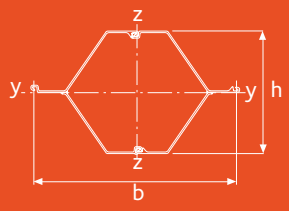
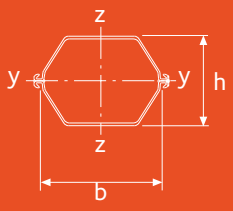
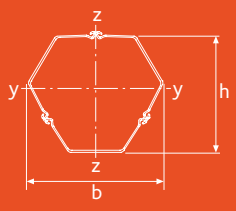
Box piles



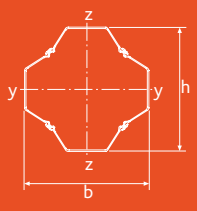
Z-box pile



Double U box pile



Triple U box pile



Quadruple U box pile

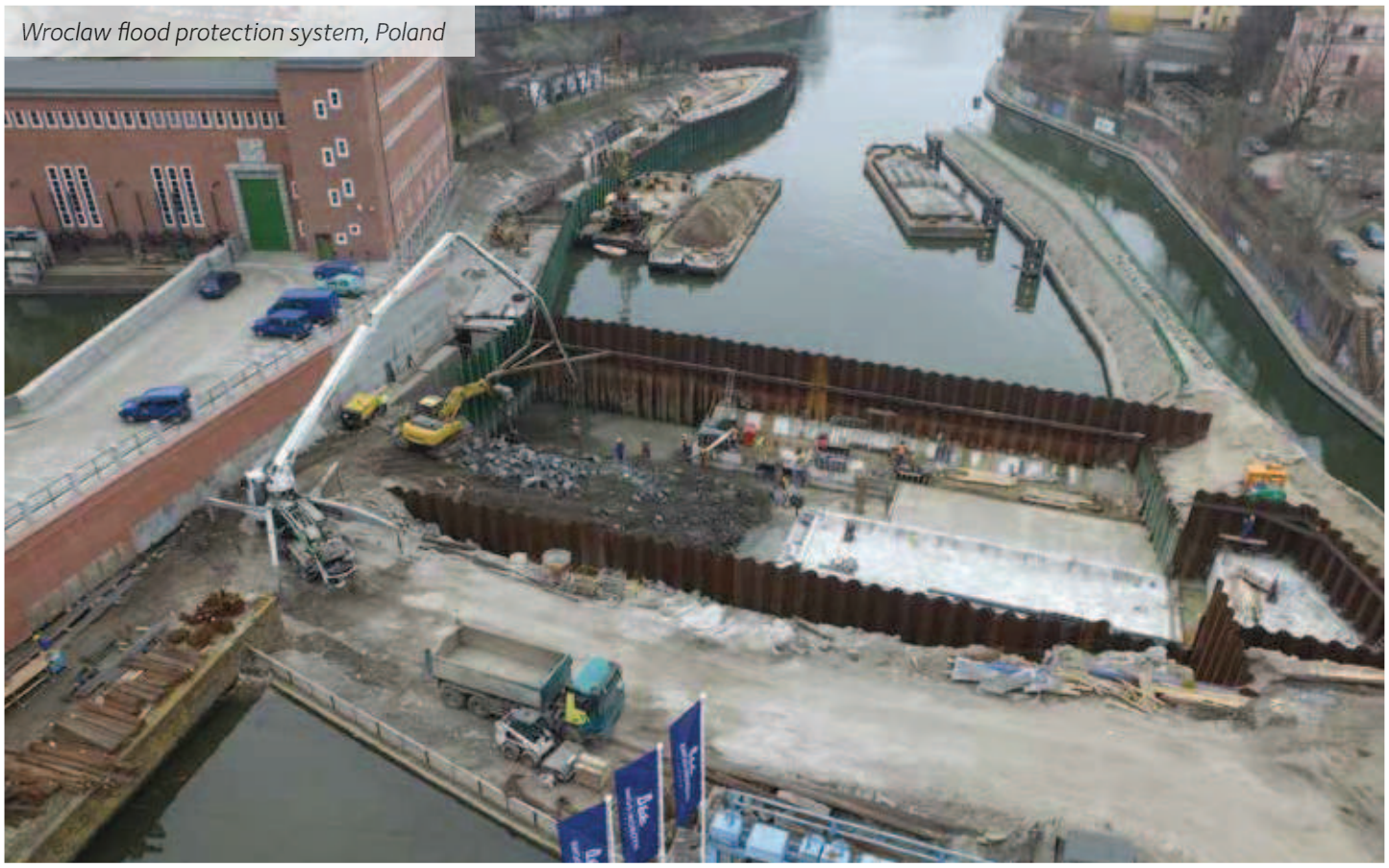
New
AZ 20-800
AZ 25-800
AZ 30-750
AZ 50-700

Section	Width	Height	Perimeter	Sectional area	Total section	Mass[1]	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area[2]
	b	h					y-y	z-z	y-y	z-z		
	mm	mm	cm	cm^2	cm^2	kg/m	cm^4	cm^4	cm^3	cm^3	cm	m^2/m
New **CAZ-800 box piles**												
CAZ 18-800	1600	898	438	363	7340	**285**	339470	650340	**7535**	**7915**	30.6	4.16
CAZ 20-800	1600	900	438	400	7372	**314**	372430	713410	**8250**	**8690**	30.5	4.16
CAZ 22-800	1600	902	439	436	7404	**342**	405710	776690	**8965**	**9465**	30.5	4.16
CAZ 23-800	1600	948	445	423	7764	**332**	447370	756450	**9405**	**9170**	32.5	4.24
CAZ 25-800	1600	950	446	460	7796	**361**	484690	820800	**10170**	**9990**	32.5	4.24
CAZ 27-800	1600	952	446	497	7829	**390**	522220	885310	**10930**	**10750**	32.4	4.24
CAZ-750 box piles												
CAZ 28-750	1500	1018	445	453	7829	**356**	547100	702950	**10715**	**9080**	34.8	4.23
CAZ 30-750	1500	1020	446	490	7861	**385**	590180	758880	**11535**	**9840**	34.7	4.23
CAZ 32-750	1500	1022	446	527	7892	**414**	633500	815060	**12360**	**10535**	34.7	4.23
New **CAZ-700 and CAZ-770 box piles**												
CAZ 12-770	1540	687	389	328	5431	**257**	175060	557990	**5075**	**6985**	23.1	3.67
CAZ 13-770	1540	688	389	344	5446	**270**	183440	584640	**5310**	**7320**	23.1	3.67
CAZ 14-770	1540	689	390	360	5461	**283**	191840	611300	**5545**	**7655**	23.1	3.67
CAZ 14-770 -10/10	1540	690	390	376	5476	**295**	200280	637960	**5780**	**7995**	23.1	3.67
CAZ 12-700	1400	628	360	303	4524	**238**	137770	421600	**4365**	**5785**	21.3	3.39
CAZ 13-700	1400	630	361	332	4552	**261**	150890	461210	**4765**	**6335**	21.3	3.39
CAZ 13-700-10/10	1400	631	361	347	4565	**272**	157530	481090	**4965**	**6610**	21.3	3.39
CAZ 14-700	1400	632	361	362	4579	**284**	164130	500820	**5165**	**6885**	21.3	3.39
CAZ 17-700	1400	839	391	330	6015	**259**	265280	457950	**6300**	**6285**	28.3	3.69
CAZ 18-700	1400	840	391	347	6029	**272**	277840	479790	**6590**	**6590**	28.3	3.69
CAZ 20-700	1400	842	392	379	6058	**297**	303090	523460	**7170**	**7195**	28.3	3.69
CAZ 24-700	1400	918	407	436	6616	**342**	412960	596900	**8965**	**8260**	30.8	3.85
CAZ 26-700	1400	920	407	469	6645	**368**	444300	641850	**9625**	**8900**	30.8	3.85
CAZ 28-700	1400	922	408	503	6674	**395**	475810	686880	**10285**	**9510**	30.8	3.85

[1] The mass of the welds is not taken into account.
[2] Outside surface, excluding inside of interlocks.

Section	Width	Height	Perimeter	Sectional area	Total section	Mass[1]	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area[2]
	b	h					y-y	z-z	y-y	z-z		
	mm	mm	cm	cm^2	cm^2	kg/m	cm^4	cm^4	cm^3	cm^3	cm	m^2/m
CAZ-700 and CAZ-770 box piles												
CAZ 36-700N	1400	998	434	534	7215	**419**	627000	710770	**12525**	**9895**	34.3	4.12
CAZ 38-700N	1400	1000	435	570	7245	**447**	667900	757530	**13315**	**10550**	34.2	4.12
CAZ 40-700N	1400	1002	436	606	7275	**476**	709010	804300	**14105**	**11205**	34.2	4.12
CAZ 42-700N	1400	998	433	646	7267	**507**	744440	855860	**14870**	**11915**	34.0	4.11
CAZ 44-700N	1400	1000	434	682	7298	**535**	785620	902800	**15660**	**12570**	33.9	4.11
CAZ 46-700N	1400	1002	434	718	7328	**564**	827030	949760	**16455**	**13225**	33.9	4.11
New **CAZ 48-700**	1400	1006	435	710	7346	**558**	845530	931330	**16745**	**12965**	34.5	4.13
CAZ 50-700	1400	1008	435	746	7376	**586**	887420	977550	**17540**	**13620**	34.5	4.13
CAZ 52-700	1400	1010	436	782	7406	**614**	929550	1023800	**18335**	**14255**	34.5	4.13
CAZ box piles												
CAZ 18	1260	760	361	333	4925	**261**	222930	365500	**5840**	**5560**	25.9	3.41
CAZ 26	1260	854	377	440	5566	**346**	366820	480410	**8555**	**7385**	28.9	3.57
CAZ 46	1160	962	401	595	5831	**467**	645940	527590	**13380**	**8825**	32.9	3.81
CAZ 48	1160	964	402	628	5858	**493**	681190	556070	**14080**	**9300**	32.9	3.81
CAZ 50	1160	966	402	661	5884	**519**	716620	584560	**14780**	**9780**	32.9	3.81

[1] The mass of the welds is not taken into account.
[2] Outside surface, excluding inside of interlocks.



Wroclaw flood protection system, Poland

Section	Width	Height	Perimeter	Sectional area	Total section	Mass[1]	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area[2]
	b	h					y-y	z-z	y-y	z-z		
	mm	mm	cm	cm^2	cm^2	kg/m	cm^4	cm^4	cm^3	cm^3	cm	m^2/m
CAU double box piles												
CAU 14-2	750	451	230	198	2598	**155.8**	54400	121490	**2415**	**3095**	16.6	2.04
CAU 16-2	750	454	231	220	2620	**172.5**	62240	130380	**2745**	**3325**	16.8	2.04
CAU 18-2	750	486	239	225	2888	**177.0**	73770	142380	**3035**	**3625**	18.1	2.14
CAU 20-2	750	489	240	247	2910	**193.8**	83370	151220	**3405**	**3850**	18.4	2.14
CAU 23-2	750	492	244	260	3013	**204.2**	94540	157900	**3845**	**4020**	19.1	2.19
CAU 25-2	750	495	245	281	3034	**220.8**	104810	166600	**4235**	**4240**	19.3	2.19
CU double box piles												
CU 12-2	600	403	198	168	1850	**132.2**	34000	70000	**1685**	**2205**	14.2	1.72
CU 12 -10/10-2	600	403	198	177	1850	**139.2**	35580	73460	**1765**	**2315**	14.2	1.72
CU 18-2	600	473	212	196	2184	**153.8**	58020	78300	**2455**	**2470**	17.2	1.86
CU 22-2	600	494	220	219	2347	**172.3**	73740	88960	**2985**	**2800**	18.3	1.94
CU 28-2	600	499	226	259	2468	**203.6**	96000	103560	**3850**	**3260**	19.2	2.00
CU 32-2	600	499	223	291	2461	**228.3**	108800	109200	**4360**	**3435**	19.3	1.97
CGU double box piles												
CGU 7N-2	600	348	187	112	1596	**88.2**	16510	48530	**950**	**1535**	12.1	1.62
CGU 7S-2	600	349	188	120	1604	**92.5**	18210	50630	**1045**	**1605**	12.3	1.62
CGU 14N-2	600	461	205	164	2079	**128.6**	44070	65550	**1910**	**2075**	16.4	1.79
CGU 18N-2	600	473	212	196	2184	**153.8**	58020	78300	**2455**	**2470**	17.2	1.86
CGU 22N-2	600	494	220	219	2347	**172.3**	73740	88960	**2985**	**2800**	18.3	1.94
CGU 28N-2	600	499	226	259	2468	**203.6**	96000	103560	**3850**	**3260**	19.2	2.00
CGU 32N-2	600	499	223	291	2461	**228.3**	108800	109200	**4360**	**3435**	19.3	1.97
CGU 16-400	400	336	169	158	1170	**123.9**	25270	31900	**1505**	**1465**	12.7	1.40

[1] The mass of the welds is not taken into account.
[2] Outside surface, excluding inside of interlocks.

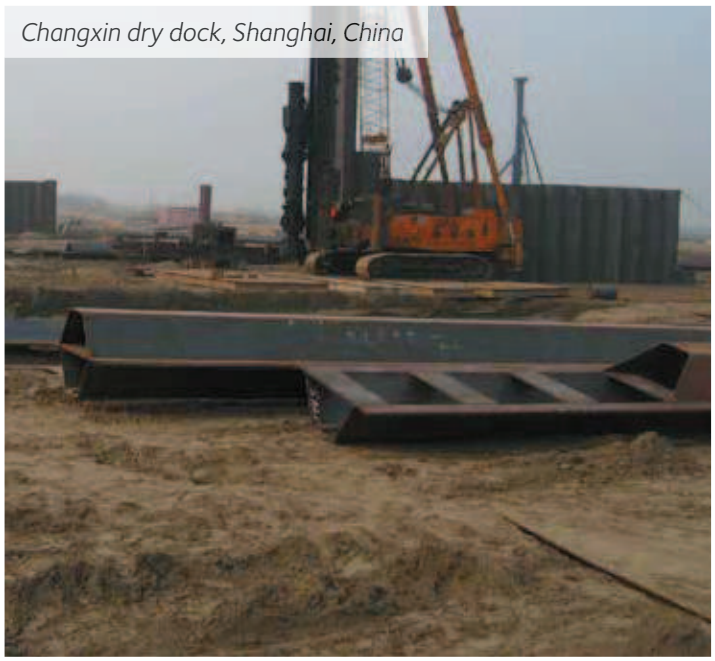
Section	Width	Height	Perimeter	Sectional area	Total section	Mass[1]	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area[2]
	b	h					y-y	z-z	y-y	z-z		
	mm	mm	cm	cm^2	cm^2	kg/m	cm^4	cm^4	cm^3	cm^3	cm	m^2/m
CAU triple box piles												
CAU 14-3	957	908	341	298	6454	**233.7**	300330		**6510**	**6275**	31.7	3.03
CAU 16-3	960	910	342	330	6486	**258.7**	333640		**7235**	**6955**	31.8	3.03
CAU 18-3	1009	927	355	338	6886	**265.5**	363690		**7825**	**7205**	32.8	3.17
CAU 20-3	1012	928	356	370	6919	**290.7**	399780		**8570**	**7900**	32.9	3.17
CAU 23-3	1036	930	361	390	7073	**306.3**	431940		**9235**	**8340**	33.3	3.24
CAU 25-3	1038	931	364	422	7106	**331.3**	469030		**9995**	**9035**	33.3	3.24
CU triple box piles												
CU 12-3	800	755	293	253	4431	**198.3**	173100		**4555**	**4325**	26.2	2.54
CU 12-10/10-3	800	755	293	266	4432	**208.8**	182100		**4790**	**4555**	26.2	2.54
CU 18-3	877	790	315	294	4931	**230.7**	227330		**5475**	**5185**	27.8	2.76
CU 22-3	912	801	326	329	5174	**258.4**	268440		**6310**	**5890**	28.6	2.87
CU 28-3	938	817	336	389	5356	**305.4**	330290		**7720**	**7040**	29.1	2.96
CU 32-3	926	809	331	436	5345	**342.4**	367400		**8585**	**7935**	29.0	2.92
CGU triple box piles												
CGU 14N-3	844	781	305	246	4763	**192.8**	182730		**4475**	**4330**	27.3	2.65
CGU 18N-3	877	790	315	294	4931	**230.7**	227330		**5475**	**5185**	27.8	2.76
CGU 22N-3	912	801	326	329	5174	**258.4**	268440		**6310**	**5890**	28.6	2.87
CGU 28N-3	938	817	336	389	5356	**305.4**	330290		**7720**	**7040**	29.1	2.96
CGU 32N-3	926	809	331	436	5345	**342.4**	367400		**8585**	**7935**	29.0	2.92

[1] The mass of the welds is not taken into account.
[2] Outside surface, excluding inside of interlocks.

Rheinhafen Neuss, Germany

Section	Width	Height	Perimeter	Sectional area	Total section	Mass[1]	Moment of inertia		Elastic section modulus		Min. radius of gyration	Coating area[2]
	b	h					y-y	z-z	y-y	z-z		
	mm	mm	cm	cm^2	cm^2	kg/m	cm^4	cm^4	cm^3	cm^3	cm	m^2/m
CAU quadruple box piles												
CAU 14-4	1222	1222	453	397	11150	**311.6**	692030		**11325**		41.7	4.02
CAU 16-4	1225	1225	454	440	11193	**345.0**	770370		**12575**		41.8	4.02
CAU 18-4	1258	1258	471	451	11728	**354.0**	826550		**13140**		42.8	4.20
CAU 20-4	1261	1261	472	494	11771	**387.6**	910010		**14430**		42.9	4.20
CAU 23-4	1263	1263	481	520	11977	**408.4**	979870		**15510**		43.4	4.30
CAU 25-4	1266	1266	482	563	12020	**441.6**	1064910		**16820**		43.5	4.30
CU quadruple box piles												
CU 12-4	1025	1025	388	337	7565	**264.4**	394000		**7690**		34.2	3.36
CU 12-10/10-4	1025	1025	388	355	7565	**278.4**	414830		**8095**		34.2	3.36
CU 18-4	1095	1095	417	392	8231	**307.6**	507240		**9270**		36.0	3.65
CU 22-4	1115	1115	432	439	8556	**344.6**	593030		**10635**		36.8	3.80
CU 28-4	1120	1120	445	519	8799	**407.2**	725730		**12955**		37.4	3.93
CU 32-4	1120	1120	440	582	8782	**456.6**	811100		**14480**		37.3	3.87
CGU quadruple box piles												
CGU 14N-4	1081	1081	404	328	7997	**257.1**	409870		**7585**		35.4	3.51
CGU 18N-4	1095	1095	417	392	8231	**307.6**	507240		**9270**		36.0	3.65
CGU 22N-4	1115	1115	432	439	8556	**344.6**	593030		**10635**		36.8	3.80
CGU 28N-4	1120	1120	445	519	8799	**407.2**	725730		**12955**		37.4	3.93
CGU 32N-4	1120	1120	440	582	8782	**456.6**	811100		**14480**		37.3	3.87

[1] The mass of the welds is not taken into account.
[2] Outside surface, excluding inside of interlocks.



Changxin dry dock, Shanghai, China