dekke} \left(\frac{\text{kN}}{\text{m}^2} \right) \quad (3.1.1)$$

$$\begin{aligned} & \text{Ev} := 3.64 \\ & \text{Ev} := 3.64 \end{aligned}$$

(3.1.2)

$$\text{Egenvekt THP 250:250x512 30/15-6 (kN/m}^2\text{)}$$

$$\begin{aligned} & \text{Thp} := (0.250 \cdot 0.006 \cdot 2 + 0.250 \cdot 0.03 + 0.512 \cdot 0.015) \cdot 77 \\ & \text{Thp} := 1.399860 \end{aligned}$$

(3.1.3)

$$\text{Egenvekt EHP 250x6 - 200x30 - 352x15 (kN/m}^2\text{)}$$

$$\begin{aligned} & \text{Ehp} := (2 \cdot 0.25 \cdot 0.006 + 0.2 \cdot 0.03 + 0.352 \cdot 0.015) \cdot 77 \\ & \text{Ehp} := 1.099560 \end{aligned}$$

(3.1.4)

$$\text{Nyttelast (kN/m}^2\text{)}$$

$$\begin{aligned} & \text{Nl} := 2.0 \\ & \text{Nl} := 2.0 \end{aligned}$$

(3.1.5)

$$\text{Snølast (kN/m}^2\text{)}$$

$$\begin{aligned} & \text{Sl} := 3.5 \cdot 0.8 \\ & \text{Sl} := 2.80 \end{aligned}$$

(3.1.6)

$$\text{Vindlast (kN/m}^2\text{)}$$

$$\begin{aligned} & \text{Vl} := 0.14 \\ & \text{Vl} := 0.14 \end{aligned}$$

(3.1.7)

$$\text{Egenvekt tak (kN/m}^2\text{)}$$

$$\begin{aligned} & \text{Evt} := 0.46 \\ & \text{Evt} := 0.46 \end{aligned}$$

(3.1.8)

▼ **Akse 1**

$$\text{Lastbredde påført akse}$$

$$\text{Lastbredde påført akse} \quad (3.2.1)$$

▼ **Lastbredde påført akse (D-G)**

$$\begin{aligned} & \text{[> } lb1g := 2.685 + \frac{0.370}{2} \\ & \text{]} \quad lb1g := 2.870000000 \end{aligned} \quad (3.2.1.1)$$

▼ **Egenvekt**

$$\begin{aligned} & \text{[> } ev1g := 1.2 \cdot ev \cdot lb1g + 1.2 \cdot ehp \\ & \text{]} \quad ev1g := 13.85563200 \end{aligned} \quad (3.2.2.1)$$

▼ **Nyttelast**

$$\begin{aligned} & \text{[> } n11g := 1.5 \cdot nl \cdot lb1g \\ & \text{]} \quad n11g := 8.610000000 \end{aligned} \quad (3.2.3.1)$$

▼ **Snølast**

$$\begin{aligned} & \text{[> } s11g := 1.5 \cdot sl \cdot lb1g \\ & \text{]} \quad s11g := 12.05400000 \end{aligned} \quad (3.2.4.1)$$

▼ **Vindlast**

$$\begin{aligned} & \text{[> } v11g := 1.5 \cdot 0.6 \cdot vl \cdot lb1g \\ & \text{]} \quad v11g := 0.3616200000 \end{aligned} \quad (3.2.5.1)$$

▼ **Egenvekt tak**

$$\begin{aligned} & \text{[> } evt1g := 1.2 \cdot evt \cdot lb1g + 1.2 \cdot ehp \\ & \text{]} \quad evt1g := 2.903712000 \end{aligned} \quad (3.2.6.1)$$

▼ **Lastbredde påført akse (G-I)**

$$\begin{aligned} & \text{[> } lb1i := 3.782 + \frac{0.37}{2} \\ & \text{]} \quad lb1i := 3.967000000 \end{aligned} \quad (3.2.7.1)$$

▼ **Egenvekt**

$$\begin{aligned} & \text{[> } ev1i := 1.2 \cdot ev \cdot lb1i + 1.2 \cdot ehp \\ & \text{]} \quad ev1i := 18.64732800 \end{aligned} \quad (3.2.8.1)$$

▼ **Nyttelast**

$$\begin{aligned} & \text{[> } n11i := 1.5 \cdot nl \cdot lb1i \\ & \text{]} \quad n11i := 11.90100000 \end{aligned} \quad (3.2.9.1)$$

▼ **Snølast**

$$\begin{aligned} & \text{[> } s11i := 1.5 \cdot sl \cdot lb1i \\ & \text{]} \quad s11i := 16.66140000 \end{aligned} \quad (3.2.10.1)$$

▼ **Vindlast**

$$\begin{aligned} & \text{[> } v11i := 1.5 \cdot 0.6 \cdot vl \cdot lb1i \\ & \text{]} \quad v11i := 0.4998420000 \end{aligned} \quad (3.2.11.1)$$

Egenvekt tak

$$[> \text{evt}li := 1.2 \cdot \text{evt} \cdot lbli + 1.2 \cdot \text{ehp}$$

$$\text{evt}li := 3.509256000$$

(3.2.12.1)

Akse 2

Lastbredde påført akse

Lastbredde påført akse

(3.3.1)

Lastbredde påført akse (D-G)

$$[> lb2 := 7.045$$

$$lb2 := 7.045$$

(3.3.1.1)

Egenvekt

$$[> \text{ev}2 := 1.2 \cdot \text{ev} \cdot lb2 + 1.2 \cdot \text{thp}$$

$$\text{ev}2 := 32.4523920$$

(3.3.2.1)

Nyttelast

$$[> nl2 := 1.5 \cdot nl \cdot lb2$$

$$nl2 := 21.13500$$

(3.3.3.1)

Snølast

$$[> sl2 := 1.5 \cdot sl \cdot lb2$$

$$sl2 := 29.589000$$

(3.3.4.1)

Vindlast

$$[> vl2 := 1.5 \cdot 0.6 \cdot vl \cdot lb2$$

$$vl2 := 0.8876700$$

(3.3.5.1)

Egenvekt tak

Vi ønsker å ha lik vekt på taket i alle tre alt. Derfor er limtreyngden her.

$$[> \text{evt}2 := 1.2 \cdot \text{evt} \cdot lb2 + 1.2 \cdot \text{thp}$$

$$\text{evt}2 := 5.5686720$$

(3.3.6.1)

Akse 3

Lastbredde påført akse

Lastbredde påført akse

(3.4.1)

Lastbredde påført akse (G-H)

$$[> lb3 := 9.578$$

(3.4.1.1)

$$lb3 := 9.578 \quad (3.4.1.1)$$

▼ **Egenvekt**

$$\begin{aligned} & \left[\begin{aligned} & \text{ev3} := 1.2 \cdot ev \cdot lb3 + 1.2 \cdot thp \\ & \text{ev3} := 43.5165360 \end{aligned} \right] \quad (3.4.2.1) \end{aligned}$$

▼ **Nyttelast**

$$\begin{aligned} & \left[\begin{aligned} & nl3 := 1.5 \cdot nl \cdot lb3 \\ & nl3 := 28.73400 \end{aligned} \right] \quad (3.4.3.1) \end{aligned}$$

▼ **Snølast**

$$\begin{aligned} & \left[\begin{aligned} & sl3 := 1.5 \cdot sl \cdot lb3 \\ & sl3 := 40.227600 \end{aligned} \right] \quad (3.4.4.1) \end{aligned}$$

▼ **Vindlast**

$$\begin{aligned} & \left[\begin{aligned} & vl3 := 1.5 \cdot 0.6 \cdot vl \cdot lb3 \\ & vl3 := 1.2068280 \end{aligned} \right] \quad (3.4.5.1) \end{aligned}$$

▼ **Egenvekt tak**

$$\begin{aligned} & \left[\begin{aligned} & evt3 := 1.2 \cdot evt \cdot lb3 + 1.2 \cdot thp \\ & evt3 := 6.9668880 \end{aligned} \right] \quad (3.4.6.1) \end{aligned}$$

▼ **Akse 4**

Lastbredde påført akse

$$Lastbredde \text{ påført akse} \quad (3.5.1)$$

▼ **Lastbredde påført akse (D-G)**

$$\begin{aligned} & \left[\begin{aligned} & lb4 := 7.69 \\ & lb4 := 7.69 \end{aligned} \right] \quad (3.5.1.1) \end{aligned}$$

▼ **Egenvekt**

$$\begin{aligned} & \left[\begin{aligned} & ev4 := 1.2 \cdot ev \cdot lb4 + 1.2 \cdot thp \\ & ev4 := 35.2697520 \end{aligned} \right] \quad (3.5.2.1) \end{aligned}$$

▼ **Nyttelast**

$$\begin{aligned} & \left[\begin{aligned} & nl4 := 1.5 \cdot nl \cdot lb4 \\ & nl4 := 23.0700 \end{aligned} \right] \quad (3.5.3.1) \end{aligned}$$

▼ **Snølast**

$$\begin{aligned} & \left[\begin{aligned} & sl4 := 1.5 \cdot sl \cdot lb4 \\ & sl4 := 32.29800 \end{aligned} \right] \quad (3.5.4.1) \end{aligned}$$

▼ **Vindlast**

$$\begin{aligned} & \text{[> } vl4 := 1.5 \cdot 0.6 \cdot vl \cdot lb4 \\ & \end{aligned}$$

$$vl4 := 0.968940$$

(3.5.5.1)

▼ **Egenvekt tak**

$$\begin{aligned} & \text{[> } evt4 := 1.2 \cdot evt \cdot lb4 + 1.2 \cdot thp \\ & \end{aligned}$$

$$evt4 := 5.9247120$$

(3.5.6.1)

▼ **Akse 5**

Lastbredde påført akse

Lastbredde påført akse

(3.6.1)

▼ **Lastbredde påført akse (G-H)**

$$\begin{aligned} & \text{[> } lb5 := 10.528 \\ & \end{aligned}$$

$$lb5 := 10.528$$

(3.6.1.1)

▼ **Egenvekt**

$$\begin{aligned} & \text{[> } ev5 := 1.2 \cdot ev \cdot lb5 + 1.2 \cdot thp \\ & \end{aligned}$$

$$ev5 := 47.6661360$$

(3.6.2.1)

▼ **Nyttelast**

$$\begin{aligned} & \text{[> } nl5 := 1.5 \cdot nl \cdot lb5 \\ & \end{aligned}$$

$$nl5 := 31.58400$$

(3.6.3.1)

▼ **Snølast**

$$\begin{aligned} & \text{[> } sl5 := 1.5 \cdot sl \cdot lb5 \\ & \end{aligned}$$

$$sl5 := 44.217600$$

(3.6.4.1)

▼ **Vindlast**

$$\begin{aligned} & \text{[> } vl5 := 1.5 \cdot 0.6 \cdot vl \cdot lb5 \\ & \end{aligned}$$

$$vl5 := 1.3265280$$

(3.6.5.1)

▼ **Egenvekt tak**

$$\begin{aligned} & \text{[> } evt5 := 1.2 \cdot evt \cdot lb5 + 1.2 \cdot thp \\ & \end{aligned}$$

$$evt5 := 7.4912880$$

(3.6.6.1)

▼ **Akse 6**

Lastbredde påført akse

Lastbredde påført akse

(3.7.1)

▼ **Lastbredde påført akse (D-G)**

$$lb6 := 7.45 \quad lb6 := 7.45 \quad (3.7.1.1)$$

▼ **Egenvekt**

$$ev6 := 1.2 \cdot ev \cdot lb6 + 1.2 \cdot thp \quad ev6 := 34.2214320 \quad (3.7.2.1)$$

▼ **Nyttelast**

$$nl6 := 1.5 \cdot nl \cdot lb6 \quad nl6 := 22.3500 \quad (3.7.3.1)$$

▼ **Snølast**

$$sl6 := 1.5 \cdot sl \cdot lb6 \quad sl6 := 31.29000 \quad (3.7.4.1)$$

▼ **Vindlast**

$$vl6 := 1.5 \cdot 0.6 \cdot vl \cdot lb6 \quad vl6 := 0.938700 \quad (3.7.5.1)$$

▼ **Egenvekt tak**

$$evt6 := 1.2 \cdot evt \cdot lb6 + 1.2 \cdot thp \quad evt6 := 5.7922320 \quad (3.7.6.1)$$

▼ **Akse 7**

Lastbredde påført akse

$$Lastbredde \text{ påført akse} \quad (3.8.1)$$

▼ **Lastbredde påført akse (D-G)**

$$lb7g := 3.75 + \frac{0.37}{2} \quad lb7g := 3.935000000 \quad (3.8.1.1)$$

▼ **Egenvekt**

$$ev7g := 1.2 \cdot ev \cdot lb7g + 1.2 \cdot ehp \quad ev7g := 18.50755200 \quad (3.8.2.1)$$

▼ **Nyttelast**

$$nl7g := 1.5 \cdot nl \cdot lb7g \quad nl7g := 11.80500000 \quad (3.8.3.1)$$

▼ **Snølast**

$$sl7g := 1.5 \cdot sl \cdot lb7g \quad sl7g := 16.52700000 \quad (3.8.4.1)$$

▼	Vindlast		
	[> $vl7g := 1.5 \cdot 0.6 \cdot vl \cdot lb7g$	$vl7g := 0.4958100000$	(3.8.5.1)
▼	Egenvekt tak		
	[> $evt7g := 1.2 \cdot evt \cdot lb7g + 1.2 \cdot ehp$	$evt7g := 3.491592000$	(3.8.6.1)
▼	Lastbredde påført akse (G-I)		
	[> $lb7i := 4.732 + \frac{0.37}{2}$	$lb7i := 4.917000000$	(3.8.7.1)
▼	Egenvekt		
	[> $ev7i := 1.2 \cdot ev \cdot lb7i + 1.2 \cdot ehp$	$ev7i := 22.79692800$	(3.8.8.1)
▼	Nyttelast		
	[> $nl7i := 1.5 \cdot nl \cdot lb7i$	$nl7i := 14.75100000$	(3.8.9.1)
▼	Snølast		
	[> $sl7i := 1.5 \cdot sl \cdot lb7i$	$sl7i := 20.65140000$	(3.8.10.1)
▼	Vindlast		
	[> $vl7i := 1.5 \cdot 0.6 \cdot vl \cdot lb7i$	$vl7i := 0.6195420000$	(3.8.11.1)
▼	Egenvekt tak		
	[> $evt7i := 1.2 \cdot evt \cdot lb7i + 1.2 \cdot ehp$	$evt7i := 4.033656000$	(3.8.12.1)