

10.2

()

: = : , = : , = :
: = : , = :

b : (cm) D : (cm)
 Fc : (N/mm²) at y : (kN)
 (Fc))
 ag y : (kN) g1 :
 bDFc = b*d*Fc(kN) N : (kN)
 Nb : (kN) Nmax : (kN)
 Nmin : (kN) Mu : RC (kN m) (Mi=max(Mio, Miv))
 : Mu () (Mi=max(Mio, Miv))
 = () ()
 = (N) () (MN) (3.4.1.1 3.4.1.3)

tw : (cm) Lw : (cm) (Lw min(6 tw, 100.0))
 av vy : (kN) (cm)
 e : (e = ew+gc , ew , gc: e = 0.8D)

Mi(Nb) : RC (kN m) Mio : (kN m)
 Miv : (kN m)
 b2 : (cm) D2 : (cm)
 at2 y2 : (kN) g2 : (cm)
 b2D2Fc = b2 d2 Fc(kN)

tw : (cm) Lw : (cm)
 Fcw : (N/mm²)
 av vy : (kN)
 rtw : (cm) tw : tw + rtw
 raw vy : (kN)
 ((T) (O))

Ac : (cm² /) na =
 Ta : (kN) (=min(1, 2, 3)) Tara = Ta na
 Tw = av vy + min(raw vy, Tara)
 be : (cm) beDFc = be d Fc(kN)
 NB NI : MN (kN) (3.4.1.1 3.4.1.3)
 N : ()

*1.
*2.
*3.

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		b	D	Fc	at y	ag y	g1	bDFc	N	Nb	Nmax	Nmin	Mi	
		tw(L)	Lw(L)	av vy(L)	e(L)	tw(R)	Lw(R)	av vy(R)	e(R)	Mi(Nb)	Mio	Miv		
		() *2	b2	D2	at2 y2	g2	b2D2Fc							
		() *1	tw(T)	rtw(T)	tw(T)	Lw(T)	Fcw(T)	(T)	av vy	raw vy	Tw			
		() *1	tw(O)	rtw(O)	tw(O)	Lw(O)	Fcw(O)	(O)						
		() *3	Ac	1	2	3	na	Ta	Tara					
		() *1	be	beDFc	NB	N7	NB	N5	N4	N3	N2	NI		
3F	1		50.0	50.0	17.65	---	781.0	0.629	4412.5	97.1	1581.5	5193.5	-781.0	146.6
			---	---	---	---	---	---	---	---	376.5	146.6	---	
3F	1		50.0	50.0	17.65	---	781.0	0.629	4412.5	97.1	1581.5	5193.5	-781.0	146.6
			---	---	---	---	---	---	---	---	376.5	146.6	---	

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		b	D	Fc	at	y	ag	y	gl	bDFc	N	Nb	Nmax	Nmin	Mi
		tw(L)	Lw(L)	av	vy(L)	e(L)	tw(R)	Lw(R)	av	vy(R)	e(R)	Mi(Nb)	Mio	Miw	
() *2		b2	D2		at2	y2		g2		b2D2Fc					
() *1			tw(T)	rtw(T)	tw(T)	Lw(T)	Fcw(T)	(T)	aw	vy	raw	wy	Tw		
() *1			tw(Q)	rtw(Q)	tw(Q)	Lw(Q)	Fcw(Q)	(Q)							
() *3		Ac	1	2	3	ra	Ta	Tana							
() *1		be	beDFc		N8	N7	N6	N5	N4	N3	N2	N1			
3F	2	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	2	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	3	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	3	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	4	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	4	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	5	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	5	50.0	50.0	17.65	---	667.3	0.600	4412.5	163.8	1553.2	5079.8	-667.3	139.5		
		---	---	---	---	---	---	---	---	351.7	139.5	---			
3F	6	50.0	50.0	17.65	---	781.0	0.629	4412.5	97.1	1581.5	5193.5	-781.0	146.6		
		---	---	---	---	---	---	---	---	376.5	146.6	---			
3F	6	50.0	50.0	17.65	---	781.0	0.629	4412.5	97.1	1581.5	5193.5	-781.0	146.6		
		---	---	---	---	---	---	---	---	376.5	146.6	---			
2F	1	55.0	55.0	17.65	---	781.0	0.643	5339.1	218.7	1930.4	6120.1	-781.0	195.9		
		---	---	---	---	---	---	---	---	477.1	195.9	---			
2F	1	55.0	55.0	17.65	---	781.0	0.643	5339.1	218.7	1930.4	6120.1	-781.0	195.9		
		---	---	---	---	---	---	---	---	477.1	195.9	---			
2F	2	55.0	55.0	17.65	---	781.0	0.643	5339.1	355.0	1930.4	6120.1	-781.0	229.3		
		---	---	---	---	---	---	---	---	477.1	229.3	---			
2F	2	55.0	55.0	17.65	---	781.0	0.643	5339.1	355.0	1930.4	6120.1	-781.0	229.3		
		---	---	---	---	---	---	---	---	477.1	229.3	---			
2F	3	55.0	55.0	17.65	---	781.0	0.643	5339.1	355.0	1930.4	6120.1	-781.0	229.3		
		---	---	---	---	---	---	---	---	477.1	229.3	---			

10.3

()

: = : , = : , = :

b : (cn) D : (cn) *
Fc : (N/nm²) ()
N : (kN) at : (cn)
pw : (%) pw vy : (N/nm²)
Kr : hO : (cn)
Qsu : (kN) (0.9 * 0.8 **)

b2 : (cn) D2 : (cn)
pw2 : (%) pw2 vy2 : (N/nm²)

tw : (cn) Lw : (cn) (Lw min(6 tw, 100.0))
atw : (nm²)
ew/gt : (cn)
(ew (L) (R) ew/gt = 1.0) gt:

hc0 : (n) hw0 : (n)
Lw/L : hO/HD : (n)
hsw : hcv0 : (n) *4

tw : (cn) Lw : (cn)
Fcw : (N/nm²) vpw vy : (N/nm²)
rtw : (cn) tw : tw + rtw
rwpw vy : (N/nm²) vpw vy : vpw vy + rwpw vy
((T) (C))

=Qsu1:
=Qsu2:
=Qsu3:
=Qsu4:

(A) : (cn) (cn²) (L') : (cn)
be : (cn) de : (cn) (%)
ate : (cn²) pte : (%)
MQle : pve vy : (N/nm²)
Oe : (N/nm²)
(Qsu) : (kN) j(je) : (cn)

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*4. []

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	b	D	Fc	N	at	pw	pw vy	Kr	hO	Qsu		
() *4	b2	D2				pw2	pw2 vy2					
() *1	tw(L)	Lw(L)	atw(L)	ew/gt(L)	tw(R)	Lw(R)	atw(R)	ew/gt(R)				
() *2			hc0	hw0	Lw/L	hO/HD	hsw	hcv0				
() *2	tw(T)	rtw(T)	tw(T)	Lw(T)	Fcw(T)	vpw vy	rwpw vy	vpw vy				
() *2	tw(C)	rtw(C)	tw(C)	Lw(C)	Fcw(C)	vpw vy	rwpw vy	vpw vy				
(A)	(L')	be	de	ate	pte	MQle	pve vy	Oe	j(je)	(Qsu)		
3F 1	50.0	50.0	17.65	97.1	10.4	0.102	0.299	----	203.0	230.9		
	----	2500.0	----	50.0	45.0	10.4	0.418	2.26	0.299	0.39	40.0	230.9
3F 1	50.0	50.0	17.65	97.1	10.4	0.102	0.299	----	203.0	230.9		
	----	2500.0	----	50.0	45.0	10.4	0.418	2.26	0.299	0.39	40.0	230.9

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		b	D	Fc	N	at	pw	pw vy	Kr	h0	Qsu		
() *4		b2	D2				pw2	pw2 vy2					
() *1		tw(L)	Lw(L)	atw(L)	ew/gt(L)	tw(R)	Lw(R)	atw(R)	ew/gt(R)				
() *2			tw(T)	rtw(T)	hc0	hw0	Lw/L	h0/HD	hsw	hcv0			
() *2			tw(C)	rtw(C)	tw(T)	Lw(T)	Fcw(T)	vpw vy	rvpw vy	vpw vy			
() *2			tw(C)	rtw(C)	tw(C)	Lw(C)	Fcw(C)	vpw vy	rvpw vy	vpw vy			
(A)		(L)	be	de	ate	pte	MQle	pve vy	Oe	j(je)	(Qsu)		
3F	2	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	2	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	3	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	3	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	4	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	4	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	5	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	5	50.0	50.0	17.65	163.8	8.5	0.102	0.299	----	203.0	230.3		
		----	2500.0	----	50.0	45.0	8.5	0.340	2.26	0.299	0.66	40.0	230.3
3F	6	50.0	50.0	17.65	97.1	10.4	0.102	0.299	----	203.0	230.9		
		----	2500.0	----	50.0	45.0	10.4	0.418	2.26	0.299	0.39	40.0	230.9
3F	6	50.0	50.0	17.65	97.1	10.4	0.102	0.299	----	203.0	230.9		
		----	2500.0	----	50.0	45.0	10.4	0.418	2.26	0.299	0.39	40.0	230.9
2F	1	55.0	55.0	17.65	218.7	10.4	0.093	0.272	----	200.0	293.7		
		----	3025.0	----	55.0	50.0	10.4	0.345	2.00	0.272	0.72	44.0	293.7
2F	1	55.0	55.0	17.65	218.7	10.4	0.093	0.272	----	200.0	293.7		
		----	3025.0	----	55.0	50.0	10.4	0.345	2.00	0.272	0.72	44.0	293.7
2F	2	55.0	55.0	17.65	355.0	10.4	0.093	0.272	----	200.0	304.6		
		----	3025.0	----	55.0	50.0	10.4	0.345	2.00	0.272	1.17	44.0	304.6
2F	2	55.0	55.0	17.65	355.0	10.4	0.093	0.272	----	200.0	304.6		
		----	3025.0	----	55.0	50.0	10.4	0.345	2.00	0.272	1.17	44.0	304.6
2F	3	55.0	55.0	17.65	355.0	10.4	0.093	0.272	----	200.0	304.6		
		----	3025.0	----	55.0	50.0	10.4	0.345	2.00	0.272	1.17	44.0	304.6