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PAK REFRACTORY PRODUCTS



Pakmehr Refractories Factory

About Us:

With over 30 years of experience, Pakmehr Refractories Factory is a trusted producer of high-quality refractory bricks and mineral products designed to withstand extreme temperatures of up to 1800°C. Based in Urmia, Iran, we are dedicated to providing our customers with top-quality refractory solutions tailored to meet the needs of diverse industrial applications.

In 2016, we expanded our capabilities with the launch of our second phase, achieving a production capacity of 8,000 tons per year. This development allowed us to better serve large-scale industries and enter global markets with industrial-grade refractory bricks, renowned for their reliability and durability.

Customer Satisfaction:

Our commitment to quality and customer satisfaction has earned us the trust of numerous industries over the years. We continue to prioritize excellence in every project, aiming to uphold our reputation for quality and reliability.

Our Clients:

Pakmehr proudly serves industries where high-temperature resistance is essential, including:

● Cement, plaster, and lime production ● Glass, tile, and ceramic manufacturing ● Sugar production ● Petrochemical plants ● Metals and mining sectors: steel, iron, copper, aluminum, lead ● Foundries ● Other high-temperature industries

Our Products & Services:

-Refractory Bricks:

● Alumina-Silicate Bricks (Chamotti) ● High Alumina Bricks (Alma) ● Insulating Bricks

-Refractory Mortars, Castables, and Concretes:

Customized refractory products designed for strength and durability in high-temperature environments.

-Consulting Services:

Professional consultation to help clients select the appropriate brick types and dimensions for specific applications.

-Refractory Project Implementation:

End-to-end support for installation and maintenance, including brickwork, gunning, and more.

With a focus on innovative, high-performance refractory solutions, Pakmehr Refractories Factory is dedicated to delivering the best results for demanding industrial processes. Let us be your partner in resilience and reliability for high-temperature applications.



PAK - Code 1

Classification:	Super Duty Fireclay Brick
Main Raw Material Component:	Fireclay (Chamotte)
Type of Bond:	Ceramic
Main Applications:	General Uses

(Steel & Cement Industries as well as Chemical & Nonferrous Industries at Low temp. situs)

Chemical Composition (%) (Calcined Base):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
42-45	46-48	< 2.5	4-5.5

Physical Properties :

Bulk Density (gr/cm ³):	2.28 - 2.3
C.C.S. (Cold Crushing Strength)(kg/cm ³):	400 - 550
Apparent Porosity (%):	14 - 18
M.O.R. (Modulus of Rupture)(kg/cm ²):	>50

Thermomechanical Properties :

R.U.L.(Refractoriness under Load) (°C):	> 1340
Refractoriness (°C):	> 1720
Reversible Linear Thermal Expansion (1100°C) (%):	< 0.5
Thermal Shock (Cycle):	7 - 20

Considerations :

The above data are typical of the properties of commercial standard brick.

The data are subject to reasonable variation and therefore should not be used for specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties.

ASTM Test Methods, where applicable, used for determination of data

PAK - Code 2

Classification:	High Duty Fireclay Brick
Main Raw Material Component:	Fireclay (Chamotte)
Type of Bond:	Ceramic
Main Applications:	General Uses

(Steel & Cement Industries as well as Chemical & Nonferrous Industries at Low temp. situs)

Chemical Composition (%) (Calcined Base):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
39-42	48-50	< 4	4-5.5

Physical Properties :

Bulk Density (gr/cm ³) :	2.25 - 2.3
C.C.S. (Cold Crushing Strength)(kg/cm ³) :	400 - 550
Apparent Porosity (%) :	14 - 18
M.O.R.(Modulus of Rupture) (kg/cm ²) :	>50

Thermomechanical Properties :

R.U.L.(Refractoriness under Load) (°C):	> 1300
Refractoriness (°C):	> 1650
Reversible Linear Thermal Expansion (1100°C) (%):	< 0.6
Thermal Shock (Cycle):	15 - 18

Considerations :

The above data are typical of the properties of commercial standard brick.

The data are subject to reasonable variation and therefore should not be used for specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties.

ASTM Test Methods, where applicable, used for determination of data

PAK - ALMA 50

Classification:	Medium Alumina Brick
Main Raw Material Component:	Bauxite - Chamotte
Type of Bond:	Ceramic
Main Applications:	Various purposes

(Steel & Cement Industries as well as Chemical & Nonferrous Industries at Low temp. situs)

Chemical Composition (%) (Calcined Base):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
48-51	40-45	< 2	4-5.5

Physical Properties :

Bulk Density (gr/cm³):	2.28 - 2.3
C.C.S. (Cold Crushing Strength)(kg/cm²):	400 - 600
Apparent Porosity (%):	14 - 18
M.O.R. (Modulus of Rupture)(kg/cm²):	>70

Thermomechanical Properties :

R.U.L.(Refractoriness under Load) (°C):	> 1360
Refractoriness (°C):	> 1720
Reversible Linear Thermal Expansion (1100°C) (%):	< 0.5
Thermal Shock (Cycle):	> 20

Considerations :

The above data are typical of the properties of commercial standard brick.

The data are subject to reasonable variation and therefore should not be used for specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties.

ASTM Test Methods, where applicable, used for determination of data

PAK - ALMA 60

Classification:	Medium Alumina Brick
Main Raw Material Component:	Bauxite - Chamotte
Type of Bond:	Ceramic
Main Applications:	Various purposes

(Steel & Cement Industries as well as Chemical & Nonferrous Industries at Low temp. situs)

Chemical Composition (%) (Calcined Base):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
58-61	31-35	< 3	4-5.5

Physical Properties :

Bulk Density (gr/cm³) :	> 2.3
C.C.S. (Cold Crushing Strength)(kg/cm²) :	400 - 600
Apparent Porosity (%) :	14 - 18
M.O.R.(Modulus of Rupture) (kg/cm²) :	>70

Thermomechanical Properties :

R.U.L.(Refractoriness under Load) (°C):	> 1380
Refractoriness (°C):	> 1760
Reversible Linear Thermal Expansion (1100°C) (%):	< 0.5
Thermal Shock (Cycle):	> 25

Considerations :

The above data are typical of the properties of commercial standard brick.

The data are subject to reasonable variation and therefore should not be used for specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties.

ASTM Test Methods, where applicable, used for determination of data

PAK - ALMA 70

Classification:	Medium Alumina Brick
Main Raw Material Component:	Bauxite - Chamotte
Type of Bond:	Ceramic
Main Applications:	Various purposes

(Steel & Cement Industries as well as Chemical & Nonferrous Industries at Low temp. situs)

Chemical Composition (%) (Calcined Base):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
67-72	21-25	< 3	3-4.5

Physical Properties :

Bulk Density (gr/cm³):	> 2.35
C.C.S. (Cold Crushing Strength)(kg/cm²):	400 - 600
Apparent Porosity (%):	14 - 18
M.O.R. (Modulus of Rupture)(kg/cm²):	>70

Thermomechanical Properties :

R.U.L.(Refractoriness under Load) (°C):	> 1380
Refractoriness (°C):	> 1790
Reversible Linear Thermal Expansion (1100°C) (%):	< 0.5
Thermal Shock (Cycle):	> 25

Considerations :

The above data are typical of the properties of commercial standard brick.

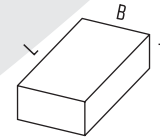
The data are subject to reasonable variation and therefore should not be used for specification purposes. They may not be regarded as committed specifications and therefore not as guaranteed properties.

ASTM Test Methods, where applicable, used for determination of data



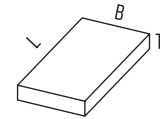


Standard



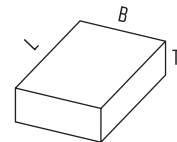
Sign	Dimension (mm)			Volume (dm³)
	L	B	T	
NF1	230	114	64	1.678
NF3	250	124	64	1.984
NF3	300	150	64	2.880
NF1-76	230	114	76	1.993
NF2-76	250	124	76	2.356
NF3-76	300	150	76	3.420

Plates



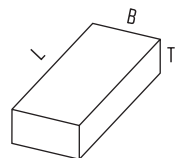
Sign	Dimension (mm)			Volume (dm³)
	L	B	T	
Nf1-32	230	114	32	0.839
NF2-32	250	124	32	0.992
NF3-32	300	150	32	1.440
NF1-38	230	114	38	0.996
NF2-38	250	124	38	1.178
NF3-38	300	150	38	1.710

Bonders



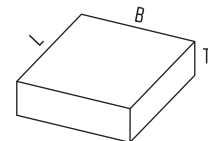
Sign	Dimension (mm)			Volume (dm³)
	L	B	T	
1B	230	172	64	2.532
2B	250	187	64	2.992
3B	300	225	64	4.320
1B-76	230	172	76	3.007
2B-76	250	187	76	3.553
3B-76	300	225	76	5.130

Whelps



Sign	Dimension (mm)			Volume (dm³)
	L	B	T	
1L	345	114	64	2.517
2L	375	124	64	2.976
3L	450	150	64	4.320
1L-76	345	114	76	2.989
2L-76	375	124	76	3.534
3L-76	450	150	76	5.130

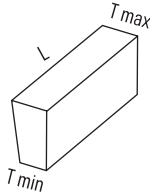
Double Straights



Sign	Dimension (mm)			Volume (dm³)
	L	B	T	
1D	230	230	64	3.686
2D	250	250	64	4.000
3D	300	300	64	5.760
1D-76	230	230	76	4.020
2D-76	250	250	76	4.750
3D-76	300	300	76	6.840



Side Arch Bricks (L-Group)



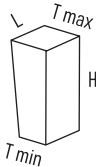
Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
1H6	345	114	67	61	2.517	255	119
1H10	345	114	69	59	2.517	157	72
1H16	345	114	72	56	2.517	103	45
1H24	345	114	76	52	2.517	72	30
1H50	345	114	89	39	2.517	41	14
1H6-76	345	114	79	73	2.989	300	119
1H10-76	345	114	81	71	2.989	185	72
1H16-76	345	114	84	68	2.989	120	45
1H24-76	345	114	88	64	2.989	84	30
1H50-76	345	114	101	51	2.989	46	14
2H6	375	124	67	61		277	130
2H10	375	124	69	59		171	78
2H16	375	124	72	56		112	49
2H24	375	124	76	52		79	32
2H50	375	124	89	39		44	16
2H6-76	375	124	79	73		327	130
2H10-76	375	124	81	71		201	78
2H16-76	375	124	84	68		130	49
2H24-76	375	124	88	64		91	32
2H50-76	375	124	101	51		50	16
3H6	450	150	67	61		335	157
3H10	450	150	69	59		207	94
3H16	450	150	72	56		135	59
3H24	450	150	76	52		95	39
3H50	450	150	89	39		83	19
6H6-76	450	150	79	73		395	157
3H10-76	450	150	81	71		243	94
3H16-76	450	150	84	68		158	59
3H24-76	450	150	88	64		110	39
3H50-76	450	150	101	51		61	19

External Diameter with 0 mm Joint (No Mortar)



Side Arch Bricks (L-Group)

End Arch Bricks (Wedges)



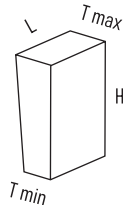
Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
1G4	114	230	66	62	1.678	759	361
1G6	114	230	67	61	1.678	514	241
1G10	114	230	69	59	1.678	317	145
1G16	114	230	72	56	1.678	207	90
1G24	114	230	76	52	1.678	146	60
1G50	114	230	89	39	1.678	82	29
1G4-76	114	230	78	74	1.993	897	361
1G6-76	114	230	79	73	1.993	606	241
1G10-76	114	230	81	71	1.993	373	145
1G16-76	114	230	84	68	1.993	242	90
1G24-76	114	230	88	64	1.993	169	60
1G50-76	114	230	101	51	1.993	93	29
2G4	124	250	66	62	1.984	825	393
2G6	124	250	67	61	1.984	558	262
2G10	124	250	69	59	1.984	345	157
2G16	124	250	72	56	1.984	225	96
2G24	124	250	76	52	1.984	158	65
2G50	124	250	89	39	1.984	89	31
2G4-76	124	250	78	74	2.356	975	393
2G6-76	124	250	79	73	2.356	658	262
2G10-76	124	250	81	71	2.356	405	157
2G16-76	124	250	84	68	2.356	263	68
2G24-76	124	250	88	64	2.356	183	65
2G50-76	124	250	101	51	2.356	101	31

External Diameter with 0 mm Joint (No Mortar)



End Arch Bricks (Wedges)

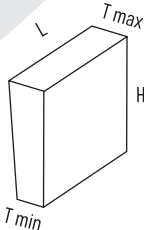
End Arch
Bonders



Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
1GB4	172	230	66	62	2.532	759	361
1GB6	172	230	67	61	2.532	514	241
1GB10	172	230	69	59	2.532	317	145
1GB16	172	230	72	56	2.532	207	90
1GB24	172	230	76	52	2.532	146	60
1GB50	172	230	89	39	2.532	82	29
1GB4-76	172	230	78	74	3.007	897	361
1GB6-76	172	230	79	73	3.007	606	241
1GB10-76	172	230	81	71	3.007	373	145
1GB16-76	172	230	54	68	3.007	242	90
1GB24-76	172	230	88	64	3.007	169	60
1GB50-76	172	230	101	51	3.007	93	29
2GB4	187	250	66	62	2.992	825	393
2GB6	187	250	67	61	2.992	558	262
2GB10	187	250	69	59	2.992	345	157
2GB16	187	250	72	56	2.992	225	96
2GB24	187	250	76	52	2.992	158	65
2GB50	187	250	89	39	2.992	89	31
2GB4-76	187	250	78	74	3.553	975	393
2GB6-76	187	250	79	73	3.553	658	262
2GB10-76	187	250	81	71	3.553	405	157
2GB16-76	187	250	54	68	3.553	263	68
2GB24-76	187	250	88	64	3.553	183	65
2GB50-76	187	250	101	51	3.553	101	31

External Diameter with 0 mm Joint (No Mortar)

Double Arch
Bricks



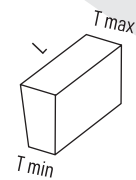
Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
1GG4	230	230	66	62	3.386	759	361
1GG6	230	230	67	61	3.386	514	241
1GG10	230	230	69	59	3.386	317	145
1GG16	230	230	72	56	3.386	207	90
1GG24	230	230	76	52	3.386	146	60
1GG50	230	230	89	39	3.386	82	29
1GG4-76	230	230	78	74	4.020	897	361
1GG6-76	230	230	79	73	4.020	606	241
1GG10-76	230	230	81	71	4.020	373	145
1GG16-76	230	230	54	68	4.020	242	90
1GG24-76	230	230	88	64	4.020	169	60
1GG50-76	230	230	101	51	4.020	93	29
2GG4	250	250	66	62	4.000	825	393
2GG6	250	250	67	61	4.000	558	262
2GG10	250	250	69	59	4.000	345	157
2GG16	250	250	72	56	4.000	225	96
2GG24	250	250	76	52	4.000	158	65
2GG50	250	250	89	39	4.000	89	31
2GG4-76	250	250	78	74	4.750	975	393
2GG6-76	250	250	79	73	4.750	658	262
2GG10-76	250	250	81	71	4.750	405	157
2GG16-76	250	250	54	68	4.750	263	68
2GG24-76	250	250	88	64	4.750	183	65
2GG50-76	250	250	101	51	4.750	101	31

External Diameter with 0 mm Joint (No Mortar)

E n d A r c h B o n d e r s



Side Arch Bricks (Arches)



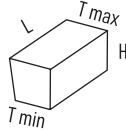
Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
1H6	230	114	67	61	1.678	255	119
1H10	230	114	69	59	1.678	157	72
1H16	230	114	72	56	1.678	103	45
1H24	230	114	76	52	1.678	72	30
1H50	230	114	89	39	1.678	41	14
1H6-76	230	114	79	73	1.993	300	119
1H10-76	230	114	81	71	1.993	185	72
1H16-76	230	114	84	68	1.993	120	45
1H24-76	230	114	88	64	1.993	84	30
1H50-76	230	114	101	51	1.993	46	14
2H6	250	124	67	61	1.984	277	130
2H10	250	124	69	59	1.984	171	78
2H16	250	124	72	56	1.984	112	49
2H24	250	124	76	52	1.984	79	32
2H50	250	124	89	39	1.984	44	16
2H6-76	250	124	79	73	2.356	327	130
2H10-76	250	124	81	71	2.356	201	78
2H16-76	250	124	84	68	2.356	130	49
2H24-76	250	124	88	64	2.356	91	32
2H50-76	250	124	101	51	2.356	50	16
3H6	300	150	67	61	2.880	335	157
3H10	300	150	69	59	2.880	207	94
3H16	300	150	72	56	2.880	135	59
3H24	300	150	76	52	2.880	95	39
3H50	300	150	89	39	2.880	83	19
6H6-76	300	150	79	73	3.420	395	157
3H10-76	300	150	81	71	3.420	243	94
3H16-76	300	150	84	68	3.420	158	59
3H24-76	300	150	88	64	3.420	110	39
3H50-76	300	150	101	51	3.420	61	19

External Diameter with 0 mm Joint (No Mortar)



Rotary Kiln Bricks (ISO Series)

Part 1



Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
ISO 210	198	100	103	92.7	1.937	200	61
ISO 310	198	100	103	96.1	1.971	299	91
ISO 410	198	100	103	97.9	1.989	404	123
ISO 510	198	100	103	99.6	2.006	606	185
ISO 810	198	100	103	100	2.014	792	242
410 2/3	198	100	68.7	63.6	1.310	269	123
410 3/4	198	100	77.3	72.2	1.480	303	123

External Diameter with 0 mm Joint (No Mortar)

Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
ISO 216	198	160	103	86	2.994	194	59
ISO 316	198	160	103	92	3.089	300	91
ISO 416	198	160	103	94.5	3.128	388	118
ISO 516	198	160	103	96.5	3.160	507	155
ISO 616	198	160	103	97.5	3.176	599	183
410 716	198	160	103	98.3	3.189	701	214

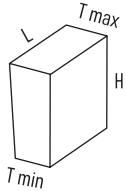
External Diameter with 0 mm Joint (No Mortar)

Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
ISO 218	198	180	103	84	3.332	195	60
ISO 318	198	180	103	90.5	3.448	297	90
ISO 418	198	180	103	93.5	3.502	390	119
ISO 518	198	180	103	95.5	3.537	494	151
ISO 618	198	180	103	97	3.564	618	188
ISO 718	198	180	103	97.7	3.576	700	213
ISO 818	198	180	103	98.3	3.587	789	241
418 2/3	198	180	68.7	59.2	2.279	260	119
418 3/4	198	180	77.3	67.8	2.586	293	119

External Diameter with 0 mm Joint (No Mortar)

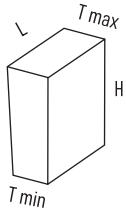
Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
ISO 220	198	200	103	82	3.663	196	60
ISO 320	198	200	103	89	3.802	294	90
ISO 420	198	200	103	92.5	3.871	392	120
ISO 520	198	200	103	94.7	3.914	496	151
ISO 620	198	200	103	96.2	3.944	606	185
ISO 720	198	200	103	97	3.960	687	209
ISO 820	198	200	103	97.8	3.976	792	242
420 2/3	198	200	68.7	58.2	2.513	262	120
420 3/4	198	200	77.3	72.1	2.958	595	242

External Diameter with 0 mm Joint (No Mortar)



Rotary Kiln Bricks (ISO Series)

Part 2



Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	H	T max	T min			
ISO 322	198	220	103	88	4.3160	302	92
ISO 422	198	220	103	91.5	4.236	394	120
ISO 522	198	220	103	94	4.291	504	154
ISO 622	198	220	103	95.5	4.323	604	184
ISO 722	198	220	103	96.5	4.345	697	213
410 822	198	220	103	97.3	4.363	795	243

External Diameter with 0 mm Joint (No Mortar)

Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
ISO 425	198	250	103	90	4.777	396	121
ISO 525	198	250	103	92.7	4.884	500	153
ISO 625	198	250	103	94.5	4.888	606	185
ISO 725	198	250	103	95.5	4.913	687	209
ISO 825	198	250	103	96.5	4.938	792	242
425 2/3	198	250	68.7	55.7	3.079	264	121
825 3/4	198	250	77.3	70.8	3.665	595	242

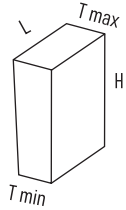
External Diameter with 0 mm Joint (No Mortar)

Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
ISO 220L	300	200	103	82	5.550	196	60
ISO 320L	300	200	103	89	5.760	294	90
ISO 420L	300	200	103	92.5	5.865	392	120
ISO 620L	300	200	103	96.2	9.976	606	185
ISO 820L	300	200	103	97.8	6.024	792	242
420 2/3L	300	200	68.7	58.2	3.807	262	120
820 3/4L	300	200	77.3	72.1	4.482	595	242

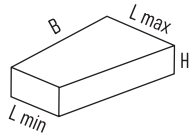
External Diameter with 0 mm Joint (No Mortar)

Sign	Dimension (mm)				Volume (dm³)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
ISO 230L	200	300	103	72.1	5.253	200	91
ISO 330L	200	300	103	82	5.550	294	90
ISO 430L	200	300	103	87.6	5.718	401	122
ISO 630L	200	300	103	92.5	5.865	589	180
ISO 830L	200	300	103	95.2	5.946	792	242
430 2/3L	200	300	68.7	53.6	3.660	268	122
830 3/4L	200	300	77.3	69.5	4.404	595	242

External Diameter with 0 mm Joint (No Mortar)



Key Bricks



Sign	Dimension (mm)				Volume (dm^3)	External Diameter (cm)	Number per Ring
	L	B	T max	T min			
1Q10	119	109	230	64	1.678	547	145
1Q14	121	107	230	64	1.678	398	103
1Q28	128	100	230	64	1.678	210	52
1Q50	139	89	230	64	1.678	128	29
2Q10	129	119	250	64	1.984	645	157
2Q14	131	117	250	64	1.984	468	112
2Q28	138	110	250	64	1.984	246	56
2Q50	149	99	250	76	1.984	149	31
Q61	116	110	300	76	2.576	1160	314
Q31	121	110	300	76	2.633	660	171
Q081	152	110	300	76	2.987	217	45
Q62	117	110	375	76	3.235	1254	327
Q082	163	110	375	76	3.890	231	44
2Q13-76	113	100	350	76	2.024	435	121

External Diameter with 0 mm Joint (No Mortar)

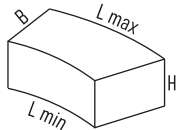
Sign (D in)	Dimension (mm)				Volume (dm^3)	External Diameter (cm)	Number per Ring
	L max	L min	B	H			
50	222	157	104	64	1.263	70.8	10
70	237	183	103	64	1.386	90.6	12
90	218	177	106	64	1.340	111.2	16
50-76	222	157	104	76	1.500	70.8	10
70-76	237	183	103	76	1.646	90.6	12
90-76	218	177	106	76	1.591	111.2	16

External Diameter with 0 mm Joint (No Mortar)

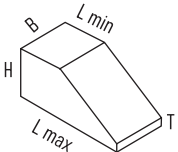
Sign (D in)	Dimension (mm)					Volume (dm^3)
	L max	L min	B	H	T	
	250	100	100	290	30	5.300
	230	115	114	240	37	4.962
	263	250	124	76	0	2.417

External Diameter with 0 mm Joint (No Mortar)

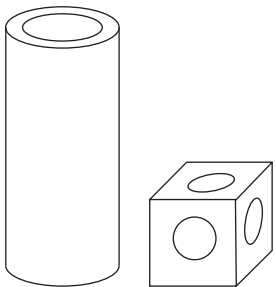
Circle Bricks



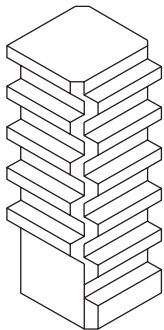
Support Bricks



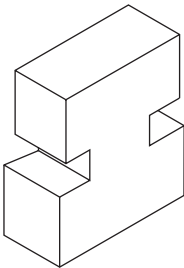
Foundry Parts



Ceramic Anchors



Rail Brick



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