VIII - Refractario y Hormigón Pretensado

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Refractory Materials

Prestressed Concrete

[Silent Cores] VIII-17

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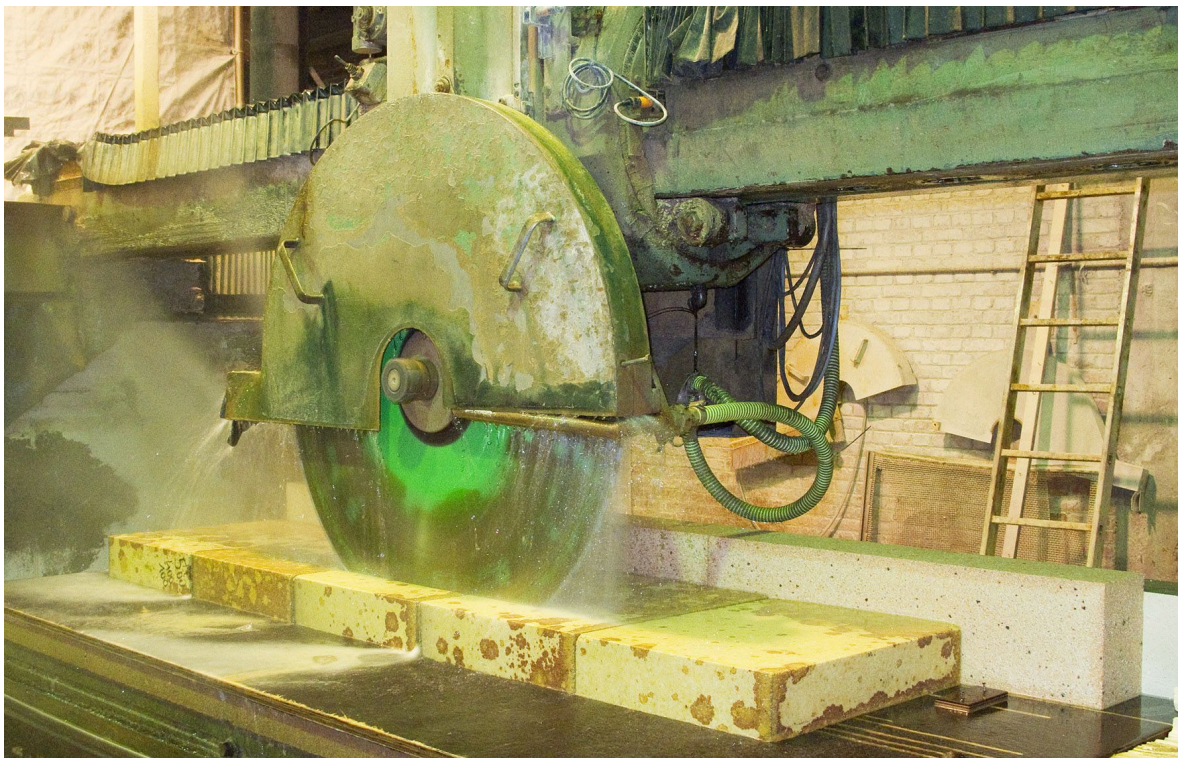
[Refractory Materials]

MAT

- Fused cast refractories : Essentially used in the glass industry. Component of the glass furnaces in direct contact with the molten glass.
  Specifications : RZF, RZE
- Alumina-silicate refractories : They have high refractoriness, resistant to deterioration and influences of melted metal, slag and others melts. Used in non-ferrous and ferrous metallurgy, cement industry, glass industry, ceramic industry, etc
  Specifications : RSA, RC
- Silicon-carbide refractories : Used in ceramic and porcelain industry, as well as in non-ferrous and ferrous metallurgy
  Specification : RSA
- Basic refractories : Used for working linings in ferrous and non-ferrous metallurgy
  Specification : RBT
- Insulating refractories : Used for thermal insulation on high temperatures, and in non-ferrous and ferrous metallurgy, petrochemical industry, refractory industry, ceramic industry, etc
  Specifications : RSA, RC



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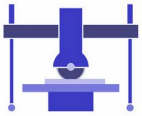
RZF

[Electrofused]

- Zac, AZS, zircon, corindon, Zirkosit, Jargall, melted basalt, basaltine

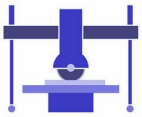


Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
300	25,4	21	40	10	2,8	SN	RZF0027
350	25,4	25	40	10	2,8	SN	RZF0026
400	25,4	28	40	10	2,8	SN	RZF0028
450	25,4	32	40	10	3,2	SN	RZF0024
500	25,4	36	40	10	3,6	SN	RZF0025
600	60	42	40	7,5	4,7	SN	RZF0021
650	60	46	40	7,5	4,7	SN	RZF0022
700	60	50	40	7,5	5,5	SN	RZF0029
725	60	50	40	7,5	5,5	SN	RZF0036
750	60	54	40	7,5	5,5	SN	RZF0032
800	60	57	40	7,5	5,5	SN	RZF0023
900	60	64	40	7,5	7,0	SN	RZF0014
1000	60	70	40	7,5	7,0	SN	RZF0010
1200	60	82	40	7,5	7,5	SN	RZF0020

RZF Sil.

[Electrofused Silent]

- Zac, AZS, zircon, corindon, Zirkosit, Jargall, melted basalt, basaltine
- "Sandwich" silent cores



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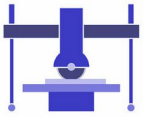
300	25,4	21	40	10	2,8	SN	RZFS027
350	25,4	25	40	10	2,8	SN	RZFS026
400	25,4	28	40	10	3,2	SN	RZFS028
450	25,4	32	40	10	3,6	SN	RZFS024
500	25,4	36	40	10	3,6	SN	RZFS025
600	60	42	40	7,5	4,7	SN	RZFS021
650	60	46	40	7,5	4,7	SN	RZFS022
700	60	50	40	7,5	5,5	SN	RZFS029
725	60	50	40	7,5	5,5	SN	RZFS040
750	60	54	40	7,5	5,5	SN	RZFS032
800	60	57	40	7,5	5,5	SN	RZFS023
900	60	64	40	7,5	7,0	SN	RZFS014
1000	60	70	40	7,5	7,0	SN	RZFS010

[Electrofused Silent] *(continued)*

RZF Sil.

- Zac, AZS, zircon, corindon, Zirkosit, Jargall, melted basalt, basaltine
- "Sandwich" silent cores



Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
1200	60	82	40	7,5	7,5	SN	**RZFS020**

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RZE

[Electrofused]

- Zac, AZS, zircon, corindon, Zirkosit, Jargall, melted basalt, basaltine
- High power machine

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
450	25,4	32	40	10	3,6	SN	**RZE0015**
450	25,4	32	40	13	3,6	SN	**RZE1301**
500	25,4	36	40	10	3,6	SN	**RZE0016**
500	25,4	36	40	13	3,6	SN	**RZE1302**

RZE Sil.

[Electrofused Silent]

- Zac, AZS, zircon, corindon, Zirkosit, Jargall, melted basalt, basaltine
- High power machine
- "Sandwich" silent cores

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
450	25,4	32	40	10	3,6	SN	**RZES015**
450	25,4	32	40	13	3,6	SN	**RZES301**
500	25,4	36	40	10	3,6	SN	**RZES016**
500	25,4	36	40	13	3,6	SN	**RZES302**

[Silicon-Alumina]

RSA

- Refractory products, alumina-silicate (42% to 85% alumine-silicate, Silimanite, density 2 to 3,8), silicon carbides, insulating materials

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
300	25,4	21	40	10	2,8	SN	**RSA0101**
350	25,4	25	40	10	2,8	SN	**RSA0102**
400	25,4	28	40	10	3,6	SN	**RSA0103**
450	25,4	32	40	10	3,6	SN	**RSA0104**
500	25,4	36	40	10	3,6	SN	**RSA0105**

[Silico-Alumina Silent]

RSA Laser Sil.

- Refractory products, alumina-silicate (42 to 85 % alumine-silicate, Silimanite, density 2 to 3,8), silicon carbide, insulating materials
- "Sandwich" silent core
- Laser welding

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
525	25,4	36	40	13	3,6	SN	**RSAS114**

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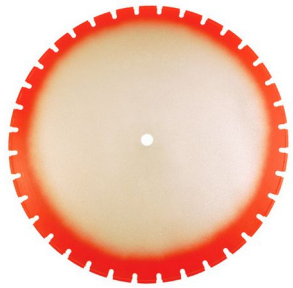
RSA

[Silicon-Alumina]



- Refractory products, alumina-silicate (42 to 85 % alumine-silicate, Silimanite, density 2 to 3,8), silicon carbide, insulating materials

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
350	25,4	25	40	10	2,8	SN	**RSA0102FD**
400	25,4	28	40	10	3,6	SN	**RSA0103FD**
450	25,4	32	40	10	3,6	SN	**RSA0104FD**
450	25,4	26	40	10	3,6	SN	**RSA0121FD**
500	25,4	36	40	10	3,6	SN	**RSA0105FD**
600	25,4	36	40	7,5	4,5	SN	**RSA0106**
650	25,4	38	40	7,5	4,5	SN	**RSA0107**
725	60	40	40	7,5	5,1	SN	**RSA0127**
800	60	46	40	7,5	5,5	SN	**RSA0112**
900	60	64	24	7,5	7,0	SN	**RSA0108**
1000	100	70	24	7,5	7,0	SN	**RSA0110**
1200	100	80	24	7,5	8,0	SN	**RSA0131**

RSA Sil.

[Silico-Alumina Silent]

- Refractory products, alumina-silicate (42 to 85 % alumine-silicate, Silimanite, density 2 to 3,8), silicon carbide, insulating materials
- "Sandwich" silent core

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
350	25,4	25	40	10	2,8	SN	**RSAS102FD**
400	25,4	28	40	10	3,6	SN	**RSAS103FD**
450	25,4	26	40	10	3,6	SN	**RSAS121FD**
450	25,4	32	40	10	3,6	SN	**RSAS104FD**
500	25,4	36	40	10	3,6	SN	**RSAS105FD**
525	25,4	36	40	13	3,6	SN	**RSAS114**
600	25,4	36	40	7,5	4,5	SN	**RSAS106**
650	25,4	38	40	7,5	4,5	SN	**RSAS107**
725	60	40	40	7,5	5,1	SN	**RSAS127**
800	60	46	40	7,5	5,5	SN	**RSAS132**
900	60	64	24	7,5	7,0	SN	**RSAS108**
1000	100	70	24	7,5	7,0	SN	**RSAS110**
1200	100	80	24	7,5	8,0	SN	**RSAS131**

[Highly Abrasive]

RC

- TurboStart (self-sharpening segments)
- Sicanite, C104, silicon carbide, corindon with chromium oxide, light insulating bricks, etc (density 0,8 to 3,5)

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
400	25,4	28	40	10	3,2	SN	**RC0102**
450	25,4	32	40	10	3,6	SN	**RC0103**
450	25,4	32	40	10	3,9	SN	**RC0104**
500	25,4	36	40	10	3,9	SN	**RC0105**
600	25,4	42	40	7,5	4,5	SN	**RC0013**
650	25,4	46	40	7,5	4,5	SN	**RC0014**
900	100	64	24	7,5	7,0	SN	**RC0016**

[Highly Abrasive Silent]

RC Sil.

- TurboStart (self-sharpening segments)
- Sicanite, C104, silicon carbide, corindon with chromium oxide, light insulating bricks, etc (density de 0,8 to 3,5)
- "Sandwich" silent core

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
350	25,4	25	40	10	3,2	SN	**RCS101**
400	25,4	28	40	10	3,2	SN	**RCS102**
450	25,4	32	40	10	3,6	SN	**RCS103**
450	25,4	32	40	10	3,9	SN	**RCS104**
500	25,4	36	40	10	3,9	SN	**RCS105**
600	25,4	42	40	7,5	4,5	SN	**RCS013**
650	25,4	46	40	7,5	4,5	SN	**RCS014**
900	100	64	24	7,5	7,0	SN	**RCS016**

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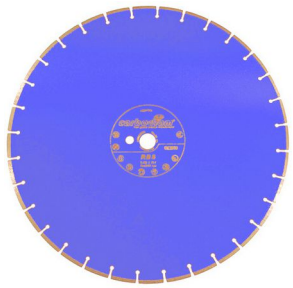
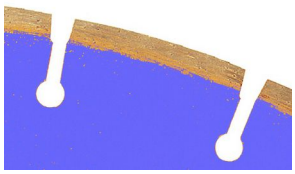
RBT

[Basic Refractory]



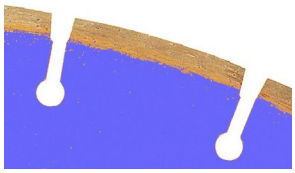


- Magnesite, chromium-magnesite, dolomite, dolomite with carbon resin, graphite Anker-D, light insulating bricks, etc…(density > 3).

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
450	25,4	26	40	10	3,6	SN	**RBT0001**
500	25,4	30	40	10	3,6	SN	**RBT0002**
600	25,4	36	40	7,5	4,5	SN	**RBT0003**
650	25,4	38	40	7,5	4,5	SN	**RBT0005**
725	60	40	40	7,5	5,1	SN	**RBT0007**

RBT Sil.

[Basic Refractory Silent]

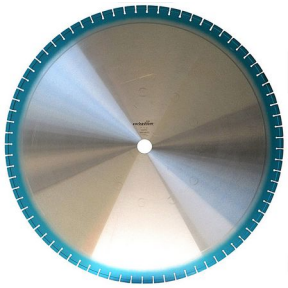


- Magnesite, chromium-magnesite, dolomite, dolomite with carbon resin, graphite Anker-D, light insulating bricks, etc…(density > 3).
- "Sandwich" silent core

Ø	Bore	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
450	25,4	26	40	10	3,6	SN	**RBTS001**
500	25,4	30	40	10	3,6	SN	**RBTS002**
600	25,4	36	40	7,5	4,5	SN	**RBTS003**
650	25,4	38	40	7,5	5,1	SN	**RBTS005**
725	60	40	40	7,5	5,1	SN	**RBTS007**

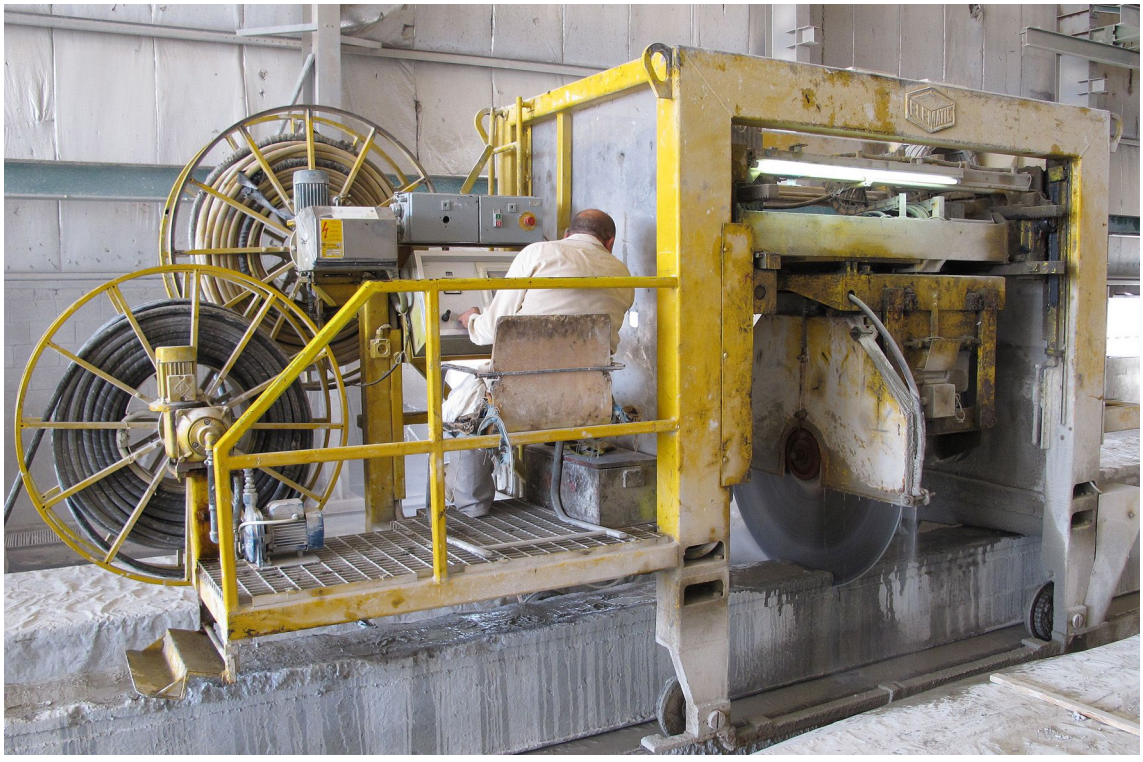
[Codification]

- Rules for codifying prestressed concrete blades



P 11 C 3 3 15 DS / 194

- DS / 194 — Peg holes dwg reference (optional)
- DS — Drop Segments (optional)
- 15 — Serial n°
- 3 — 0 => Ht : 10 mm; 3 => Ht : 13 mm
- 3 — Bond Reference
- C — C = Standard Steel Core; L = Laser Cut Silent Steel Core; S = Sandwich Silent Steel Core; D = Segment
- 11 — Diamond Concentration



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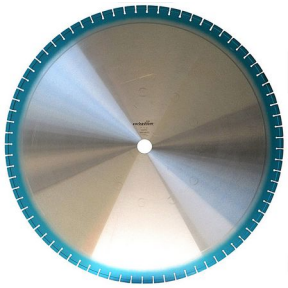
P10C

[Hard Aggregates]



- Selection of the specification according to the type of aggregates
- Machine > 40 KW

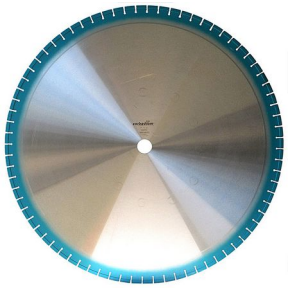
Ø	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
600	42	40	10	5,1	SN	P1C(Y)012
600	42	40	10	5,5	SN	P1C(Y)021
600	42	40	13	5,1	SN	P1C(Y)301
600	42	40	13	5,5	SN	P1C(Y)302
700	50	40	10	5,5	SN	P1C(Y)014
700	50	40	10	6,0	SN	P1C(Y)022
700	50	40	13	5,5	SN	P1C(Y)303
700	50	40	13	6,0	SN	P1C(Y)304
800	57	40	10	6,5	SN	P1C(Y)020
800	57	40	10	7,0	SN	P1C(Y)023
800	57	40	13	6,5	SN	P1C(Y)305
800	57	40	13	7,0	SN	P1C(Y)306
850	58	40	10	6,5	SN	P1C(Y)024
850	58	40	10	7,0	SN	P1C(Y)025
850	58	40	13	6,5	SN	P1C(Y)307
850	58	40	13	7,0	SN	P1C(Y)308
900	64	40	10	7,0	SN	P1C(Y)026
900	64	40	10	7,5	SN	P1C(Y)027
900	64	40	13	7,0	SN	P1C(Y)309
900	64	40	13	7,5	SN	P1C(Y)310
1000	70	40	10	7,0	SN	P1C(Y)028
1000	70	40	10	7,5	SN	P1C(Y)029
1000	70	40	13	7,0	SN	P1C(Y)311
1000	70	40	13	7,5	SN	P1C(Y)312
1100	76	40	10	7,5	SN	P1C(Y)030
1100	76	40	10	8,0	SN	P1C(Y)031
1100	76	40	13	7,5	SN	P1C(Y)313
1100	76	40	13	8,0	SN	P1C(Y)314
1200	82	40	10	8,0	SN	P1C(Y)032
1200	82	40	10	8,5	SN	P1C(Y)033
1200	82	40	13	8,0	SN	P1C(Y)315
1200	82	40	13	8,5	SN	P1C(Y)316
1300	88	40	10	8,0	SN	P1C(Y)034
1300	88	40	10	8,5	SN	P1C(Y)035
1300	88	40	13	8,0	SN	P1C(Y)317
1300	88	40	13	8,5	SN	P1C(Y)318

Please specify bore hole and pin holes
(Y) determines the bond. Please contact us to determine the specification
- (Y) = 1 for 700000/280000 - (Y) = 6 for 280000/250000
- (Y) = 2 for 740000/700000 - (Y) = 7 for 780027/780000
- (Y) = 3 for 740027/740000 - (Y) = 8 for 770037/770017
- (Y) = 4 for 740037/740017 - (Y) = 9 for 770027/770000
- (Y) = 5 for 740047/740027

[Hard Aggregates]

P11C

- Selection of the specification according to the type of aggregates
- Machine > 50 KW



Ø	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
600	42	40	10	5,1	SN	P11C(Y)001
600	42	40	10	5,5	SN	P11C(Y)002
600	42	40	13	5,1	SN	P11C(Y)301
600	42	40	13	5,5	SN	P11C(Y)302
700	50	40	10	5,5	SN	P11C(Y)003
700	50	40	10	6,0	SN	P11C(Y)004
700	50	40	13	5,5	SN	P11C(Y)303
700	50	40	13	6,0	SN	P11C(Y)304
800	57	40	10	6,5	SN	P11C(Y)005
800	57	40	10	7,0	SN	P11C(Y)006
800	57	40	13	6,5	SN	P11C(Y)305
800	57	40	13	7,0	SN	P11C(Y)306
850	58	40	10	6,5	SN	P11C(Y)007
850	58	40	10	7,0	SN	P11C(Y)008
850	58	40	13	6,5	SN	P11C(Y)307
850	58	40	13	7,0	SN	P11C(Y)308
900	64	40	10	7,0	SN	P11C(Y)009
900	64	40	10	7,5	SN	P11C(Y)010
900	64	40	13	7,0	SN	P11C(Y)309
900	64	40	13	7,5	SN	P11C(Y)310
1000	70	40	10	7,0	SN	P11C(Y)011
1000	70	40	10	7,5	SN	P11C(Y)012
1000	70	40	13	7,0	SN	P11C(Y)311
1000	70	40	13	7,5	SN	P11C(Y)312
1100	76	40	10	7,5	SN	P11C(Y)013
1100	76	40	10	8,0	SN	P11C(Y)014
1100	76	40	13	7,5	SN	P11C(Y)313
1100	76	40	13	8,0	SN	P11C(Y)314
1200	82	40	10	8,0	SN	P11C(Y)015
1200	82	40	10	8,5	SN	P11C(Y)016
1200	82	40	13	8,0	SN	P11C(Y)315
1200	82	40	13	8,5	SN	P11C(Y)316
1300	88	40	10	8,0	SN	P11C(Y)017
1300	88	40	10	8,5	SN	P11C(Y)018
1300	88	40	13	8,0	SN	P11C(Y)317
1300	88	40	13	8,5	SN	P11C(Y)318

Please specify bore hole and pin holes
(Y) determines the bond. Please contact us to determine the specification
- (Y) = 1 for 700000/280000 - (Y) = 6 for 280000/250000
- (Y) = 2 for 740000/700000 - (Y) = 7 for 780027/780000
- (Y) = 3 for 740027/740000 - (Y) = 8 for 770037/770017
- (Y) = 4 for 740037/740017 - (Y) = 9 for 770027/770000
- (Y) = 5 for 740047/740027

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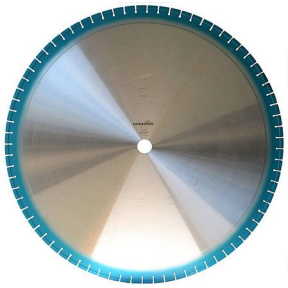
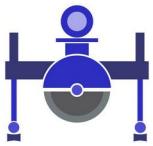
P12C

[Hard Aggregates]



- Selection of the specification according to the type of aggregates
- Machine > 50 KW

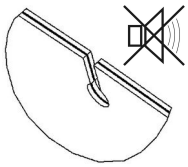


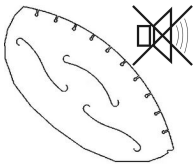
Ø	No. Segm.	Segm. Length	Segm. Height	Segm. Width	Stock	Code
600	42	40	10	5,1	SN	P12C(Y)001
600	42	40	10	5,5	SN	P12C(Y)002
600	42	40	13	5,1	SN	P12C(Y)301
600	42	40	13	5,5	SN	P12C(Y)302
700	50	40	10	5,5	SN	P12C(Y)003
700	50	40	10	6,0	SN	P12C(Y)004
700	50	40	13	5,5	SN	P12C(Y)303
700	50	40	13	6,0	SN	P12C(Y)304
800	57	40	10	6,5	SN	P12C(Y)005
800	57	40	10	7,0	SN	P12C(Y)006
800	57	40	13	6,5	SN	P12C(Y)305
800	57	40	13	7,0	SN	P12C(Y)306
850	58	40	10	6,5	SN	P12C(Y)007
850	58	40	10	7,0	SN	P12C(Y)008
850	58	40	13	6,5	SN	P12C(Y)307
850	58	40	13	7,0	SN	P12C(Y)308
900	64	40	10	7,0	SN	P12C(Y)009
900	64	40	10	7,5	SN	P12C(Y)010
900	64	40	13	7,0	SN	P12C(Y)309
900	64	40	13	7,5	SN	P12C(Y)310
1000	70	40	10	7,0	SN	P12C(Y)011
1000	70	40	10	7,5	SN	P12C(Y)012
1000	70	40	13	7,0	SN	P12C(Y)311
1000	70	40	13	7,5	SN	P12C(Y)312
1100	76	40	10	7,5	SN	P12C(Y)013
1100	76	40	10	8,0	SN	P12C(Y)014
1100	76	40	13	7,5	SN	P12C(Y)313
1100	76	40	13	8,0	SN	P12C(Y)314
1200	82	40	10	8,0	SN	P12C(Y)015
1200	82	40	10	8,5	SN	P12C(Y)016
1200	82	40	13	8,0	SN	P12C(Y)315
1200	82	40	13	8,5	SN	P12C(Y)316
1300	88	40	10	8,0	SN	P12C(Y)017
1300	88	40	10	8,5	SN	P12C(Y)018
1300	88	40	13	8,0	SN	P12C(Y)317
1300	88	40	13	8,5	SN	P12C(Y)318

Please specify bore hole and pin holes
(Y) determines the bond. Please contact us to determine the specification
- (Y) = 1 for 700000/280000 - (Y) = 6 for 280000/250000
- (Y) = 2 for 740000/700000 - (Y) = 7 for 780027/780000
- (Y) = 3 for 740027/740000 - (Y) = 8 for 770037/770017
- (Y) = 4 for 740037/740017 - (Y) = 9 for 770027/770000
- (Y) = 5 for 740047/740027

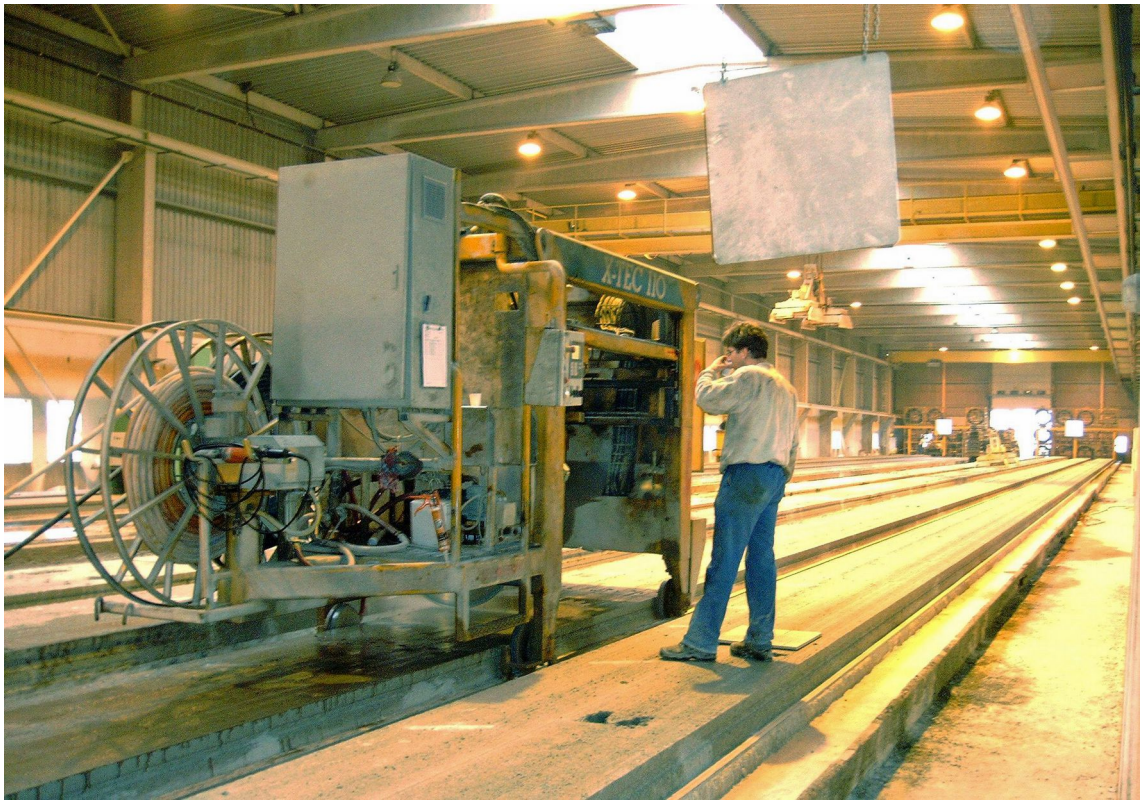
[Silent Cores]

- Surcharge table for "sandwich" and "laser cut" silent steel cores





Ø	+ Euro	+ Euro
600	+ 346,00	+ 331,00
700	+ 459,00	+ 356,00
800	+ 745,00	+ 477,00
850	+ 751,00	+ 532,00
900	+ 825,00	+ 575,00
1000	+ 825,00	+ 575,00
1100	+ 1351,00	+ 960,00
1200	+ 1351,00	+ 1016,00
1300	+ 1915,00	



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