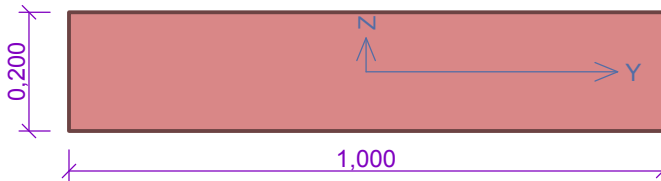


Wall 200mm




Material

Name: Autoclaved aerated concrete masonry P2 - Mortar for thin joints

Strength in compression	f_k	1,442 MPa
Shear strength	f_{vko}	0,3 MPa
Tensile strength upon bending about horizontal axis	f_{xk1}	0,15 MPa
Tensile strength upon bending about vertical axis	f_{xk2}	0,2 MPa
Partial material factor	γ_M	2,7
Creep coefficient	φ	1

Support

Support method: 
 Ceiling type: Concrete
 Wall height: 2,600m
 Wall length: 5,000m
 Buckling height: 2,498m

Ultimate limit state

Štihlost prvku $h_{ef}/t_{ef} = 12,49 \leq 27 \Rightarrow$ **Pass**

no.	Name	N_{Ed}	V_{Edz}	V_{Edy}	M_{Edy}	M_{Edz}	Check
		N_{Rd}	V_{Ed}	V_{Rd}	M_{Ed}	M_{Rd}	
		[kN]	[kN]		[kNm]		
1	ZP 1	-50,00	0,00	0,00	2,00	0,00	Pass
		-56,57	0,00	6,31	2,00	-	
2	ZP 2	-55,00	0,00	0,00	1,20	0,00	Pass
		-58,32	0,00	8,41	1,20	-	
3	ZP 3	-60,00	0,00	0,00	-1,80	0,00	Pass
		-66,96	0,00	7,47	1,80	-	

Ultimate limit state - **PASS**

Serviceability limit state

Member thickness (smalles dimension) $t_{ef} = 0,200m \geq 0,100m \Rightarrow$ Pass

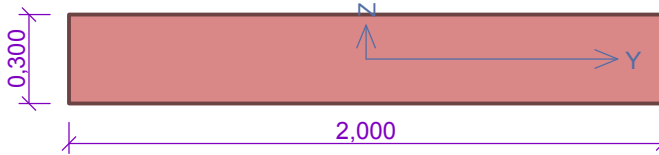
Proportion of member height and thickness $h/t_{ef} = 13,000 \leq 1,7E308 \Rightarrow$ Pass

Proportion of member length and thickness $l/t_{ef} = 25,000 \leq 146,000 \Rightarrow$ Pass

Serviceability limit state - **PASS**

PASS

Column




Material

Name: Calcium silicate masonry P16 - Ordinary mortar M2,5

Strength in compression	f_k	5,042 MPa
Shear strength	f_{vko}	0,15 MPa
Tensile strength upon bending about horizontal axis	f_{xk1}	0,05 MPa
Tensile strength upon bending about vertical axis	f_{xk2}	0,2 MPa
Partial material factor	γ_M	2,2
Creep coefficient	φ	1,5

Support

Support method: 
Wall height: 2,650m
Buckling height: 5,300m

Ultimate limit state

Štihlost prvku $h_{ef}/t_{ef} = 17,67 \leq 27 \Rightarrow$ **Pass**

no.	Name	N_{Ed}	V_{Edz}	V_{Edy}	M_{Edy}	M_{Edz}	Check
		N_{Rd}	V_{Ed}	V_{Rd}	M_{Ed}	M_{Rd}	
		[kN]	[kN]		[kNm]		
1	Load 1	-22,00	0,00	0,00	0,38	0,00	Pass
		-733,23	0,00	41,78	0,38	-	

Ultimate limit state - PASS

Serviceability limit state

Member thickness (smalles dimension) $t_{ef} = 0,300m \geq 0,100m \Rightarrow$ Pass

Proportion of member height and thickness $h/t_{ef} = 8,833 \leq 30,000 \Rightarrow$ Pass

Serviceability limit state - PASS

PASS