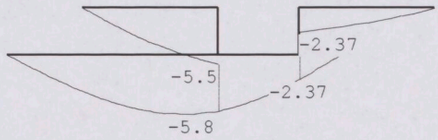
Project..: 15100
Onderdeel: raveling dakterras 1

OMHULLENDE VAN DE BLIJVENDE COMBINATIES

VERPLAATSINGEN 1e orde [mm] Blijvende combinatie



REACTIES 1e orde Blijvende combinatie

Kn.	X	Z	M
1	0.00	2.25	
3		3.90	
7	-0.00	2.74	
8	0.00	1.13	

MATERIAALGEGEVENS

Materiaal	$f_{m,y,k}$ [N/mm^2]	ρ_k [kg/m^3]	ρ_{mean} [kg/m^3]	$f_{t,0,k}$ [N/mm^2]	$f_{t,90,k}$ [N/mm^2]	$f_{c,0,k}$ [N/mm^2]	$f_{c,90,k}$ [N/mm^2]	$f_{v,k}$ [N/mm^2]
C20	20	330	390	12	0.4	19	2.3	3.6
C18	18	320	380	11	0.4	18	2.2	3.4
C24	24	350	420	14	0.4	21	2.5	4.0

MATERIAALGEGEVENS (vervolg)

Materiaal	G_{mean} [N/mm^2]	$E_{0,05}$ [N/mm^2]	E_{90mean} [N/mm^2]	$E_{0,mean}$ [N/mm^2]	Klimaatklasse	k_{def}	$E_{0mean,fin}$ [N/mm^2]
C20	590	6400	320	9500	I	0.60	5938
C18	560	6000	300	9000	I	0.60	5625
C24	690	7400	370	11000	I	0.60	6875

ZIJDELINGSE STEUNEN

Staaf	Lengte [mm]	Zijde	Steunafstanden [mm]
1	3600	Hart	0
3	700	Hart	700
4	2300	Hart	0; 2300
5	2300	Hart	0; 2300
6	800	Hart	0; 800
7	800	Hart	0; 800

STABILITEIT

Staaf	b_{gem} [mm]	h_{gem} [mm]	l_{sys} [mm]	$l_{buc,z}$ [mm]	λ_z	$\lambda_{rel,z}$	β_c	k_z	$k_{c,z}$	$k_{c,y}$
1	150.0	275.0	3600	4400	101.6	1.723	0.2	2.127	0.296	0.843
2	150.0	275.0	1400	2300	53.1	0.901	0.2	0.966	0.761	0.843
3	150.0	275.0	700	700	16.2	0.274	0.2	0.535	1.006	0.843
4	75.0	275.0	2300	2300	106.2	1.801	0.2	2.273	0.273	0.953
5	75.0	275.0	2300	2300	106.2	1.801	0.2	2.273	0.273	0.953
6	75.0	275.0	800	800	37.0	0.627	0.2	0.729	0.908	1.027
7	75.0	275.0	800	800	37.0	0.627	0.2	0.729	0.908	1.027