

PROVEDENÍ ZÁKLADNÍCH TYPŮ BLOKŮ VODOVODNÍCH POTRUBÍ

1

Technical drawing of a reinforcement block with a curved top surface. Dimensions include: $\check{s}_{\text{výk.}}$ (width of the top surface), $b \text{ min.}$ (width of the base), $h \text{ min.}$ (height), $\check{s}_{\text{výk.}}/2$ (width of the base), and 200 (radius of the curved top surface).

2

Technical drawing of a reinforcement block with a flat top surface. Dimensions include: $b \text{ min.}$ (width of the base), $h \text{ min.}$ (height), $\check{s}_{\text{výk.}}/2$ (width of the base), and 200 (radius of the curved top surface).

3

Technical drawing of a reinforcement block with a flat top surface and a central opening. Dimensions include: $h \text{ min.}$ (height), $b \text{ min.}$ (width of the base), $\check{s}_{\text{výk.}}/2$ (width of the base), and 200 (radius of the curved top surface).

4

Technical drawing of a reinforcement block with a flat top surface. Dimensions include: $\text{max. } 750$ (width of the top surface), $\check{s}_{\text{výk.}}$ (width of the top surface), $b \text{ min.}$ (width of the base), $h \text{ min.}$ (height), and 200 (radius of the curved top surface).

5

Technical drawing of a reinforcement block with a flat top surface. Dimensions include: $\check{s}_{\text{výk.}}$ (width of the top surface), $b \text{ min.}$ (width of the base), $h \text{ min.}$ (height), $\check{s}_{\text{výk.}}/2$ (width of the base), and 200 (radius of the curved top surface).

6

Technical drawing of a reinforcement block with a flat top surface. Dimensions include: $\check{s}_{\text{výk.}}$ (width of the top surface), $b \text{ min.}$ (width of the base), $h \text{ min.}$ (height), $\check{s}_{\text{výk.}}/2$ (width of the base), and 200 (radius of the curved top surface).

TYP1=OBLIQUE 22° DN80																							
3 ks objem: 0,03 m ³																							
h _{min}	b _{min}	δ _%	S _{oboku}	F _R	Q	p ₁	p ₂	r	DN _{ED1}	DN _{ED2}	S ₁	S ₂	v ₁	v ₂	F _{Rx}	F _{Ry}	F _{Rz}	l	a	h _{%k}	q _{zemny}	s	b
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
0.33	0.30	0.35	0.10	2.9	0.007	1000.0	1000.0	1.0	0.098	0.098	0.008	0.008	0.9	0.9	0.55	-2.83	-0.06	0.80	22	1.6	18	26.8	-79

Typ1=OBLOUK 30° DN80										5 ks										objekt: 0,17 m ³									
h_{\min}	b_{\min}	$\xi_{y/k}$	S_{poku}	F_R	q	p_1	p_2	r	$DNED_1$	$DNED_2$	S_1	S_2	v_1	v_2	F_{Rx}	F_{Ry}	F_{Rz}	l	α	$h_{y/k}$	g_{zamy}	s	b						
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]						
0.39	0.35	0.80	0.14	3.9	0.007	1000.0	1000.0	1.0	0.098	0.098	0.008	0.008	0.9	0.9	1.01	-3.77	-0.01	0.17	30	1.6	18	28.8	-75						

TP1=OBLOUK 45° DN80																							
6 ks objem: 0,31 m ³																							
h _{mn}	b _{mn}	š _{yk}	s _{oboku}	F _R	Q	p ₁	p ₂	r	DNED ₁	DNED ₂	S ₁	S ₂	v ₁	v ₂	F _{Rx}	F _{Ry}	F _{Rz}	l	a	h _{vyk}	q _{zemny}	s	b
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[l/m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
0.45	0.45	0.80	0.20	5.8	0.007	1000.0	1000.0	1.0	0.098	0.098	0.008	0.008	0.9	0.9	2.21	-5.34	-0.01	0.10	45	1.6	18	28.8	-67.5

TP1=OBLIQUE 90° DN80										1 ks objem: 0,10 m ³													
h_{min}	b_{min}	$\xi_{y/k}$	S_{obku}	F_R	Q	p_1	p_2	r	$DNED_1$	$DNED_2$	S_1	S_2	v_1	v_2	F_{Rx}	F_{Ry}	F_{Rz}	l	a	$h_{y/k}$	q_{zeminy}	s	b
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
0.52	0.60	0.80	0.37	10.8	0.027	1000.0	1000.0	1.0	0.098	0.098	0.008	0.008	3.6	3.6	7.64	-7.64	-0.01	0.11	30	1.6	18	28.8	-45

TP1=OBLOUK 11° DN200										2 ks										objekt: 0,17 m ³			
h _{min}	b _{min}	š _{yk.}	s _{oboku}	F _R	Q	p ₁	p ₂	r	DN/ED ₁	DN/ED ₂	S ₁	S ₂	v ₁	v ₂	F _{Rx}	F _{Ry}	F _{Rz}	l	a	h _{vyk}	q _{zemny}	s	b
[m]	[m]	[m]	[m ²]	[kN]	[m ³ s]	[kPa]	[kPa]	[l/m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
0.52	0.50	1.00	0.26	7.4	0.040	1000.0	1000.0	1.0	0.222	0.222	0.039	0.039	1.0	1.0	0.71	-7.39	-0.30	0.80	11	1.6	18	26.8	-84.5

TP1=OBLQUIK 22° DN200										1 ks										objem: 0,16 m ³									
h_{min}	b_{min}	$\delta_{\gamma,k}$	S_{bokku}	F_R	Q	p_1	p_2	r	$DNED_1$	$DNED_2$	S_1	S_2	v_1	v_2	F_{Rx}	F_{Ry}	F_{Rz}	l	a	$h_{\gamma,k}$	g_{zeminy}	s	b						
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]						
0.73	0.70	1.00	0.51	14.8	0.040	1000.0	1000.0	1.0	0.222	0.222	0.039	0.039	1.0	1.0	2.82	-14.51	-0.06	0.17	22	1.6	18	26.8	-79						

TYPI=OBLQUK 30° DN200										3 ks		objem: 0,67 m ³											
h_{\min}	b_{\min}	$\delta_{\text{ý.k.}}$	S_{obku}	F_R	Q	p_1	p_2	r	DN_{ED_1}	DN_{ED_2}	S_1	S_2	v_1	v_2	F_{R_x}	F_{R_y}	F_{R_z}	l	α	$h_{\text{ý.k.}}$	q_{zemny}	s	b
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
0.87	0.80	1.00	0.70	20.0	0.040	1000.0	1000.0	1.0	0.222	0.222	0.039	0.039	1.0	1.0	5.19	-19.36	-0.04	0.10	30	1.6	18	28.8	-75

TYPI=OBLQUIK 45° DN200										1 ks		objem: 0,33 m ³											
h _{min}	b _{min}	š _{yk.}	S _{obku}	F _R	Q	p ₁	p ₂	r	DN/ED ₁	DN/ED ₂	S ₁	S ₂	v ₁	v ₂	F _{Rx}	F _{Ry}	F _{Rz}	l	a	h _{vyk}	g _{zaviny}	s	b
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
1.03	1.00	1.03	29.6	0.040	1000.0	1000.0	1000.0	1.0	0.222	0.222	0.039	0.039	1.0	1.0	11.34	-27.39	-0.04	0.11	45	1.6	18	28.8	-67.5



TYP 2=OBROČENÍ T 80/80										5 ks		objem: 0,49 m ³												
h_{\min}	b_{\min}	$s_{\text{žyč.}}$	S_{obkru}	F_R	Q	p_1	p_2	r	D_{NED_1}	D_{NED_2}	S_1	S_2	v_1	v_2	F_{R_x}	F_{R_y}	F_{R_z}	l	α	$h_{\text{žyč.}}$	$q_{\text{zemný}}$	s	b	
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[t/m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]	
0,63	0,60	0,80	0,38	11,0	0,040	1000,0	1000,0	1,0	0,098	0,098	0,008	0,008	5,3	5,3	7,75	-7,75	-0,03	0,44	90	1,6	18	28,8	-45	

TYP 2=OBROČENÍ T 200/80										5 ks		objem: 2,20 m ³												
h_{\min}	b_{\min}	$\delta_{\text{ž.č.}}$	S_{obkru}	F_R	Q	p_1	p_2	r	D_{NED_1}	D_{NED_2}	S_1	S_2	v_1	v_2	F_{R_x}	F_{R_y}	F_{R_z}	l	α	$h_{\text{ž.č.}}$	q_{zamy}	s	b	
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]	
1,19	1,15	1,00	1,37	39,5	0,040	1000,0	986,5	1,0	0,222	0,098	0,039	0,008	1,0	5,3	38,73	-7,65	-0,10	0,44	30	1,6	18	28,8	-11,172	

TYP 2=DOBROČENÍ T 200/200										4 ks										objem: 2,44 m ³									
h _{min}	b _{min}	š _{výk.}	S _{oboku}	F _R	Q	p ₁	p ₂	r	DNED ₁	DNED ₂	S ₁	S ₂	v ₁	v ₂	F _{Rx}	F _{Ry}	F _{Rz}	l	a	h _{výk}	g _{zemny}	s	b						
[m]	[m]	[m]	[m ²]	[kN]	[m ³ /s]	[kPa]	[kPa]	[l/m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]						
1,41	1,35	1,00	1,90	54,8	0,040	1000,0	1000,0	1,0	0,222	0,222	0,039	0,039	1,0	1,0	36,73	-36,73	-0,17	0,44	90	1,6	18	28,8	-45						

TP3-N DN80			7 ks																Objem: 1,65 m3				
h_{min}	b_{min}	$\xi_{y/k}$	S_{boku}	F_R	Q	p_1	p_2	r	DN_{ED1}	DN_{ED2}	S_1	S_2	v_1	v_2	F_{Rx}	F_{Ry}	F_{Rz}	I	α	$h_{y/k}$	q_{zavity}	s	b
[m]	[m]		[m2]	[kN]	[m3/s]	[kPa]	[kPa]	[m3]	[m]	[m]	[m2]	[m2]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]
0.62	0.62	0.60	0.37	10.7	0.010	1000.0	1000.0	1.0	0.098	0.098	0.008	0.008	1.3	1.3	7.55	-7.55	-0.02	0.31	30	1.6	18	26.8	-45

TYPE=REDUCE DN200/80										š.výkopr		1.00		6 ks		objem:		20.40 m ³							
h_{min}	\dot{S}_{min}	b_{min}	S_{Dobku}	F_R	Q	p_1	p_2	r	$DNED_1$	$DNED_2$	S_1	S_2	v_1	v_2	F_{Rx}	F_{Ry}	F_{Rz}	I	a	h_{vyk}	g_{annoy}	s	b	f	$F_{t<F_G}g_{tF}$
[m]	[m]	[m]	[m ²]	[N]	[m ³ /s]	[kPa]	[kPa]	[l/m ³]	[m]	[m]	[m ²]	[m ²]	[m/s]	[m/s]	[kN]	[kN]	[kN]	[m]	[°]	[m]	[kN/m ³]	[kPa]	[°]	[°]	VYHOVÍ
0.85	1.00	2.00	0.65	18.71	0.070	600.0	599.2	1.0	0.222	0.098	0.039	0.008	0.3	1.3	18.68	0.00	-0.03	0.15	0	1.6	18	28.8	0	15	19.07

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