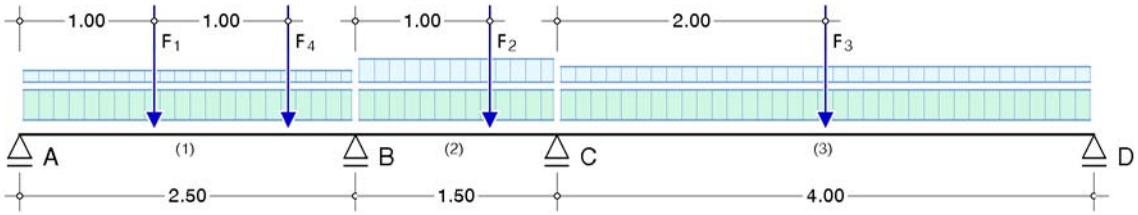
27: BEAM AXIS C TIMBER

system



loading: line load(constant span by span):

span 1: g/p = 4.00 / 1.50 kN/m, span 2: g/p = 4.00 / 3.00 kN/m, span 3: g/p = 4.00 / 2.00 kN/m,

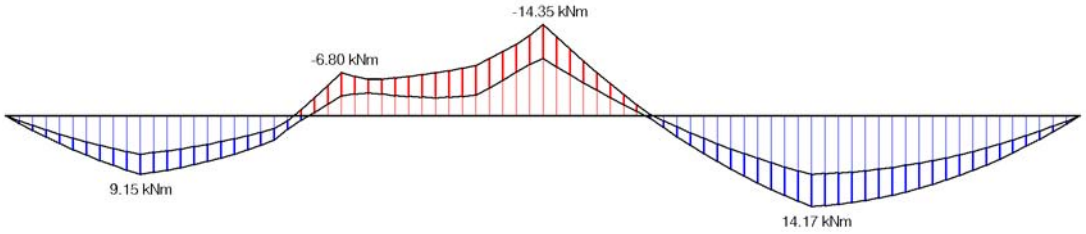
point loads:

F_1: G/P = 6.00 / 3.00 kN, F_2: G/P = 6.00 / 3.00 kN, F_3: G/P = 6.00 / 3.00 kN,
F_4: G/P = 6.00 / 3.00 kN,

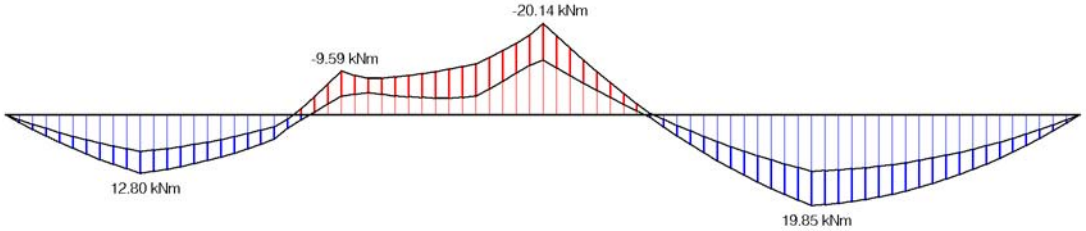
material: coniferous timber: C14, rectangular section: h/b = 26.0 / 18.0 cm

service class: 2, duration of load of live loads: medium-term, utilization due to bending and shear stress en acc. to EC5

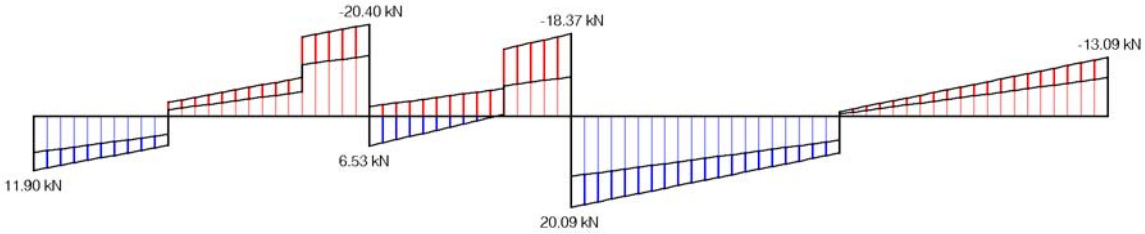
extremal moments (characteristic)



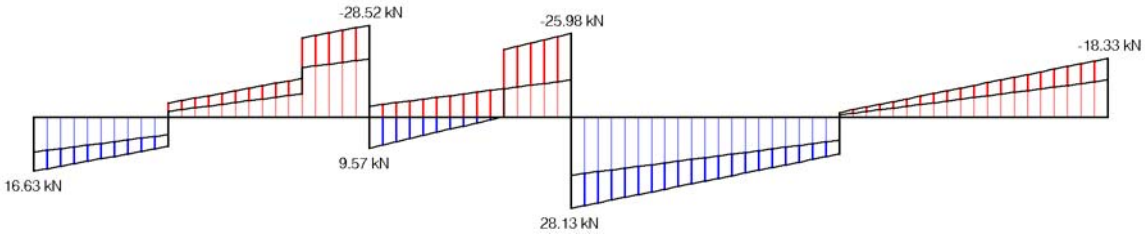
extremal moments (factorised)



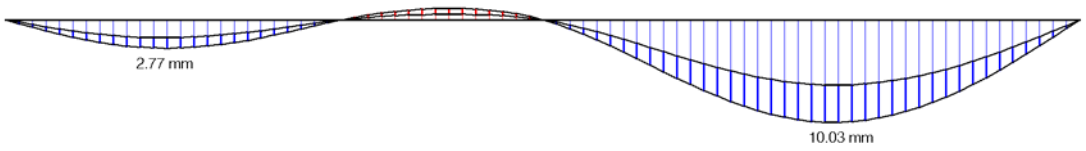
extremal shear forces (characteristic)



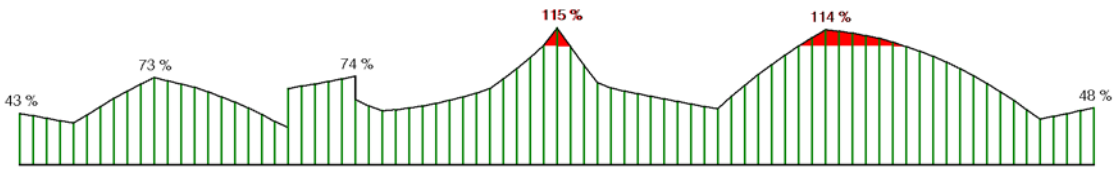
extremal shear forces (factorised)



extremal deformations (characteristic)



utilizations (percental)



support reactions
(characteristic)

	A kN	B kN	C kN	D kN
minimum	7.98	11.28	22.04	8.58
perman.	8.18	15.33	23.82	8.68
maximal	11.90	26.93	38.46	13.09