Refractories for petrochem

Products and applications

Refrattari per petrolchimica

Prodotti e applicazioni

linco baxo group of companies

2013 1st issue

linco baxo

Refractories

www.lincobaxo.com

A GROUP OF COMPANIES

LE SOCIETA' DEL GRUPPO

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INTRODUCTION

INTRODUZIONE

OUR BRANDS

Linco Baxo group of companies has been manufacturing and supplying **Linco, Baxo, Kero and Maref** refractories since 1949 to:

- **Blast furnace**
- **Steel industry**
- **Metallurgical industry**
- **Foundries (ferrous and non ferrous)**
- **Aluminium industry**
- **Power station and vessels**
- **Incinerators**
- **Ceramic and heavy clay industry**
- **Cement and lime industry**
- **Chemical / Petrochemical industries**
- **Glass industry**

The products range has been manufactured continuously at five different locations, **Levate, Arcene, Bondeno, Zerbinate (Italy) and Tianjin (China)**.
Since customer service is Linco Baxo's top priority, our group is then **committed to develop and manufacture itemized products tailored to our customers requirements.**

Linco Baxo Group of companies ha prodotto refrattari e fornito la gamma dei prodotti **Linco, Baxo, Kero and Maref** dal 1949 nei seguenti settori:

- **Altoforno**
- **Industria dell'acciaio**
- **Industrie metallurgiche**
- **Fonderie (ferrosi e non ferrosi)**
- **Industria dell'alluminio**
- **Energia e centrali termiche**
- **Inceneritori**
- **Ceramica e laterizi**
- **Cemento e produzione di calce**
- **Industria chimica / petrolchimica**
- **Industria del vetro**

La gamma dei prodotti è stata prodotta continuamente **negli stabilimenti di Levate, Arcene, Bondeno, Zerbinate (Italia) e Tianjin (Cina)**.
Lo scopo di questo catalogo è di fornire una visione generale **del programma standard di produzion**
Poiché la priorità del ns. gruppo è la soddisfazione totale del cliente, Linco Baxo è impegnata **nello sviluppo e produzione di refrattari adatti ad esigenze specifiche dell'utilizzatore**.

Distributors, agents and customers around the world

Distributori, agenti e clienti in tutto il mondo

PRODUCT RANGE
GAMMA PRODOTTI

BRAND NAME	DESCRIPTION	MAIN ELEMENT	PAGE
LICOFEST PC-LW	Very light and light w eight ASTM castables for petrochem Calcestruzzi superisolanti ed isolanti serie ASTM per petrolchimica	Alumina	**6**
LICOFEST PC-LW-MW	Medium w eight ASTM castables for petrochem Calcestruzzi leggeri serie ASTM per petrolchimica	Alumina	**7**
LICOFEST **BAXOVIBRO** **LICO-CLAY**	Dense ASTM castables, thixotropic specialities and plastic mouldables for petrochem Calcestruzzi densi, specialità tissotropiche e masse plastiche serie ASTM per petrolchimica	Alumina	**8**
MAREF	Fireclay, alumina, mullite and high alumina bricks and shapes Mattoni e sagomati refrattari, alluminosi, mullitici e super alluminosi	Alumina	**9**
ISOM	Insulating and light w eight fire bricks Mattoni e sagomati isolanti	Alumina	**10**
BAXOPOL - LICOTON MORTARS - COLLIGAN - KEROFIB - BAXOCOAT - INJECTMIX - COATING MIX - CURING MIX	Wet and dry mortars, fibre based mixes, finishing cements, injections mixes and protective coatings Cementi plastici, malte, masse a base fibre, cementi di finitura, masse da iniezione e rivestimenti protettivi	Alumina ZrO_2	**11 - 12**
AUXILIARIES **PRODOTTI AUSILIARI**	Ceramic fibre products, soluble fibres, calcium silicate, mineral w ools, vermiculite and metallic anchors Fibre ceramiche, fibre ecologiche, silicato di calcio, lane minerali, vermiculite e ancoraggi metallici		**13 - 14** **15 - 16**

KEYS:

H	Hydraulic
CH	Chemical
K	Ceramic
A	Air setting

LEGENDA:

H	Idraulica
CH	Chimica
K	Ceramica
A	Aerea

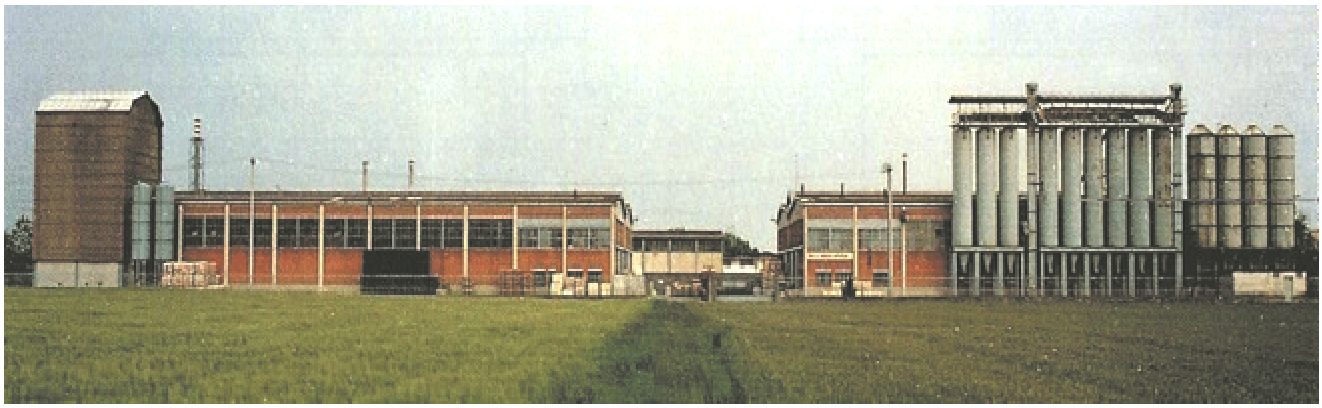
INSTALLATION SYSTEM KEY:

C	Casting, pouring
V	Vibration
G	Gunning
R	Ramming
RD	Rodding

LEGENDA INSTALLAZIONE:

C	Casting, pouring
V	Vibrazione
G	Gunitaggio
R	Pestellatura
RD	Leggera vibrazione

THE GROUP PLANTS
STABILIMENTI DEL GRUPPO



VERY LIGHT, LIGHT WEIGHT ASTM CASTABLES FOR PETROCHEM
CALCESTRUZZI SUPERISOLANTI ED ISOLANTI SERIE ASTM PER PETROLCHIMICA

These Licofest products have been formulated especially for use in the oil refining industry. Most of these products exihibit low thermal conductivity, high heat-insulating characteristics and conform to ASTM C-401 classification and other international standards (Exxon-IP 19.3.3 / Exxon-GP 19.3.3, API, UOP, etc...). All these products may be supplied for installation by gunning (code TR).

Questa serie di Licofest è stata formulata per l'utilizzo nell'industria petrolchimica. Questi calcestruzzi, caratterizzati da basse conduttività termiche ed ottimo isolamento, sono conformi alla classificazione ASTM C-401 nonchè agli standards internazionali (Exxon-IP 19.3.3 / Exxon-GP 19.3.3, API, UOP, ecc...). Tutti questi prodotti possono essere forniti nella versione per applicazione a gunitaggio (codice TR).

	Brandname	Classification temperature °C	Chemical Analysis % Al_2O_3	Fe_2O_3	SiO_2	BD kg/m³ at 815° C.	Setting	CCS N/mm² °C	TC W/Mk at 800° C.	Installation	ASTM C-401-91 Class
ALUMINA BASED	LICOFEST PC 106 I	1100	29	7	30	530	H	1 a 105° C 0,7 a 815° C	0,17	C	N
	LICOFEST PC 106 I CB	1100	31	1,9	44	560	H	1 a 105° C 0,9 a 815° C	0,17	C	N
	LICOFEST PC 105	1100	30	8	31	600	H	1,1 a 105° C 0,8 a 815° C	0,18	C	N
	LICOFEST PC 105 TR	1100	29	8	31	760	H	1,1 a 105° C 0,8 a 815° C	0,21	G	N
	LICOFEST PC 124 I	1100	30	9	39	875	H	3,5 a 105° C 3 a 815° C	0,23	C	O / P
	LICOFEST PC 124 I TR	1100	30	8,5	34	925	H	3,5 a 105° C 3 a 815° C	0,25	G	O / P
	LICOFEST PC 124 LL	1100	28	9	40	900	H	3,5 a 105° C 3 a 815° C	0,23	C	O / P
	LICOFEST PC 124 LL TR	1100	28	9	40	900	H	3,5 a 105° C 3 a 815° C	0,23	G	O / P
	LICOFEST PC 124 CH	1260	38	7	36	885	H	3 a 105° C 3 a 815° C	0,22	C	O / P
	LICOFEST PC 124 I CB	1250	45	1,9	31	910	H	2,8 a 105° C 2 a 815° C	0,23	C	O / P
	LICOFEST PC 124 WC	1100	28	9	42	910	H	3,5 a 105° C 2,5 a 815° C	0,23	C	O / P
	LICOFEST PC 123 I	1100	34	7	38	990	H	3 a 105° C 3,4 a 1100° C	0,24	C	O / P
	LICOFEST PC 123 I TR	1100	34	7	38	1035	H	3 a 105° C 3,4 a 1100° C	0,26	G	O / P
	LICOFEST PC 123 CH	1260	40	6	33	1005	H	4 a 105° C 3,6 a 1100° C	0,24	C	O / P
	LICOFEST PC 123 I CB	1260	46	1,4	33	1005	H	3,2 a 105° C 2,6 a 815° C	0,24	C	O / P
	LICOFEST LW 202 I	1100	33	7	42	1070	H	5 a 105° C 3,5 a 815° C	0,29	C	P
	LICOFEST LW 202 I TR	1100	33	7	42	1100	H	5 a 105° C 3,5 a 815° C	0,29	G	P
	LICOFEST L 06 CX	1180	43	1,5	39	670	H	1,2 a 105° C 0,9 a 815° C	0,18	C	N
	LICOFEST L 08 C	1290	53	0,5	38	880	H	3,5 a 105° C 2,1 a 815° C	0,22	C	P / Q
	LICOFEST L 08 CX	1290	54	0,9	34	880	H	3,5 a 105° C 2,1 a 815° C	0,22	C	P / Q
	LICOFEST LW 27 C	1540	65	0,6	20	880	H	3,4 a 105° C 3 a 815° C	0,30	C	P / Q

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MEDIUM WEIGHT ASTM CASTABLES FOR PETROCHEM
CALCESTRUZZI LEGGERI SERIE ASTM PER PETROLCHIMICA

These Licofest products have been formulated specially for use in the oil refining industry. Most of them exhibit good strength, volumetric stability and have high refractoriness. These products conform to ASTM C-401 classification and other international standards (Exxon-IP 19.3.3 / Exxon-GP 19.3.3, API, UOP, etc...).These products may be supplied for gunning (code TR).

Questa serie di Licofest è stata formulata per l'utilizzo nell'industria petrolchimica. Questi calcestruzzi, caratterizzati da basse conduttività termiche ed ottimo isolamento, sono conformi alla classificazione ASTM C-401 nonchè agli standards internazionali (Exxon-IP 19.3.3 / Exxon-GP 19.3.3, API, UOP, ecc...). Tutti questi prodotti possono essere forniti nella versione per applicazione a gunitaggio (codice TR).

	Brandname	Classification temperature °C	Chemical Analysis % Al_2O_3	Fe_2O_3	SiO_2	BD kg/m³ at 815° C.	Setting	CCS N/mm² °C	TC W/Mk at 800° C.	Installation	ASTM C-401-91 Class
ALUMINA BASED	LICOFEST LW 202 M	1230	36	6	42	1110	H	4,3 a 105° C 3,8 a 815° C	0,28	C	P / Q
	LICOFEST LW 202 M CB	1350	45	1,5	39	1110	H	4,3 a 105° C 3,8 a 815° C	0,28	C	P / Q
	LICOFEST LW 203 I	1150	34	8	37	1110	H	8 a 105° C 5,5 a 815° C	0,35	C	Q
	LICOFEST LW 202 HT	1260	32	6	41	1200	H	4,9 a 105° C 3,8 a 815° C	0,35	C	Q
	LICOFEST LW 203 CH	1320	40	6	36	1215	H	11 a 105° C 6 a 815° C	0,35	C	Q
	LICOFEST LW 203 CB	1400	49	1	37	1220	H	5 a 105° C 4 a 815° C	0,36	C	Q / R
	LICOFEST LW 203 C	1420	57	0,8	30	1210	H	7 a 105° C 5 a 815° C	0,35	C	Q / R
	LICOFEST PC 14 I	1150	33	6	43	1360	H	11 a 105° C 8 a 815° C	0,37	C	R
	LICOFEST PC 14 HT	1370	40	6	38	1410	H	15 a 105° C 11 a 815° C	0,37	C	R
	LICOFEST PC 14 HT TR	1370	40	5,5	43	1460	H	15 a 105° C 11 a 815° C	0,37	G	R
	LICOFEST PC 14 HT S	1470	52	1,5	40	1410	H	15 a 105° C 11 a 815° C	0,37	C	R
	LICOFEST MW 27	1540	60	1	31,5	1500	H	20 a 105° C 12 a 815° C	0,46	C	S / T
	LICOFEST MW 28 X	1540	63	0,4	25	1380	H	10 a 105° C 8 a 815° C	0,47	C	Q / R / S
	LICOFEST MW 28 XD	1350	50	2	33	1380	H	8 a 105° C 6 a 815° C	0,47	C	Q / R / S
	LICOFEST LW 28	1550	67	0,6	25	1390	H	11 a 105° C 8 a 815° C	0,45	C	Q / R / S
	LICOFEST MW 29 X	1620	81	0,5	12	1400	H	15 a 105° C 8 a 815° C	0,46	C	T
	LICOFEST LW 30	1700	92	0,2	0,5	1200	H	10 a 105° C 8 a 815° C	0,41	C	Q / R / S / U / V
	LICOFEST MW 95 C	1760	95	0,1	0,2	1650	H	16 a 105° C 10 a 815° C	0,57	C	U / V

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REFRACTORY DENSE ASTM CASTABLES FOR PETROCHEM
CALCESTRUZZI DENSI SERIE ASTM PER L'INDUSTRIA PETROLCHIMICA

These Licofest products have been formulated for use in the oil refining industry. Most of them exhibit good strength, volumetric stability and have high refractoriness. These products conform to ASTM C-401 classification and other international standards (Exxon-IP 19.3.3 / Exxon-GP 19.3.3, API, UOP, etc...).These products may be supplied for gunning (code TR).

Questa serie di Licofest è stata formulata per l'utilizzo nell'industria petrolchimica. Questi calcestruzzi sono conformi alla classificazione ASTM C-401 nonchè agli standards internazionali (Exxon-IP 19.3.3 / Exxon-GP 19.3.3, API, UOP, ecc...). Tutti questi prodotti possono essere forniti nella versione per applicazione a gunitaggio (codice TR).

	Brandname	Classification temperature °C	Chemical Analysis % Al_2O_3	Fe_2O_3	SiO_2	BD kg/m³ at 815° C.	Setting	CCS N/mm² °C	TC W/Mk at 800° C.	Installation	ASTM C-401-91 Class
ALUMINA BASED	LICOFEST A	1100	15	3	70	1950	H	25 a 105° C 16 a 815° C	0,70	C - G	A
	LICOFEST 17	1260	38	4,2	47	1850	H	28 a 105° C 20 a 1100° C	0,60	C - V	B
	LICOFEST 18 HTS	1370	42	2,9	45	1990	H	27 a 105° C 22 a 1100° C	0,63	C - V	C
	LICOFEST 30	1500	53	0,9	42	2050	H	40 a 105° C 30 a 1100° C	0,74	C	D
	LICOFEST 3500 HT	1650	56	0,9	37	2090	H	30 a 105° C 30 a 1200° C	0,85	C - V	E
	LICOFEST 3550 HT	1650	60	0,9	33	2160	H	40 a 105° C 35 a 1100° C	1,04	C - V	E
	LICOFEST H 85	1710	85	0,8	5	2650	H	45 a 105° C 40 a 1200° C	1,60	C - V	F
	LICOFEST H 195 C	1800	95	0,1	0,1	2590	H	63 a 105° C 60 a 1200° C	1,42	C - V	G
	LICOFEST H 197 C	1800	97	0,1	0,1	2780	H	50 a 105° C 60 a 1100° C	1,84	C - V	G
LCC	LICOFEST PL 320	1500	52	0,8	45	2150	H - CH	70 a 105° C 65 a 1100° C	1,00	V - RD	D
	LICOFEST PL 400	1650	75	0,1	23	2550	H - CH	90 a 105° C 100 a 1300° C	1,47	V - RD	E
	LICOFEST ALTA PL	1760	95,5	0,06	0,5	2950	H - CH	120 a 105° C 120 a 1300° C	2,64	V - RD	G
	BAXOVIBRO VT 332	1480	48	1,1	45	2290	H - CH	58 a 105° C 62 a 1300° C	1,00	V	D
	BAXOVIBRO VT 336	1600	58	1	36	2400	H - CH	60 a 105° C 90 a 1300° C	1,00	V	E
	BAXOVIBRO LB	1650	65	0,5	31	2490	H - CH	45 a 105° C 70 a 1100° C	1,19	V	E
	BAXOVIBRO VT 400	1700	72	0,1	25	2560	H - CH	70 a 105° C 80 a 1500° C	1,47	V	F
	BAXOVIBRO VT 95 TAB	1820	97	0,3	1	2950	H - CH	80 a 105° C 90 a 1300° C	1,47	V	G
PLASTIC MOULDABLES	LICO-CLAY X 36	1600	52	1	44	2350	CH - K	40 a 1100° C 55 a 1300° C	1,06	R	-
	LICO-CLAY X 39	1720	81	1,3	14	2650	CH - K	60 a 1100° C 60 a 1300° C	1,40	R	-
	LICO-CLAY X 41	1750	86	0,9	10	2800	CH - K	45 a 1300° C 50 a 1500° C	1,54	R	-
	LICO-CLAY X 415	1800	89	0,4	9	2900	CH - K	75 a 1300° C 75 a 1500° C	1,68	R	-

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FIRECLAY, ALUMINA, MULLITE AND HIGH ALUMINA BRICKS AND SHAPES
MATTONI E SAGOMATI REFRATTARI, ALLUMINOSI, MULLITICI E SUPER ALLUMINOSI

A complete range of alumina bricks and shaped refractories from 20% to 98% Al_2O_3. Large sizes and special pieces may be manufactured to customers requirements.

Una serie completa di mattoni e sagomati refrattari dal 20% al 98% di Al_2O_3. Le possibilità di grandi formati e pezzi speciali completa la gamma.

	Brandname	Chemical Analysis % Al_2O_3	Chemical Analysis % Fe_2O_3	BD tonn./m^3	Apparent porosity %	Refractoriness C.S.	Refractoriness ° C.	TC W/mK °C 105	TC W/mK °C 650	TC W/mK °C 1100	CCS N/mm^2	Refract. under load TR - ° C
SILICO ALUMINA	MAREF RA	32	1,5	2,15	≤16	29	1650	0,95	1,10	1,30	52	1250
	MAREF 40 Y	40	1,8	2,2	≤20	35	1710	1,15	1,24	1,32	35	1350
	MAREF 42 C	41	1,6	2,15	≤17	33	1730	1,05	1,20	1,35	45	1400
	MAREF 45 Y	43	1,4	2,2	≤16	34	1745	1,25	1,33	1,46	40	1460
	MAREF 44 H	45	1,4	2,25	≤16	35	1770	1,25	1,33	1,46	56	1470
	MAREF 62 C	62	1,5	2,35	≤18	37	1830	1,42	1,53	1,62	50	1480
	MAREF 65 Y	62	1,5	2,4	≤18	37	1830	1,42	1,53	1,62	50	1450
MULLITE	MAREF FS AD	61	1,2	2,5	16	37	1830	1,61	1,73	1,83	70	1540
	MAREF 58 SM	58	0,6	2,45	≤17	34	1750	1,61	1,68	1,72	60	1550
	MAREF 62 SM	62	1	2,5	≤17	37	1820	1,60	1,64	1,77	60	1590
	MAREF 65 SM	66	0,9	2,55	16	38	1850	1,60	1,64	1,79	65	1600
	MAREF 70 SM	70	0,7	2,55	≤16	38	1850	1,63	1,67	1,73	65	1600
HIGH ALUMINA	MAREF 80 C	80	2	2,65	≤18	35	1780	1,78	1,88	2,04	>60	1500
	MAREF 9 CB	85	1,2	2,95	≤17	39	1880	2,15	2,40	2,40	80	1540
	MAREF 90 HPCR	84	3 (Cr_2O_3)	3	≤18	38	1860	2,10	2,27	2,41	>80	1560
	MAREF 95 HKC	91	0,6	2,95	≤18	42	1980	2,62	2,73	2,77	70	1720
	MAREF 95 AT	92	0,2	2,9	≤16	42	2000	2,70	2,80	2,85	85	1750
	MAREF 99	98	0,2	3,05	17	42	2000	3,94	3,61	3,34	70	1750

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INSULATING AND LIGHT WEIGHT FIRE BRICKS
MATTONI E SAGOMATI ISOLANTI

A comprehensive range of insulating bricks with classification temperature from 900°C to 1790°C. Large sizes and special shapes may be manufactured to customers requirements.

Una vasta gamma di mattoni isolanti in grado di soddisfare le più svariate esigenze con temperatura di classificazione da 900°C a 1790°C. La possibilità di grandi formati e pezzi speciali completa la gamma.

Brandname	ISO 2245	ASTM C155	Classification temperature °C	Chemical Analysis %		BD kg/m³	CCS N/mm²	TC W/mK °C				
				Al_2O_3	Fe_2O_3			400	600	800	1000	1200
ISOM 0.5	-	-	900	15	4,1	500	1	0,18	0,19	0,22	0,24	-
ISOM 23	125.06 L	23	1320	40	1	580	1,5	0,17	0,19	0,21	0,23	0,25
ISOM 23 A	125.06 L	23	1260	38	1	560	1,2	0,15	0,17	0,19	0,22	0,24
ISOM 23 H	125.07	23	1320	55	1,3	750	2	0,25	0,28	0,30	0,33	0,33
ISOM 26	140.08 L	26	1430	51	0,9	800	2,2	0,25	0,29	0,30	0,33	0,39
ISOM 26 A	-	26	1430	50	1	800	2	0,25	0,29	0,31	0,33	0,34
ISOM 26 H	140.08 L	26	1430	51	0,9	850	2,5	0,25	0,29	0,30	0,33	0,39
ISOM 28	150.09 L	28	1540	68	0,7	900	3	0,27	0,30	0,33	0,35	0,39
ISOM 28 H	150.1.1	28	1560	56	0,9	1100	7	0,38	0,39	0,40	0,41	0,42
ISOM 30	160.1.0 L	30	1650	78	0,6	1050	4,5	0,37	0,39	0,40	0,42	0,44
ISOM 32	170.1.2 L	32	1730	80	1	1300	4	0,47	0,52	0,53	0,55	0,60
ISOM 33	-	33	1790	85	0,6	1500	7,5	0,51	0,54	0,55	0,58	0,60
ISOM 800	-	-	1350	44	2	800	2,5	0,24	0,27	0,29	0,35	-
ISOM 1000	140.1	-	1400	41	1,8	1000	5	0,30	0,33	0,36	0,39	-
ISOM 1200	-	-	1400	60	2	1200	6	0,49	0,51	0,53	0,56	0,64
ISOM 1250	-	-	1400	60	2	1250	8	0,51	0,54	0,55	0,58	0,68
ISOM 1300	-	-	1400	55	2,1	1300	8,5	0,53	0,55	0,57	0,60	0,71

Standard shapes *Formati Standard*	Dimensions *Dimensioni*
Straights, arches, wedges *Rettangoli, coltelli, cunei*	220x110x60 230x115x65 alt. 76 250x125x65 alt. 76
Slabs *Tavelloni*	on request *a richiesta*

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WET AND DRY MORTARS
CEMENTI E MALTE SECCHE

This group of products covers refractory air and heat setting mortars. Baxopol and Colligan are supplied wet and ready to use. Licoton mortars CH are supplied as dry mortars.

Questo gruppo comprende cementi plastici e malte refrattarie con presa all'aria, termica e chimica. Baxopol e Colligan sono cementi plastici pronti all'uso, mentre Licoton mortars CH sono malte secche.

	Brandname	Classification temperature °C	Chemical Analysis % Al_2O_3	Fe_2O_3	SiO_2	BD kg/m³ at 815° C.	Setting	Status at delivery
ALUMINA BASED	BAXOPOL N	1350	4	0,5	89	1900	A	Ready to use *pronto all'uso*
	BAXOPOL C	1500	40	1,5	56	1950	A	Ready to use *pronto all'uso*
	BLAKPOL	1650	43	1,2	52	1900	A	Ready to use *pronto all'uso*
	BAXOPOL B	1650	85	0,7	9	2000	A	Ready to use *pronto all'uso*
	BAXOPOL HT	1750	92	0,2	3	2200	CH	Ready to use *pronto all'uso*
	WHITEBOND	1760	55	0,8	40	2000	A	Ready to use *pronto all'uso*
	COLLIGAN ALTO 85 CR	1770	82	0,2	10 (Cr_2O_3)	2200	CH	Ready to use *pronto all'uso*
	LICOTON MORTAR 40 CH	1500	38	2	58	1900	CH - K	dry mortar *malta secca*
	LICOTON MORTAR 55 CH	1550	52	1,2	46	1950	CH - K	dry mortar *malta secca*
	LICOTON MORTAR 85 CH	1750	85	0,8	9	2100	CH - K	dry mortar *malta secca*
ZrO_2 BASED	COLLIGAN ZR 30	1600	30 (ZrO_2)	0,5	30	2500	CH	Ready to use *pronto all'uso*
	COLLIGAN ZR 60	1700	60 (ZrO_2)	0,5	27	2600	CH	Ready to use *pronto all'uso*

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FIBRE BASED MIXES / FINISHING CEMENTS
MASSE SUPERISOLANTI A BASE DI FIBRE / CEMENTI DI FINITURA

These finishing cements and mixes are based on fibres and mineral wools. They may be used for many applications such as insulation of complex and rough surfaces and insulation filling.

Cementi di finitura e le miscele fibrose a base di fibre solubili e minerali per l'isolamento di superfici irregolari. Le applicazioni più comuni sono l'isolamento di forme complesse e/o riempimento isolante.

	Brandname	Classification temperature °C	Chemical Analysis % Al_2O_3	Fe_2O_3	SiO_2	BD kg/m³ at 815° C.	Setting	CCS N/mm² °C	Installation
ALUMINA BASED	KERO V 508	980	16	6	54	250	A	0,4 a 105° C 0,4 a 815° C	0,17
	KEROFIB TR BL	980	20	3	46	650	H	1,2 a 105° C 1,2 a 815° C	0,16
	KEROMIN 460 C	980	22	5,5	50	460	H	1 a 105° C 0,8 a 815° C	0,21
	KEROFIB AL ECO	1150	32	3,6	39	810	H	0,85 a 105° C 1,05 a1100° C	0,22
	KEROFIB HT ECO	1300	44	0,7	37	810	H	0,85 a 105° C 1,05 a1100° C	0,22

PROTECTIVE COATINGS / INJECTION MIXES
RIVESTIMENTI PROTETTIVI / MASSE DA INIEZIONE

BAXOCOAT and **KWG 311** are products to prevent corrosion of steel casing. They are also used to install insulating blocks.

INJECTMIX are phos-bonded mixes for injection applications.

BAXOCOAT e **KWG 311** sono prodotti per protezione dalla corrosione delle carpenterie. Sono usati anche per cementare materiali isolanti.

INJECTMIX sono masse con legante fosfatico per applicazione ad iniezione.

	Brandname	Classification temperature °C	Chemical Analysis % Al_2O_3	Fe_2O_3	SiO_2	BD kg/m³ at 815° C.	Setting	Installation
ALUMINA BASED	BAXOCOAT AS 180	800	72	-	22	-	CH	R - PC - VN
	BAXOCOAT AS 100	1500	47	0,9	50	-	CH-K	R - PC - VN
	INJECTMIX LBF	1650	84	0,1	2,5 (PO_2O_5)	2800	CH	IN
	INJECTMIX LBF FINE	1650	84	0,1	2,5 (PO_2O_5)	2400	CH	IN
AUXILIARIES	COATING MIX K WG 311	1000	-	-	-	2000	-	VN
	CURING MIX 106	CURING MIX 106 PROVIDES A HIGHLY AND EFFICIENT MEANS OF RETAINING THE MOISTURE IN FRESH CONCRETE AND DELAY CARBONATATION. 106 FORNISCE UN' ELEVATA ED EFFICIENTE PROTEZIONE ALL'UMIDITA' DEL CALCESTRUZZO FRESCO RITARDANDO LA CARBONATAZIONE.						CURING MIX

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CERAMIC FIBRES
FIBRE CERAMICHE

A large range of ceramic and mullite fibres with temperatures ranging from 1260°C to 1600°C. All products are available in bulk wool, blankets, modules, ceramic fibre boards,felts, papers and textiles.

Una vasta gamma di fibre ceramiche e mullitiche con temperature di classificazione da 1260°C a 1600°C, in grado di soddisfare le più svariate esigenze. Disponibili in fiocco, materassino, moduli, lastre, feltri, carte e prodotti tessili.

Brandname	Description	Classification Temperature °C	Density kg/m³	TC W/mK °C 200	400	600	800	1000	Shrinkage after 24h at °C	%	Thickness mm.
LM 1260	Blanket *Materassino*	1260	96	0,06	0,11	0,16	0,23	0,32	1100	2,2	6 -13 - 25 - 38 - 50
			128	0,06	0,10	0,15	0,20	0,27	1100	2,2	
			160	0,06	0,09	0,13	0,18	0,25	1100	2,2	
LM 1430	Blanket *Materassino*	1430	96	0,06	0,11	0,16	0,23	0,32	1350	2,2	6 -13 - 25 - 38 - 50
			128	0,06	0,10	0,15	0,20	0,27	1350	2,2	
			160	0,06	0,09	0,13	0,18	0,25	1350	2,2	
LM 1650	Blanket *Materassino*	1650	100	-	0,09	0,13	0,19	0,28	1600	2	13 - 25
	Blanket *Materassino*		130	-	0,07	0,13	0,19	0,28	1600	2	
LF 1260	Bulk wool *Fiocco*	1260	40-190 (app.dens)	-	-	-	-	-	-	-	In bags/box *in sacchi/scatole*
LF 1430	Bulk wool *Fiocco*	1430	40-190 (app.dens)	-	-	-	-	-	-	-	
LF 1600	Bulk wool *Fiocco*	1600	40-190 (app.dens)	-	-	-	-	-	-	-	
L MOD 12	Modules *Moduli*	1260	160	-	0,11	0,18	0,25	0,31	1260	3	300x300x100→300 other sizes on request
			190	-	0,10	0,16	0,23	0,31	1260	<1	
L MOD 14	Modules *Moduli*	1430	160	-	0,11	0,18	0,25	0,34	1450	<1,5	300x300x100→300 other sizes on request
			190	-	0,10	0,13	0,20	0,28	1600	<1	
L MOD 16	Modules *Moduli*	1600	130	-	0,10	0,15	0,20	0,28	1600	1	300x300x100→300 other sizes on request
LV 12	Ceramic fibre board *Lastre fibra ceramica*	1260	300	-	0,08	0,11	0,15	0,20	1260	3	10 - 15 - 25 - 50
LV 14	Ceramic fibre board *Lastre fibra ceramica*	1430	300	-	0,08	0,11	0,15	0,20	1430	3,7	25 - 50
LV 16	Ceramic fibre board *Lastre fibra ceramica*	1600	300	-	0,17	0,18	0,20	0,26	1600	3	25 - 50
LP 1260	Ceramic fibre paper *Carta di fibra ceramica*	1260	210	0,06	0,09	0,13	0,20	-	1260	3,5	1 - 2 - 3 - 5
LP 1400	Ceramic fibre paper *Carta di fibra ceramica*	1400	210	0,06	0,09	0,13	0,20	0,28	1400	3,3	2 - 3 - 5
LP 1600	Ceramic fibre paper *Carta di fibra ceramica*	1600	210	-	-	0,16	0,20	0,24	1600	3,5	2 - 3 - 5
LM ROPE	C.F. Ropes-Braid *Cordone fibra ceramica*	650	Glass fibre reinforced Rinforzato fibra di vetro								5→100 mm.
		1050	Inconel reinforced *Rinforzato Inconel*								5→100 mm.

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SOLUBLE FIBRES
FIBRE ECOLOGICHE

A range of soluble fibres with temperatures from 1000 ° C to 1260 ° C, to satisfy various needs. All products are available in bulk wool, blankets, modules, ceramic fibre boards, papers and textiles.

Una gamma di fibre solubili ecologiche con temperature di classificazione da 1000°C a 1260°C, in grado di soddisfare molteplici esigenze. Disponibili in fiocco, materassino, moduli, lastre, carte e prodotti tessili.

Brandname	Description	Classification Temperature °C	Density kg/m³	TC W/mK °C 200	400	600	800	1000	Shrinkage after 24h at °C	%	Thickness mm.
LM ECO 1200	Blanket *Materassino*	1260	64	0,07	0,65	0,24	0,39	0,52	1200	<1,0	13 - 25 - 38 - 50
			96	0,07	0,13	0,20	0,32	0,48	1200	<1,0	
			128	0,06	0,11	0,18	0,27	0,39	1200	<1,0	
			160	0,05	0,09	0,15	0,24	0,28	1200	<1,0	
LF ECO 1200	Bulk wool *Fiocco*	1260	40-190 (app.dens)	-	-	-	-	-	-	-	In bags/box *in sacchi/scatole*
LMOD ECO 12	Modules *Moduli*	1260	160	-	0,11	0,18	0,25	0,31	1260	3	300x300x100→300 other sizes on request
LP ECO	Soluble fibre paper *Carta fibra solubile*	1100	210	-	0,09	0,14	0,23	0,28	1200	<2,0	1 - 2 - 3 - 5
LV ECO 10	Soluble fibre boards *Lastre fibra solub.*	1000	320	-	0,08	0,11	0,14	-	1000	1,5	10 - 15 - 25 - 50
LV ECO 12	Soluble fibre boards *Lastre fibra solub.*	1260	350	-	0,08	0,10	0,15	-	1200	2	10 - 15 - 25 - 50
LM ECO ROPE	Soluble Ropes-Braid *Cordone-treccia in fibra solubile*	650	Glass fibre reinforced								5→100 mm.
		1050	Inconel reinforced								5→100 mm.

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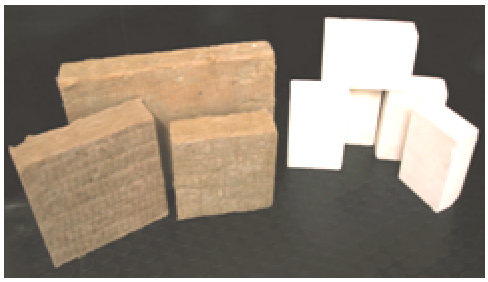
CALCIUM SILICATE AND MINERAL WOOLS
SILICATO DI CALCIO E LANE MINERALI



A large range of materials suitable for back-up insulation and various applications.

Una vasta gamma di materiali adatti per isolamenti posteriori e applicazioni varie.

Brandname	Description	Classification Temperature °C	Density kg/m³	Stand. shapes mm.	TC W/mK °C 200	400	600	800	Shrinkage after 24h at °C	%
SILTHERM 1000	Calcium silicate slabs *Pannelli silicato di calcio*	1000	230	1000x500 x25→100	0,07	0,10	0,14	0,17	1000	<2
SILTHERM 1100	Calcium silicate slabs *Pannelli silicato di calcio*	1100	275	1000x500 x25→100	0,07	0,10	0,14	0,18	1050	<2
BASALAN	Mineral wool slabs *Lastre rigide di lana minerale*	800	100 120 140	1000x600 x25→100	0,056	0,12	0,20	-	700	1,4
PARGAS	Mineral wool slabs *Lastre rigide di lana minerale*	900	180	1000x600 x25→100	0,073	0,11	0,19	-	700	1,2
MICROPOR	Microporous slabs *Lastre termoisolanti microporose*	950	300	1000x600 x25→100	0,021	0,024	0,03	0,38	700	0,6
GREEN FOREST vermiculite	Expansed Vermiculite *Vermiculite espansa*	Loose / Sfusa 800	80	Grades Granulometria 0-2 / 0,7-3 3-10	Loose / Sfusa 0,056		(Ta 25°C)		-	-
		with CAC/con CAC 900	120		with CAC / con CAC 0,083					

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INSULATING AND REFRACTORY MASTICS / ADHESIVES
MASTICI ISOLANTI E REFRATTARI / ADESIVI

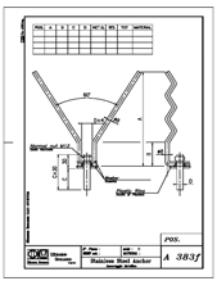
LB-FILL is a special fibre mastic for injecting, pumping and/or hand ramming. The setting takes place steadily as the firing proceeds producing an insulating structure with adequate strength, good thermal shock resistance and low thermal conductivity. LB-STICK is a high alumina refractory mixture, reinforced by alumina fibres dispersed in the mix. LB MUL-COAT MIX is a dry coating material which is used to provide wear and corrosion protection for the surface of ceramic fibre linings.

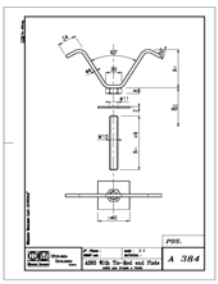
LB FILL è un mastice speciale a base di fibra applicabile per iniezione, pompaggio e/o pestellatura manuale. Il prodotto indurisce con il calore formando una struttura isolante con sufficiente resistenza meccanica, buona resistenza agli sbalzi termici e bassi valori di conducibilità termica. Il mastice LB-STICK è un impasto refrattario ad elevato tenore di allumina, rinforzato da fibre di allumina disperse nella miscela. Il mastice LB MUL-COAT MIX è un intonaco secco usato come protezione antiusura per la superficie di rivestimenti eseguiti in fibre ceramiche.

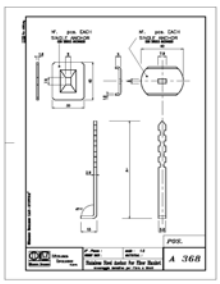
Brandname	Classification temperature °C	Al_2O_3 %	Apparent density Kg/m^3	Density after firing Kg/m^3	Linear shrinkage	Colour
LB-FILL 126	1200	55	1150	300-400	5%	white - bianco
LB-FILL 140	1400	60	1150	300-400	5%	white - bianco
LB-FILL 160 ECO	1600	95	1100	300-400	n.a.	white - bianco
LB-STICK	1500	86	1600	450-550	n.a.	white - bianco
LB MUL COAT MIX	1500	85	1450	1400	n.a.	light brown - grigio chiaro
LB DUR COAT	1260	-	1200	-	n.a.	-

STAINLESS STEEL ANCHORS & STUDS
ANCORAGGI METALLICI E GANCI

Brandname	Quality
A 313	AISI 304 AISI 310
A 324	
A 326 A	
A 358	
A 368	
A 370	
A 383	
A 383 A - B - C - D - E - F	
A 384	
A 384 A - B - C - D - E - F - G - H	
A 385 A - B - C - D	
A 386 A	
A 386 B1 - B2 - B3 - B5	
A 421	







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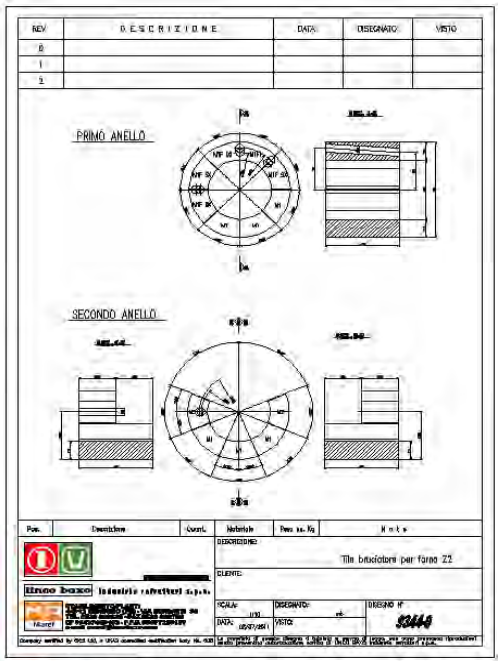
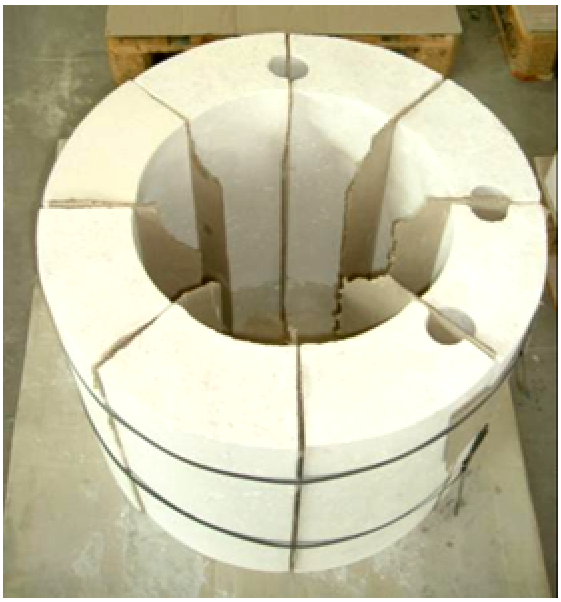
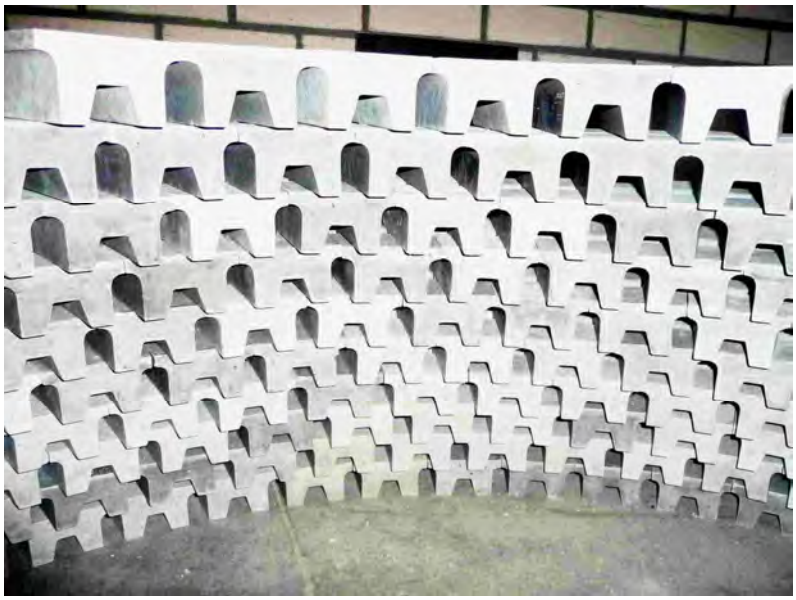
PRECAST SHAPES
BLOCCHI PREFABBRICATI

A range of products to satisfy itemized customers requirements. Shapes based on alumina, zircon and SIC are manufactured to customer drawings with alumina mixes from 30% to 98% of Al_2O_3, zirconium and silicon carbide. Current production covers burners, ferrules and other shapes.

Una gamma di prodotti per soddisfare le esigenze speciali della clientela. Sagomati di varia tipologia e di qualsiasi forma realizzati su disegno cliente con miscele alluminose dal 30% al 98% di Al_2O_3, zirconio e carburo di silicio. Tra le normali produzioni evidenziamo coni bruciatore e ferrule di varie forme e composizione.







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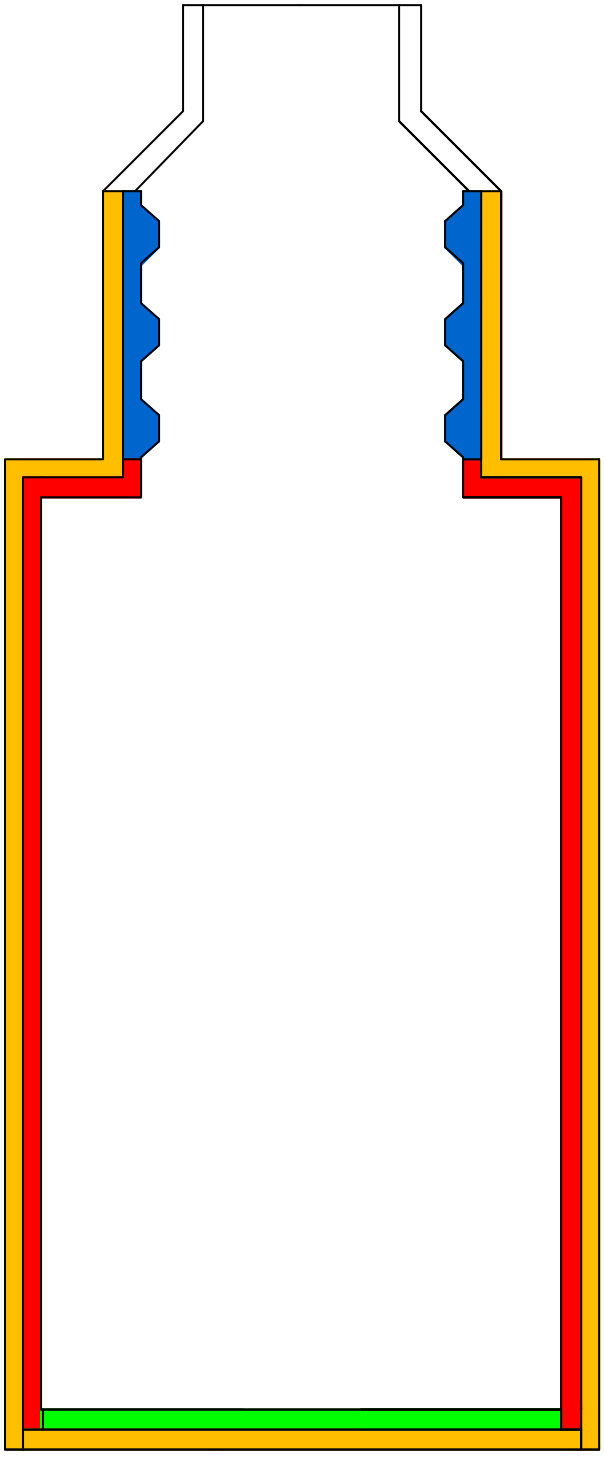
PROCESS / FIRED HEATERS

Fired heaters require high quality insulating refractory products to secure a long service life-time with the least possible maintenance shutdown. Worldwide renowned insulating materials such as:

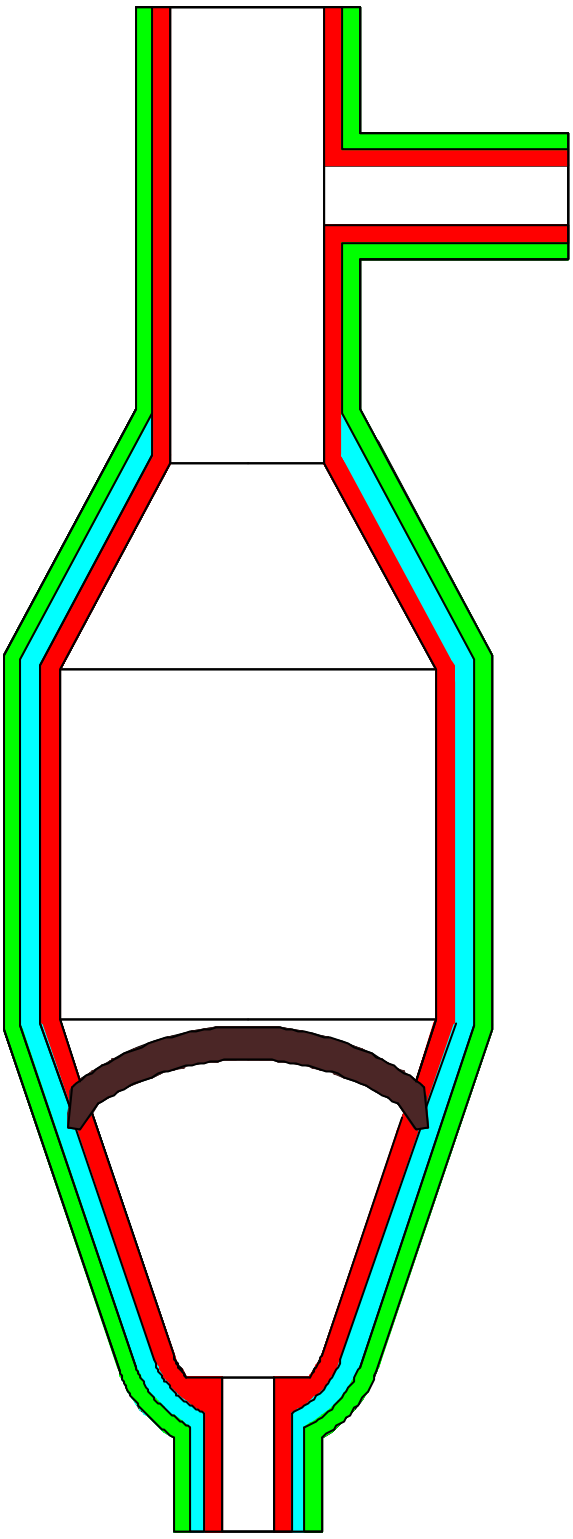
- Insulating castable range LICOFEST and insulating firebricks ISOM for hot face lining in the combustion area.
- Insulating firebricks ISOM and insulating boards SILTHERM as back up lining.
- Ceramic fiber blanket LM / LM ECO as well as ceramic fibre modules L MOD / L MOD ECO in the convention area.



QUALITY	Description
LICOFEST PC 124 I	light weight insulating castable
LICOFEST PC 124 CH	light weight insulating castable
LICOFEST LW 203 I	medium weight castable
LICOFEST PC 123 I	light weight insulating castable
LICOFEST PC 124 I	light weight insulating castable
LICOFEST PC 124 CH	light weight insulating castable
LICOFEST PC 124 I CB	light weight insulating castable
LICOFEST PC 14 I	medium weight insulating castable
LICOFEST LW 203 I	medium weight insulating castable
MAREF 45 Y	refractory brick
MAREF 42 C	refractory brick
LICOFEST PC 106 I	light weight insulating castable
LICOFEST PC 105	light weight insulating castable

SECONDARY AMMONIA REFORMERS

The hydrogen rich atmosphere of the secondary reformer requires high purity refractory products in the hot face as well as insulating layers. All listed refractories are approved by the major engineering companies. High alumina bricks MAREF 95 AT / MAREF 99 are devoted to the hot face from the burner down to the diffusor cone or the catalyst arch support. Monolithics LICOFEST H 195 C / LICOFEST H 197 C are suitable in the wall of middle sized vessels. Alumina bricks ISOM 32 / 33 are preferred as first insulating layer and LICOFEST MW 27 or LICOFEST LW 203 C as back up.

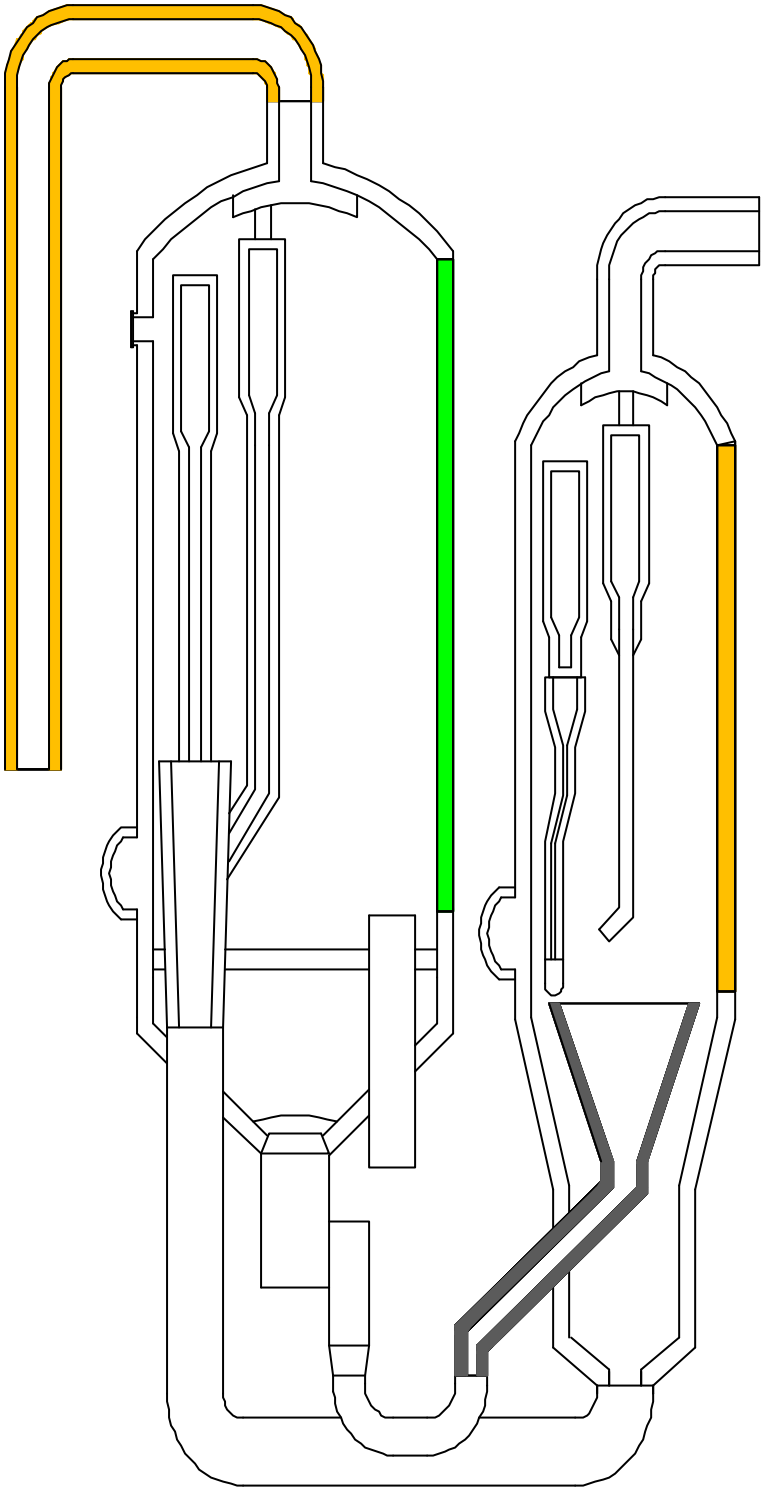


QUALITY	Description
MAREF 95 HKC	high alumina brick
MAREF 95 AT	high alumina brick
LICOFEST H 195 C	dense refractory castable
LICOFEST H 197 C	dense refractory castable
LICOFEST LW 202 MCB	medium weight castable
LICOFEST LW 203 CB	medium weight castable
MAREF 95 AT	high alumina brick
MAREF 99	high alumina brick
ISOM 32	insulating and light weight brick
ISOM 33	insulating and light weight brick

FLUID CATALYTIC CRACKING UNIT

The toughest problem to solve in a FCCU is wear on the refractory lining. For the lining of cyclones and pipes inside reactors and regenerators high abrasion resistant castables such as LICOFEST PL, BAXOVIBRO VT, KEROFLOW are required, usually installed on "hex mesh".

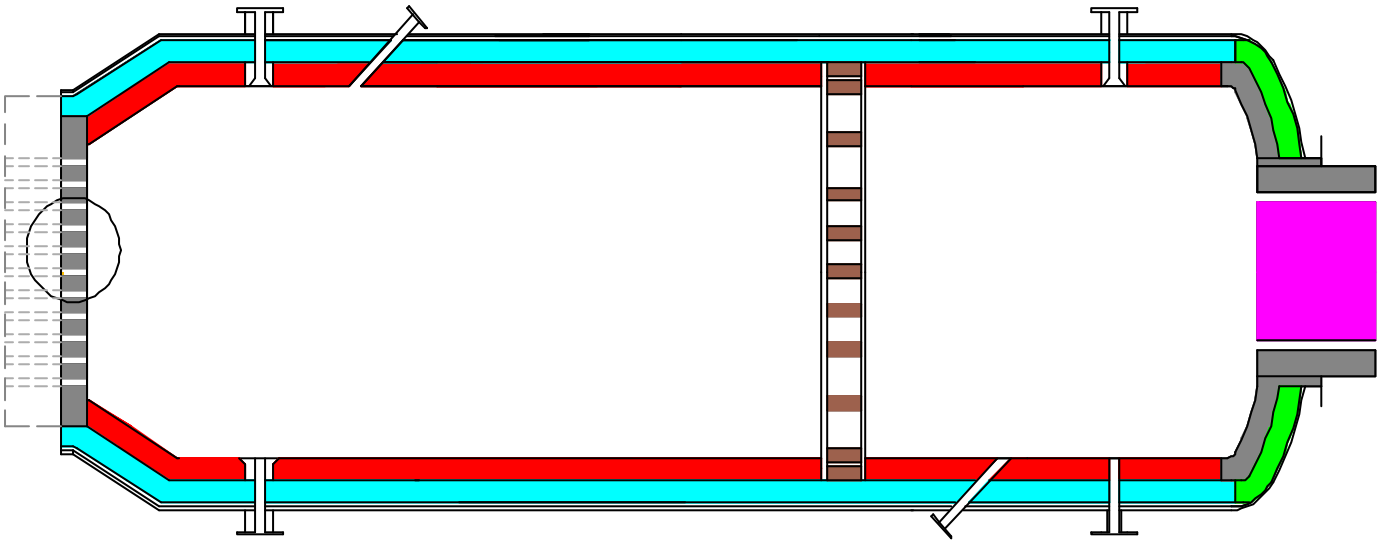
A low cement content castable BAXOVIBRO VT 336 with SS needles has been developed for the riserpipe and standpipe lining. Medium weight insulating castable LICOFEST LW 203 C / LICOFEST LW 202 MCB are used for regenerator shell protection. The regenerator nozzles are reinforced with inserts in LICOFEST LW 203 C / LICOFEST LW 202 MCB.

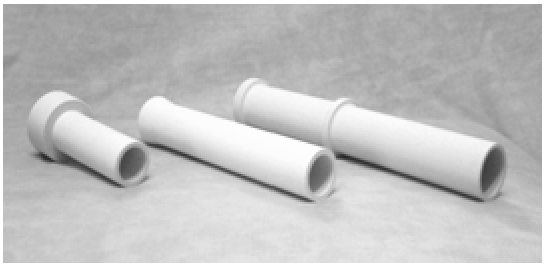


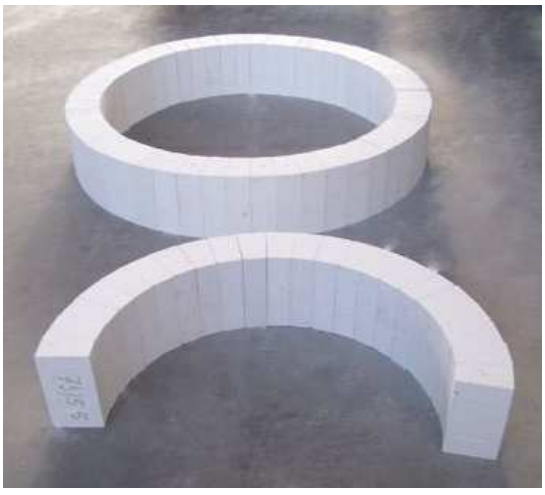
QUALITY	Description
LICOFEST LW 203 C	medium weight castable
LICOFEST LW 202 M CB	medium weight castable
LICOFEST PL	abrasion resistant
BAXOVIBRO VT	castables based on
KEROFLOW	fused minerals
BAXOVIBRO VT 336	low cement castable
SS NEEDLES	SS needles reinforced

SULFUR RECOVERY FURNACE

Sulfur furnace is the most important part of the sulfur recovery unit where high temperature and gas corrosion require very pure refractory materials with low iron content. Bricks, plastics and monolithics based on tabular alumina and fused raw materials are used in the hot face. MAREF 95 AT / MAREF 99 / LICOCLAY X 41 / LICOCLAY X 415 and LICOFEST H195 C / LICOFEST H 197 C, are usually selected for the first layer. Low iron content insulating firebricks ISOM 30/28/26/23 aim at reaching the correct shell temperature.







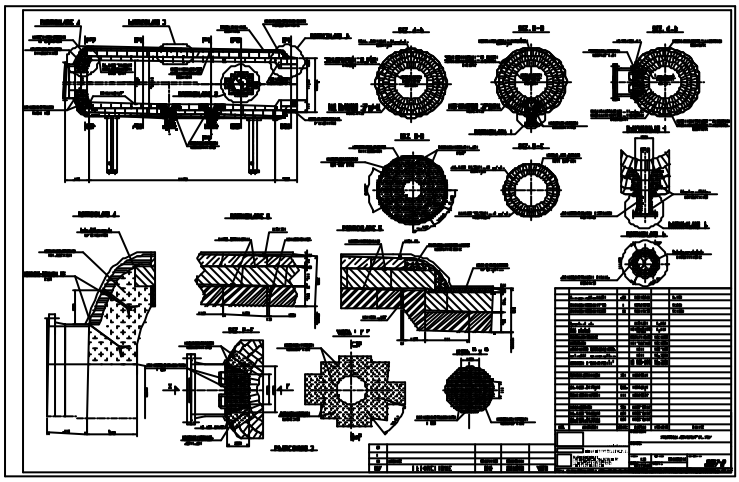
QUALITY	Description
MAREF 95 AT - MAREF 99 LICOFEST H195 C - LICOFEST H197 C	high alumina bricks dense refractory castables
LICOCLAY X 41 - LICOCLAY X 415 LICOFEST H195 C - LICOFEST H197 C	plastic mouldables dense refractory castables
LB FERRULES	precision shapes
SPECIAL BLOCKS MAREF 95 AT - MAREF 99	high alumina bricks high alumina bricks
ISOM 30 - ISOM 28 ISOM 26 - ISOM 23	insulating bricks insulating bricks
LICOFEST LW 203 C LICOFEST MW 27	medium weight castable medium weight castable
BURNER BLOCK SPECIAL SHAPES	precast shapes precast shapes

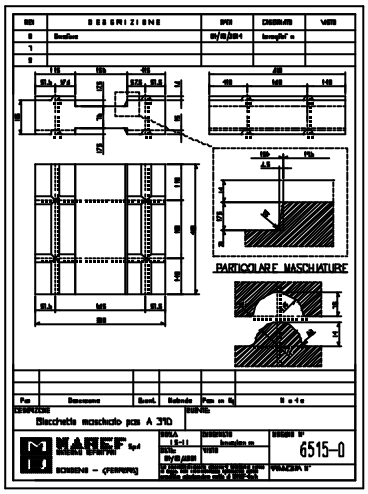
ENGINEERING AND SUPERVISION

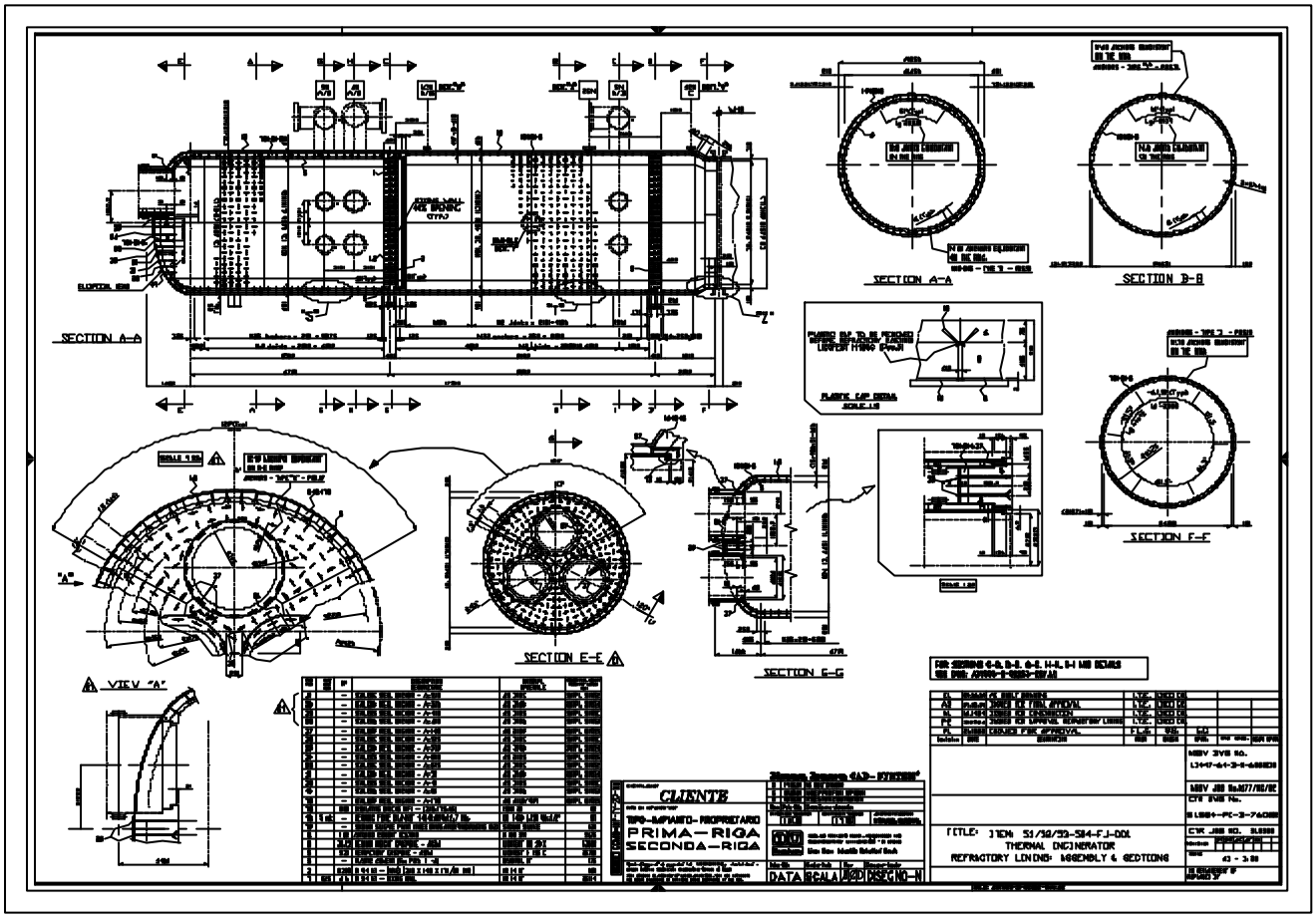
The engineering jobs and construction team, which is backed by the associated company ITE Industrial Technologies and engineering Srl, provide a full engineering package either for linings and casings, inclusive of heat flow calculation, bills of material, owner's manual as well as qualified supervision on site.

INGEGNERIA E SUPERVISIONE

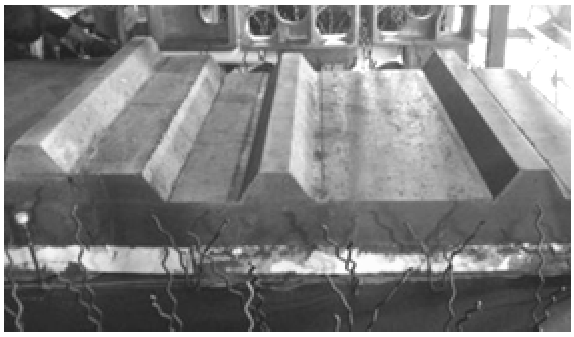
Il team engineering e costruzioni, supportato dalla consociata ITE Industrial Technologies and engineering Srl, fornisce un servizio completo di progettazione per i rivestimenti refrattari e le relative carpenterie. Le prestazioni includono calcoli dei flussi termici, capitolati e distinte materiali, manuali ed istruzioni per l'utilizzatore nonchè servizi di supervisione sul campo.







SITE / SHOP ERECTIONS & CONTRACTING
MONTAGGI E SUPERVISIONI



A departement with experience in dismounting / installing refractory and insulating materials in heavy industries over the last 30 years. Cost efficiency, dedication to manual work and highly appreciated precision characterizes this outstanding operation.

Support stuff provides inspections, evaluating each job independently. Field-supervisors offer their practical know how in design and construction of refractory linings, tailored to customers need.

Domestic and international contracts are managed in time, whether on scheduled or emergency shutdowns, from material disposal to manpower availability.

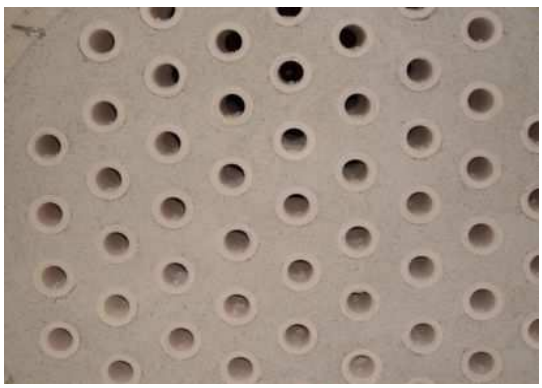
Skilled personnel, using modern installation equipment, work with all common refractory and/or insulating materials available.

Operiamo con un' esperienza di oltre 30 anni nell'industria pesante con montaggi ed installazione di materiali refrattari ed isolanti; l'ottima organizzazione, l'impegno costante del personale e la precisione dell'esecuzione sono caratteristiche fondamentali ed apprezzate dalla numerosa clientela.

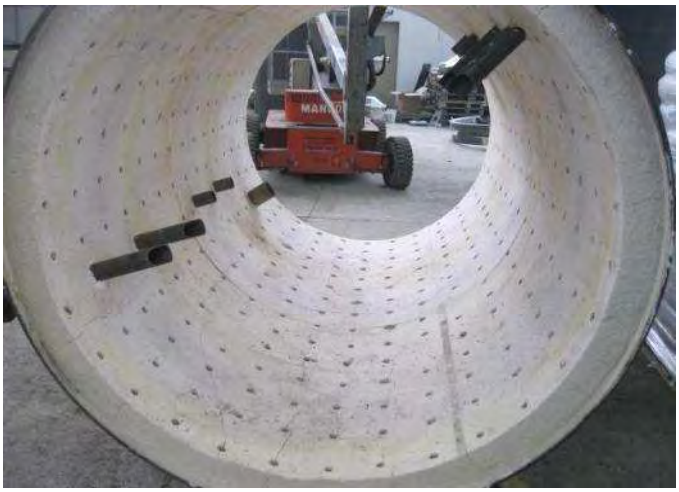
Ogni contratto è valutato indipendentemente da tecnici specializzati, in grado di offrire ogni attività di supporto, ed è condotto da supervisori con notevole esperienza tecnica e pratica delle costruzioni refrattarie.

Le attività di cantiere, eseguite in italia ed all'estero, sono eseguite nei tempi concordati con il cliente, spesso anche in situazioni di interventi non programmati; pertanto siamo in grado di gestire tutte le necessità a partire dal reperimento dei materiali fino al montaggio ed essicazione.

Lo staff aziendale, dotato di macchinari efficienti, ha effettuato numerosi montaggi in ogni settore industriale.



APPLICATIONS
APPLICAZIONI



APPLICATIONS
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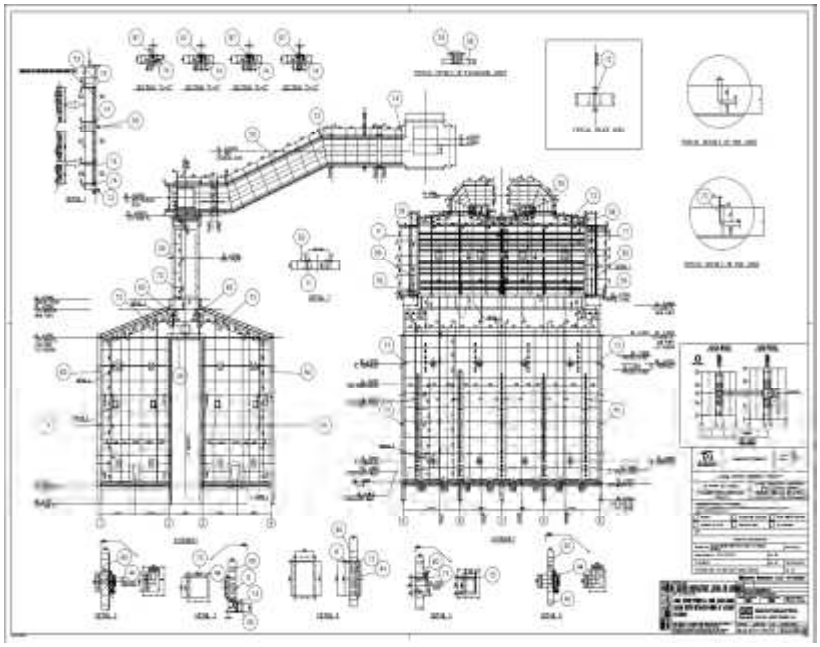

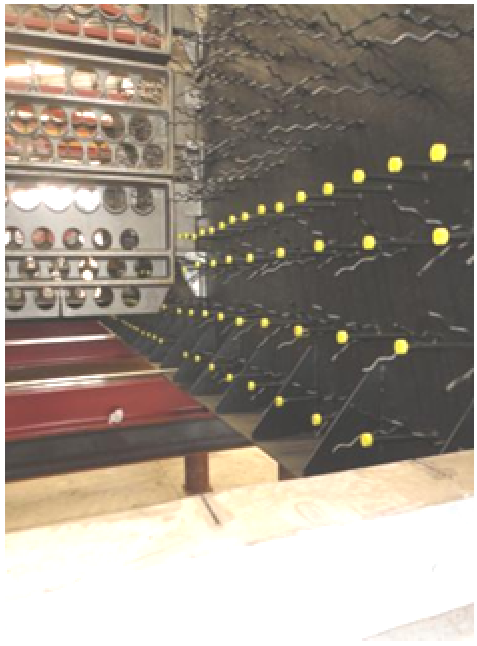

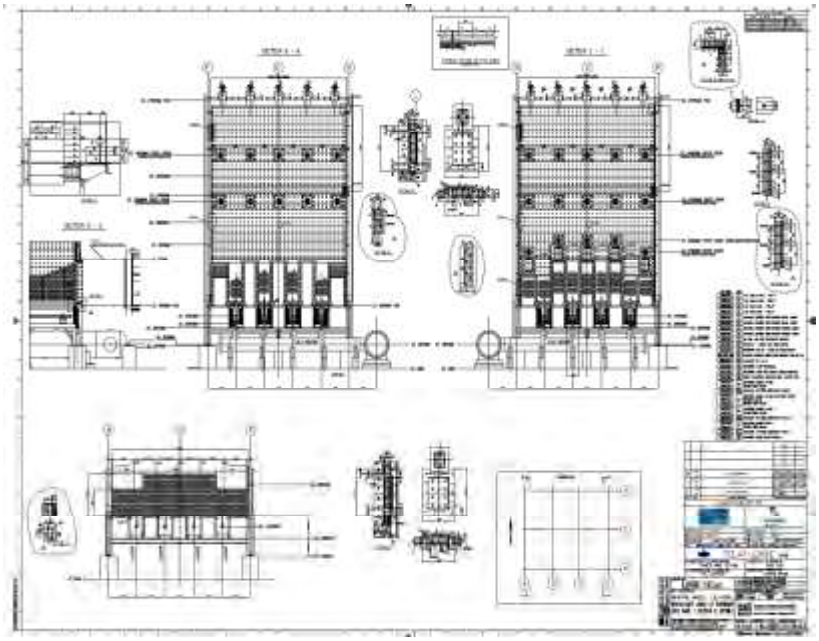

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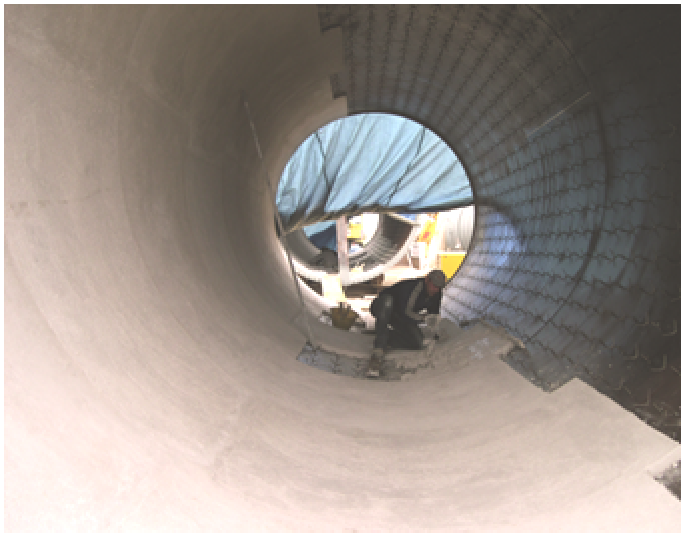
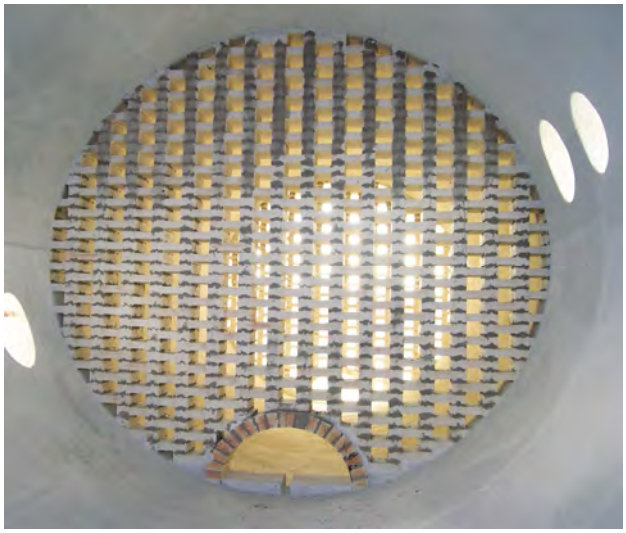
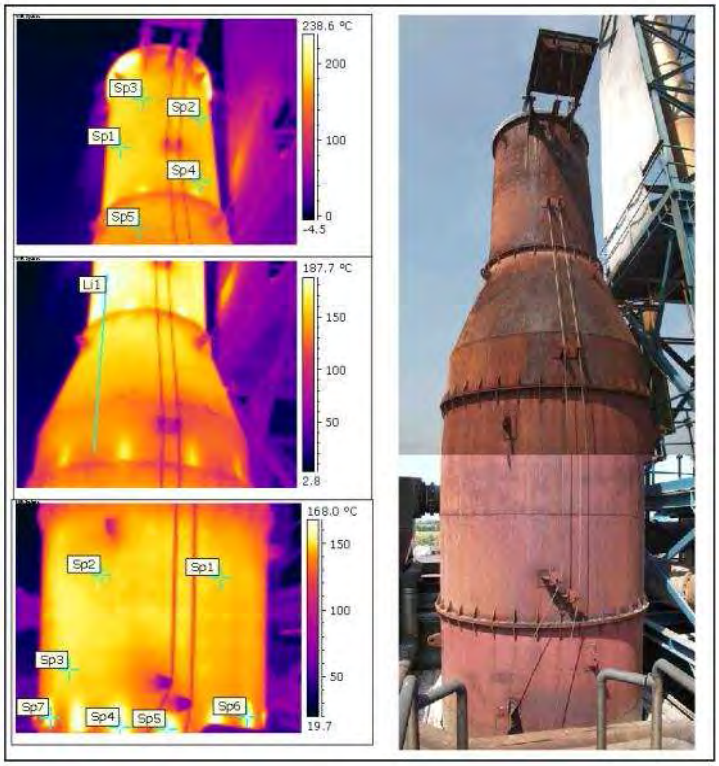


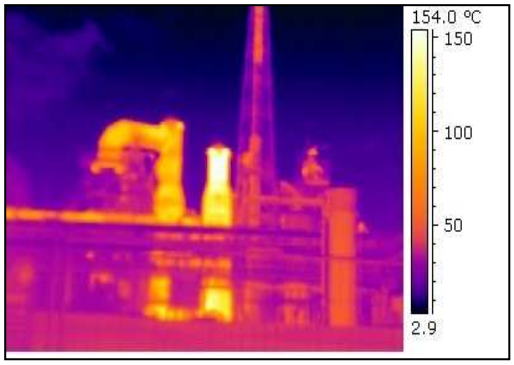


THERMOGRAPHY
TERMOGRAFIA

A in-house service of THERMOGRAPHY is provided by our licensed technicians; this useful check allows to monitor the heat transfer flow and then to forecast the expected lifetime of the linings. Expectancy of remaining lining life can be forecast and in such a way it is possible to plan a schedule of preventive maintenance on operating furnaces.

I nostri tecnici possono eseguire TERMOGRAFIE su impianti dei clienti. Questo servizio consente di monitorare i flussi termici e quindi di prevedere la vita residua del rivestimento, pianificando così le attività di manutenzione preventiva del forno.





TERMS & INSTRUCTIONS
CONDIZIONI DI VENDITA E ISTRUZIONI PER L'USO

The above information is based on the results of routine production tests. As such is subject to slight variation and therefore should not be used as a specification do not imply or express warranty of any kind. The figures are correct at the time of publishing (Nov 2013). ASTM procedures, and EXXON-BP 19.3.3 / EXXON-GP 19.3.3 standards, where applicable, are used for determining the information.Variations to standard products may cause deviations from the figures in this catalogue (Nov 2013). We recommend that operational temperature limits placed on the products are 100/150°C below the max. temp. (T. max), given a clean, non-corrosive neutral furnace atmosphere. Complete data sheets will be given on request. LINCO BAXO may develop and manufacture variants of products, totally and specifically tailored to customers requirements.

Le caratteristiche tecniche indicate sono valori medi tipici ottenuti dal nostro laboratorio su controlli di produzione.I dati riportati sono soggetti a ragionevoli variazioni, non devono essere usati come valori di specifica e non implicano alcuna garanzia. I dati sono applicabili solo a materiali prodotti alla data di pubblicazione del presente catalogo (Nov 2013). La normativa ASTM, e lo standard EXXON-IP 19.3.3 / EXXON-GP 19.3.3, quando applicabile, vengono utilizzati per la determinazione dei risultati. Varianti di prodotto possono presentare dati diversi del presente catalogo (Nov 2013).Raccomandiamo che la temperatura normale di esercizio dei prodotti sia almeno 100/150°C inferiore alla temp. Max. (T. max), in atmosfera neutra e non corrosiva. Schede tecniche complete vengono fornite su richiesta. LINCO BAXO è disponibile a sviluppare e produrre varianti di prodotti adatte ad esigenze specifiche dell'utilizzatore.

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