

D.1.3 Circumferential (hoop) compression

l	1.000,00	mm	500 Case Cylinder end Boundary condition								
r	5.000,00	mm	Value of Cq								
t	1,00	mm	Value of Cq Value of Cqs								
w	14,14		BC2f BC2f	+one point Y	BC2f BC2f	1	end1	BC1	BC1BC1	1,5	1,55
end1	BC2	end2					BC1				
end2	BC2	2				end1	BC1	BC1BC2	1,25	1,29	
Cq	1					end2	BC2				
Cqs	1,08	3				end1	BC2	BC2BC2	1	1,08	
1,63r/t	8150					end2	BC2				
w/Cq	14,14	short cylinders	0,59	4	end1	BC1	BC1BC3	0,6	0,60		
E	210.000	N/mm2 (Mpa)			end2	BC3					
S _{qRcr}	2,96	N/mm2 (Mpa)		5	end1	BC2	BC2BC3	0			
q _{qRcr}	0,0006	N/mm2 (Mpa)			end2	BC3					
				medium-length cylinders	2,73	N/mm2 (Mpa)					
					short cylinders	2,96	N/mm2 (Mpa)				
					long cylinders	266.437.500,00	N/mm2 (Mpa)				

l	1000	mm
r	1000	mm
t	1	mm
E	210000	N/mm2 (Mpa)
sqRcr	6,109520439	N/mm2 (Mpa)
qqRcr	0,00610952	N/mm2 (Mpa)

Quad 8	1710 Elements
	5310 Nodes

Quad 8	6840 Elements
	20880 Nodes

500		
EN 1993-1-6: 2007	Mecway Internal	ccx 13 MT

PREDICTED	RESULT	RESULT	t	1 mm
6,11	6,38	13,48		

PREDICTED	RESULT	RESULT	t	1 mm
6,11	6,36	6,93		