



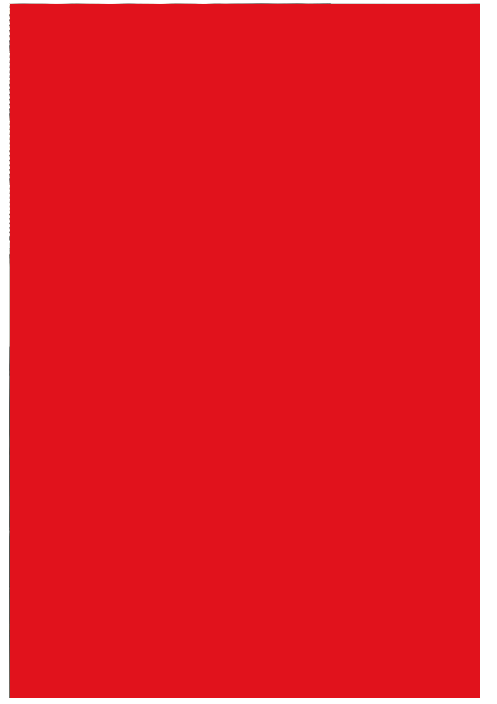
# SELKO ATEŞ TUĞLA



**2024**

## REFRAKTER MALZEMELER





Üretimin  
Her Aşamasında  
**Önce Kalite**

**Where Quality  
Inspires Trust**







## HAKKIMIZDA / ABOUT US

1987 yılında makine mühendisi Selahattin Kalaycı tarafından kurulan Selko Ateş Tuğla, kuruluşundan itibaren Ar-Ge ve kaliteye öncelik vererek kısa süre içerisinde Türkiye'nin önde gelen sanayi kuruluşlarının tedarikçisi olmayı başarmıştır. 1993 yılında anonim şirket olan Selko, ürün çeşitliliğinin ve taleplerin artması sonucunda, 2003 yılında Bartın Organize Sanayi Bölgesi'ndeki 70.000 m2 alana sahip bugünkü yerine taşınmıştır. TSE ISO 9001 kalite yönetim sistemi belgesine sahip olan firma, son teknoloji modern laboratuvarlarıyla hammaddenin girişinden itibaren üretimin her aşamasında oluşturduğu kontrol sistemiyle ürün kalitesinin sürekliliğini sağlamaktadır. Bugün 40. yılına yaklaşırken 20.000 Ton/yıl kapasiteyle alümina silikat esaslı şekilli ve şekilsiz her türlü refrakter malzeme üretimi yapmakta, yurt içi ve yurt dışı demir-çelik, çimento, kireç, cam, demir dışı metaller, enerji santralleri, petrokimya rafineleri ve geri dönüşüm tesisleri başta olmak üzere birçok farklı sektörden sanayi kuruluşuna hizmet etmektedir. 2022 yılında başlanan yeni yatırımlarla beraber Mustafa Kemal Atatürk'ün "Her fabrika bir kaledir" sözü ışığında, kurulu kapasitesini 2025 yılının sonuna kadar %50 oranında arttırmayı hedeflemektedir.

Founded in 1987 by mechanical engineer Selahattin Kalaycı, Selko Ateş Tuğla has swiftly risen to become a key supplier to Turkey's leading industrial corporations, driven by a strong focus on R&D and quality. In 1993, Selko transitioned into a joint-stock company and, due to increasing demand and product diversification, relocated to its current facility in the Bartın Organized Industrial Zone in 2003. This modern facility spans 70,000 m<sup>2</sup>. Equipped with the TSE ISO 9001 quality management system, the company ensures consistent product quality through rigorous control systems implemented at every stage of production, from raw material intake to final output in its state-of-the-art laboratories. As of today approaching 40th anniversary, Selko is a global provider of refractories, offering a wide range of alumina silicate-based shaped and unshaped refractories. With an annual production capacity of 20,000 tons, the company serves various industries, including iron and steel, cement, lime, glass, non-ferrous metals, power plants, petrochemicals, and recycling. Looking ahead, with new investments set to be completed by the end of 2025, the company's production capacity is expected to increase by 50%, inspired by the words of Mustafa Kemal Atatürk : "Every factory is a castle."

| KALİTE<br>QUALITY | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL)   |                  |                                |                  |         |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                             |                                                        |                                                             |                                                 |       |                                    |       |
|-------------------|------------------------------------------------------------------|------------------|--------------------------------|------------------|---------|------------------------------------|-------------------------------------------------------------|---------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|-------|------------------------------------|-------|
|                   |                                                                  |                  |                                |                  |         |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Apparent<br>Porosity<br>Görünür<br>Porozite | Cold Crushing<br>Strength<br>Soğuk Basma<br>Mukavemeti | Refractoriness<br>Under Load<br>Yük Altında<br>Refrakterlik | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |       | Thermal Expansion<br>Isıl Genleşme |       |
|                   | Al <sub>2</sub> O <sub>3</sub>                                   | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO+MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                                             |                                                        |                                                             | 800°                                            | 1100° | 800°                               | 1000° |
|                   | %                                                                | %                | %                              | %                | %       | %                                  | g/cm <sup>3</sup>                                           | %                                           | kg/cm <sup>2</sup>                                     | Ta°C                                                        | %                                               | %     | %                                  | %     |
| SEL AS            | 24,0                                                             | 68,0             | 1,5                            | 1,0              | 1,5     | 3,0                                | 2,15                                                        | 12,0                                        | 750                                                    | 1.250                                                       |                                                 |       |                                    |       |
|                   | Aside dayanıklı tuğla / Acid resistant brick.                    |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL S             | 25,0                                                             | 65,0             | 2,0                            | 1,5              | 1,5     | 3,0                                | 2,15                                                        | 16,0                                        | 450                                                    | 1.200                                                       | 1,6                                             | 1,7   | 0,4                                | 0,6   |
|                   | Sert Şamot esaslı tuğla / Fireclay brick based on hard fireclay. |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C30           | 30,0                                                             | 62,0             | 2,1                            | 1,5              | 1,5     | 2,5                                | 2,15                                                        | 17,0                                        | 450                                                    | 1.270                                                       | 1,6                                             | 1,7   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C35           | 35,0                                                             | 57,0             | 2,2                            | 1,5              | 1,5     | 2,5                                | 2,20                                                        | 18,0                                        | 450                                                    | 1.280                                                       | 1,6                                             | 1,7   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C40           | 41,0                                                             | 53,0             | 1,8                            | 2,2              | 0,8     | 0,8                                | 2,30                                                        | 17,0                                        | 500                                                    | 1.300                                                       | 1,4                                             | 1,5   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C40S          | 41,0                                                             | 53,0             | 1,4                            | 2,2              | 0,8     | 0,8                                | 2,30                                                        | 17,0                                        | 500                                                    | 1.300                                                       | 1,4                                             | 1,5   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C42           | 43,0                                                             | 51,0             | 1,5                            | 1,8              | 0,7     | 0,8                                | 2,30                                                        | 17,0                                        | 600                                                    | 1.330                                                       | 1,5                                             | 1,6   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C45           | 46,0                                                             | 48,0             | 1,7                            | 2,2              | 0,7     | 0,8                                | 2,30                                                        | 17,0                                        | 550                                                    | 1.360                                                       | 1,5                                             | 1,6   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |
| SEL C45S          | 46,0                                                             | 48,0             | 1,5                            | 2,2              | 0,7     | 0,8                                | 2,30                                                        | 17,0                                        | 600                                                    | 1.360                                                       | 1,5                                             | 1,6   | 0,4                                | 0,6   |
|                   | Şamot esaslı tuğla / Fireclay brick based on chamotte.           |                  |                                |                  |         |                                    |                                                             |                                             |                                                        |                                                             |                                                 |       |                                    |       |





# YÜKSEK ALÜMİNA TUĞLALAR

## HIGH ALUMINA BRICKS



| KALİTE<br>QUALITY                                                                                                          | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL) |                       |                                     |                       |              |                                         |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                              |                                                           |                                                             |                                                 |       |                                      |       |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|-----------------------|-------------------------------------|-----------------------|--------------|-----------------------------------------|------------------------------------|-------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|-------|--------------------------------------|-------|
|                                                                                                                            |                                                                |                       |                                     |                       |              |                                         |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Appearent<br>Porosity<br>Görünür<br>Porozite | Cold<br>Crushing<br>Strength<br>Soğuk Basma<br>Mukavemeti | Refractoriness<br>Under Load<br>Yük Altında<br>Refrakterlik | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |       | Thermal Expansion<br>Isısal Genleşme |       |
|                                                                                                                            |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             | 800°                                            | 1100° | 800°                                 | 1000° |
|                                                                                                                            | Al <sub>2</sub> O <sub>3</sub><br>%                            | SiO <sub>2</sub><br>% | Fe <sub>2</sub> O <sub>3</sub><br>% | TiO <sub>2</sub><br>% | CaO+MgO<br>% | Na <sub>2</sub> O+K <sub>2</sub> O<br>% | P <sub>2</sub> O <sub>5</sub><br>% |                                                             |                                              |                                                           |                                                             | g/cm <sup>3</sup>                               | %     | kg/cm <sup>2</sup>                   | Ta°C  |
| SEL B50                                                                                                                    | 50,0                                                           | 43,0                  | 1,7                                 | 2,2                   | 0,6          | 0,6                                     |                                    | 2,4                                                         | 17,0                                         | 550                                                       | 1.380                                                       | 1,6                                             | 1,7   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B50 S                                                                                                                  | 51,0                                                           | 43,0                  | 1,5                                 | 2,2                   | 0,6          | 0,6                                     |                                    | 2,4                                                         | 17,0                                         | 550                                                       | 1.380                                                       | 1,6                                             | 1,7   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B55                                                                                                                    | 55,0                                                           | 37,0                  | 1,9                                 | 2,2                   | 0,6          | 0,6                                     |                                    | 2,45                                                        | 18,0                                         | 650                                                       | 1.400                                                       | 1,7                                             | 1,8   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B55 S                                                                                                                  | 56,0                                                           | 38,0                  | 1,6                                 | 2,0                   | 0,6          | 0,5                                     |                                    | 2,45                                                        | 18,0                                         | 650                                                       | 1.400                                                       | 1,7                                             | 1,8   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B60                                                                                                                    | 60,0                                                           | 34,0                  | 1,9                                 | 2,5                   | 0,6          | 0,6                                     |                                    | 2,50                                                        | 19,0                                         | 650                                                       | 1.420                                                       | 1,8                                             | 1,9   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B60 S                                                                                                                  | 61,0                                                           | 33,0                  | 1,7                                 | 2,3                   | 0,6          | 0,5                                     |                                    | 2,50                                                        | 19,0                                         | 650                                                       | 1.420                                                       | 1,8                                             | 1,9   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B60 CB                                                                                                                 | 61,0                                                           | 31,0                  | 1,8                                 | 2,5                   | 0,6          | 0,6                                     | 1,0                                | 2,50                                                        | 17,0                                         | 700                                                       | 1.430                                                       | 1,8                                             | 1,9   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B65                                                                                                                    | 65,0                                                           | 29,0                  | 1,8                                 | 2,7                   | 0,6          | 0,5                                     |                                    | 2,55                                                        | 18,0                                         | 700                                                       | 1.430                                                       | 1,9                                             | 2,0   | 0,5                                  | 0,6   |
| Şamot ve boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and chamotte.                     |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B70                                                                                                                    | 70,0                                                           | 23,0                  | 1,9                                 | 3,0                   | 0,6          | 0,5                                     |                                    | 2,60                                                        | 19,0                                         | 800                                                       | 1.440                                                       | 2,0                                             | 2,1   | 0,5                                  | 0,7   |
| Boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite .                                          |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B75                                                                                                                    | 75,0                                                           | 19,0                  | 1,8                                 | 3,0                   | 0,6          | 0,5                                     |                                    | 2,70                                                        | 19,0                                         | 850                                                       | 1.460                                                       | 2,1                                             | 2,2   | 0,5                                  | 0,7   |
| Boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite .                                          |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B80                                                                                                                    | 80,0                                                           | 13,0                  | 1,8                                 | 3,0                   | 0,6          | 0,6                                     |                                    | 2,75                                                        | 19,0                                         | 900                                                       | 1.480                                                       | 2,1                                             | 2,2   | 0,6                                  | 0,7   |
| Boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite .                                          |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B85                                                                                                                    | 83,0                                                           | 10,0                  | 1,8                                 | 3,0                   | 0,6          | 0,6                                     |                                    | 2,80                                                        | 18,0                                         | 950                                                       | 1.500                                                       | 2,2                                             | 2,3   | 0,7                                  | 0,8   |
| Boksit esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite .                                          |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL B85 S                                                                                                                  | 83,0                                                           | 10,0                  | 1,6                                 | 3,0                   | 0,6          | 0,6                                     |                                    | 2,80                                                        | 18,0                                         | 1000                                                      | 1.500                                                       | 2,2                                             | 2,3   | 0,7                                  | 0,8   |
| Boksit ve kalsine alumina esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and Calcined Alumina.   |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |
| SEL K90                                                                                                                    | 90,0                                                           | 6,0                   | 0,4                                 | 1,2                   | 0,3          | 0,5                                     |                                    | 2,90                                                        | 18,0                                         | 1000                                                      | 1.550                                                       | 2,4                                             | 2,5   | 0,6                                  | 0,8   |
| Boksit ve sentetik alumina esaslı pişmiş yüksek alumina tuğla / High alumina brick based on bauxite and Synthetic Alumina. |                                                                |                       |                                     |                       |              |                                         |                                    |                                                             |                                              |                                                           |                                                             |                                                 |       |                                      |       |





## ANDALUZİT TUĞLALAR

### ANDALUSITE BRICKS



| KALİTE<br>QUALITY                                                                               | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL) |      |      |     |     |     |     | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                              |                                                        |                                                             |                                                 |                  |                                      |                  |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------|------|-----|-----|-----|-----|-------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|------------------|--------------------------------------|------------------|
|                                                                                                 |                                                                |      |      |     |     |     |     | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Appearent<br>Porosity<br>Görünür<br>Porozite | Cold Crushing<br>Strength<br>Soğuk Basma<br>Mukavemeti | Refractoriness<br>Under Load<br>Yük Altında<br>Refrakterlik | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |                  | Thermal Expansion<br>Isısal Genleşme |                  |
|                                                                                                 |                                                                |      |      |     |     |     |     |                                                             |                                              |                                                        |                                                             | 800°                                            | 1100°            | 800°                                 | 1000°            |
|                                                                                                 |                                                                |      |      |     |     |     |     |                                                             |                                              |                                                        |                                                             | Al <sub>2</sub> O <sub>3</sub>                  | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub>       | TiO <sub>2</sub> |
|                                                                                                 | SEL AN45                                                       | 46,0 | 50,0 | 1,0 | 1,5 | 0,5 | 0,5 |                                                             | 2,45                                         | 14,0                                                   | 650                                                         | 1.450                                           | 1,6              | 1,7                                  | 0,4              |
| Andaluzit ve Şamot esaslı alumina tuğla / Fired alumina brick based on andalusite and chamotte. |                                                                |      |      |     |     |     |     |                                                             |                                              |                                                        |                                                             |                                                 |                  |                                      |                  |
| SEL AN55                                                                                        | 56,0                                                           | 41,0 | 1,0  | 0,4 | 0,3 | 0,4 |     | 2,55                                                        | 15,0                                         | 900                                                    | 1.570                                                       | 1,8                                             | 1,9              | 0,4                                  | 0,6              |
| Andaluzit esaslı alumina tuğla / Fired alumina brick based on andalusite.                       |                                                                |      |      |     |     |     |     |                                                             |                                              |                                                        |                                                             |                                                 |                  |                                      |                  |
| SEL AN60                                                                                        | 61,0                                                           | 37,0 | 0,8  | 0,3 | 0,3 | 0,4 |     | 2,60                                                        | 15,0                                         | 900                                                    | 1.600                                                       | 1,9                                             | 2,0              | 0,4                                  | 0,6              |
| Andaluzit esaslı alumina tuğla / Fired alumina brick based on andalusite                        |                                                                |      |      |     |     |     |     |                                                             |                                              |                                                        |                                                             |                                                 |                  |                                      |                  |
| SEL AN65                                                                                        | 66,0                                                           | 32,0 | 0,7  | 0,3 | 0,3 | 0,5 |     | 2,65                                                        | 15,0                                         | 800                                                    | 1.600                                                       | 2,0                                             | 2,1              | 0,4                                  | 0,6              |
| Andaluzit esaslı alumina tuğla / Fired alumina brick based on andalusite.                       |                                                                |      |      |     |     |     |     |                                                             |                                              |                                                        |                                                             |                                                 |                  |                                      |                  |



## ALÜMİNA-SİLİSYUM KARBÜR TUĞLALAR

### ALUMINA-SILICON CARBIDE BRICKS

| KALİTE<br>QUALITY                                                                                 | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL) |                  |      |                                |                  |         |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                              |                                                        |                                                             |                                                 |       |                                      |       |
|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------|------|--------------------------------|------------------|---------|------------------------------------|-------------------------------------------------------------|----------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|-------|--------------------------------------|-------|
|                                                                                                   |                                                                |                  |      |                                |                  |         |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Appearent<br>Porosity<br>Görünür<br>Porozite | Cold Crushing<br>Strength<br>Soğuk Basma<br>Mukavemeti | Refractoriness<br>Under Load<br>Yük Altında<br>Refrakterlik | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |       | Thermal Expansion<br>Isısal Genleşme |       |
|                                                                                                   | Al <sub>2</sub> O <sub>3</sub>                                 | SiO <sub>2</sub> | SiC  | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO+MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                                              |                                                        |                                                             | 800°                                            | 1100° | 800°                                 | 1000° |
|                                                                                                   | %                                                              | %                | %    | %                              | %                | %       | %                                  | g/cm <sup>3</sup>                                           | %                                            | kg/cm <sup>2</sup>                                     | Ta°C                                                        | %                                               | %     | %                                    | %     |
| SEL AN SC5                                                                                        | 53,0                                                           | 39,0             | 5,0  | 0,9                            | 0,4              | 0,3     | 0,5                                | 2,6                                                         | 14,0                                         | 800                                                    | 1.530                                                       | 2,2                                             | 2,4   | 0,7                                  | 0,9   |
| Andaluzit ve SiC esaslı pişmiş alumina tuğla / ASC brick based on andalusite and silicon carbide. |                                                                |                  |      |                                |                  |         |                                    |                                                             |                                              |                                                        |                                                             |                                                 |       |                                      |       |
| SEL AN SC10                                                                                       | 50,0                                                           | 37,0             | 10,0 | 1,1                            | 0,4              | 0,3     | 0,5                                | 2,6                                                         | 14,0                                         | 800                                                    | 1.530                                                       | 2,3                                             | 2,5   | 0,7                                  | 0,9   |
| Andaluzit ve SiC esaslı pişmiş alumina tuğla / ASC brick based on andalusite and silicon carbide. |                                                                |                  |      |                                |                  |         |                                    |                                                             |                                              |                                                        |                                                             |                                                 |       |                                      |       |
| SEL AN SC15                                                                                       | 49,0                                                           | 33,0             | 15,0 | 1,1                            | 0,4              | 0,3     | 0,5                                | 2,6                                                         | 14,0                                         | 800                                                    | 1.530                                                       | 2,5                                             | 2,7   | 0,7                                  | 0,9   |
| Andaluzit ve SiC esaslı pişmiş alumina tuğla / ASC brick based on andalusite and silicon carbide. |                                                                |                  |      |                                |                  |         |                                    |                                                             |                                              |                                                        |                                                             |                                                 |       |                                      |       |



| KALİTE<br>QUALITY | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL)                          |                  |                                |                  |     |     |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                                              |                                                             |                           |                                                |                                                 |       |
|-------------------|-----------------------------------------------------------------------------------------|------------------|--------------------------------|------------------|-----|-----|------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------|------------------------------------------------|-------------------------------------------------|-------|
|                   |                                                                                         |                  |                                |                  |     |     |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Cold<br>Crushing<br>Strength<br>Soğuk<br>Basma<br>Mukavemeti | Water<br>Needed for<br>Appl.<br>Uygulama<br>Suyu<br>Miktarı | Grain Size<br>Tane Boyutu | Service<br>Temperature<br>Çalışma<br>Sıcaklığı | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |       |
|                   | Al <sub>2</sub> O <sub>3</sub>                                                          | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO | MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                                                              |                                                             |                           |                                                | 800°                                            | 1100° |
|                   | %                                                                                       | %                | %                              | %                | %   | %   | %                                  | g/cm <sup>3</sup>                                           | kg/cm <sup>2</sup>                                           | lt / 100 kg                                                 | mm                        | °C                                             | %                                               | %     |
| SELCAST C30       | 29,0                                                                                    | 51,0             | 4,5                            | 1,5              | 8,0 | 0,5 | 4,5                                | 2,10                                                        | 400                                                          | 10                                                          | 0 - 5                     | 1.150                                          | 0,7                                             | 0,9   |
|                   | Hidrolik bağlı sert şamot refrakter beton / Hydraulic bonded hard fireclay castable.    |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST C40       | 41,0                                                                                    | 42,0             | 4,5                            | 2,2              | 8,0 | 0,5 | 1,0                                | 2,20                                                        | 400                                                          | 10                                                          | 0 - 5                     | 1.200                                          | 0,9                                             | 1,1   |
|                   | Hidrolik bağlı şamot refrakter beton / Hydraulic bonded fireclay castable.              |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST C45       | 45,0                                                                                    | 39,0             | 4,5                            | 2,1              | 7,5 | 0,5 | 1,0                                | 2,20                                                        | 400                                                          | 10                                                          | 0 - 5                     | 1.300                                          | 0,9                                             | 1,1   |
|                   | Hidrolik bağlı şamot refrakter beton / Hydraulic bonded fireclay castable.              |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B50       | 51,0                                                                                    | 18,0             | 1,6                            | 2,3              | 7,0 | 0,4 | 0,6                                | 2,25                                                        | 400                                                          | 10                                                          | 0 - 5                     | 1.350                                          | 1,1                                             | 1,3   |
|                   | Hidrolik bağlı orta alumina refrakter beton / Hydraulic bonded middle alumina castable. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B60       | 61,0                                                                                    | 28,0             | 1,8                            | 2,5              | 5,0 | 0,4 | 0,6                                | 2,40                                                        | 400                                                          | 10                                                          | 0 - 5                     | 1.400                                          | 1,2                                             | 1,4   |
|                   | Hidrolik bağlı yüksek alumina refrakter beton / Hydraulic bonded high alumina castable. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B70       | 71,0                                                                                    | 18,0             | 1,7                            | 2,5              | 5   | 0,4 | 0,6                                | 2,55                                                        | 600                                                          | 9                                                           | 0 - 5                     | 1.450                                          | 1,4                                             | 1,6   |
|                   | Hidrolik bağlı yüksek alumina refrakter beton / Hydraulic bonded high alumina castable. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B75       | 75,0                                                                                    | 14,0             | 1,7                            | 2,8              | 5   | 0,4 | 0,6                                | 2,60                                                        | 600                                                          | 9                                                           | 0 - 5                     | 1.480                                          | 1,5                                             | 1,7   |
|                   | Hidrolik bağlı yüksek alumina refrakter beton / Hydraulic bonded high alumina castable. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B80       | 81,0                                                                                    | 8,0              | 1,7                            | 3,0              | 4,5 | 0,4 | 0,6                                | 2,65                                                        | 650                                                          | 9                                                           | 0 - 5                     | 1.500                                          | 1,5                                             | 1,8   |
|                   | Hidrolik bağlı yüksek alumina refrakter beton / Hydraulic bonded high alumina castable. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B85       | 85,0                                                                                    | 5,0              | 1,5                            | 3                | 4,5 | 0,4 | 0,6                                | 2,70                                                        | 650                                                          | 9                                                           | 0 - 5                     | 1.530                                          | 1,7                                             | 1,9   |
|                   | Hidrolik bağlı yüksek alumina refrakter beton / Hydraulic bonded high alumina castable. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |

## DÜŞÜK ÇİMENTOLU BETONLAR

### LOW CEMENT CASTABLES

| KALİTE<br>QUALITY | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL)                                    |                  |                                |                  |     |     |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                                              |                                                             |                           |                                                |                                                 |       |
|-------------------|---------------------------------------------------------------------------------------------------|------------------|--------------------------------|------------------|-----|-----|------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------|---------------------------|------------------------------------------------|-------------------------------------------------|-------|
|                   |                                                                                                   |                  |                                |                  |     |     |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Cold<br>Crushing<br>Strength<br>Soğuk<br>Basma<br>Mukavemeti | Water<br>Needed for<br>Appl.<br>Uygulama<br>Suyu<br>Miktarı | Grain Size<br>Tane Boyutu | Service<br>Temperature<br>Çalışma<br>Sıcaklığı | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |       |
|                   | Al <sub>2</sub> O <sub>3</sub>                                                                    | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO | MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                                                              |                                                             |                           |                                                | 800°                                            | 1100° |
|                   | %                                                                                                 | %                | %                              | %                | %   | %   | %                                  | g/cm <sup>3</sup>                                           | kg/cm <sup>2</sup>                                           | lt / 100 kg                                                 | mm                        | °C                                             | %                                               | %     |
| SELCAST C40 LC    | 41,0                                                                                              | 50,0             | 1,2                            | 1,5              | 4,0 | 0,5 | 1,0                                | 2,3                                                         | 400                                                          | 8                                                           | 0 - 5                     | 1.300                                          | 1,5                                             | 1,6   |
|                   | Şamot esaslı düşük çimentolu beton / Low cement castable based on chamotte.                       |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST C45 LC    | 45,0                                                                                              | 47,0             | 1,2                            | 1,5              | 3,5 | 0,5 | 1,0                                | 2,3                                                         | 400                                                          | 8                                                           | 0 - 5                     | 1.350                                          | 1,5                                             | 1,6   |
|                   | Şamot esaslı düşük çimentolu beton / Low cement castable based on chamotte.                       |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST C50 LC    | 51,0                                                                                              | 42,0             | 1,2                            | 1,5              | 2,5 | 0,5 | 1,0                                | 2,35                                                        | 450                                                          | 8                                                           | 0 - 5                     | 1.430                                          | 1,6                                             | 1,7   |
|                   | Şamot ve boksit esaslı düşük çimentolu beton / Low cement castable based on chamotte and bauxite  |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST C60 LC    | 61,0                                                                                              | 32,0             | 1,4                            | 1,8              | 2,5 | 0,4 | 0,6                                | 2,45                                                        | 600                                                          | 8                                                           | 0 - 5                     | 1.480                                          | 1,7                                             | 1,8   |
|                   | Şamot ve boksit esaslı düşük çimentolu beton / Low cement castable based on chamotte and bauxite. |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST AN60 LC   | 61,0                                                                                              | 34,0             | 0,7                            | 1,0              | 2,0 | 0,2 | 0,5                                | 2,65                                                        | 600                                                          | 6                                                           | 0 - 5                     | 1.550                                          | 1,8                                             | 1,9   |
|                   | Andaluzit esaslı düşük çimentolu beton / Low cement castable based on andalusite.                 |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST AN65 LC   | 66,0                                                                                              | 27,0             | 0,7                            | 0,6              | 2,0 | 0,2 | 0,5                                | 2,70                                                        | 600                                                          | 6                                                           | 0 - 5                     | 1.580                                          | 1,9                                             | 2,0   |
|                   | Andaluzit esaslı düşük çimentolu beton / Low cement castable based on andalusite.                 |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B70 LC    | 72,0                                                                                              | 20,0             | 1,6                            | 2,5              | 2,5 | 0,4 | 0,6                                | 2,55                                                        | 600                                                          | 7                                                           | 0 - 5                     | 1.500                                          | 2,0                                             | 2,1   |
|                   | Boksit esaslı düşük çimentolu beton / Low cement castable based on bauxite.                       |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B75 LC    | 75,0                                                                                              | 17,0             | 1,6                            | 2,8              | 2,5 | 0,4 | 0,6                                | 2,60                                                        | 600                                                          | 7                                                           | 0 - 5                     | 1.520                                          | 2,0                                             | 2,1   |
|                   | Boksit esaslı düşük çimentolu beton / Low cement castable based on bauxite.                       |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B80 LC    | 81,0                                                                                              | 11,0             | 1,5                            | 3                | 2,2 | 0,4 | 0,6                                | 2,80                                                        | 700                                                          | 6                                                           | 0 - 5                     | 1.580                                          | 2,0                                             | 2,1   |
|                   | Boksit esaslı düşük çimentolu beton / Low cement castable based on bauxite.                       |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |
| SELCAST B85 LC    | 85,0                                                                                              | 8,0              | 1,0                            | 2,7              | 2,2 | 0,2 | 0,6                                | 2,85                                                        | 800                                                          | 6                                                           | 0 - 5                     | 1.600                                          | 2,1                                             | 2,2   |
|                   | Boksit esaslı düşük çimentolu beton / Low cement castable based on bauxite.                       |                  |                                |                  |     |     |                                    |                                                             |                                                              |                                                             |                           |                                                |                                                 |       |



| KALİTE<br>QUALITY | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL)                                        |                  |                                |                  |     |     |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                                           |                                                             |                              |                                                |                                                 |       |
|-------------------|-------------------------------------------------------------------------------------------------------|------------------|--------------------------------|------------------|-----|-----|------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------------|-------|
|                   |                                                                                                       |                  |                                |                  |     |     |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Cold<br>Crushing<br>Strength<br>Soğuk Basma<br>Mukavemeti | Water<br>Needed for<br>Appl.<br>Uygulama<br>Suyu<br>Miktarı | Grain Size<br>Tane<br>Boyutu | Service<br>Temperature<br>Çalışma<br>Sıcaklığı | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |       |
|                   | Al <sub>2</sub> O <sub>3</sub>                                                                        | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO | MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                                                           |                                                             |                              |                                                | 800°                                            | 1100° |
|                   | %                                                                                                     | %                | %                              | %                | %   | %   | %                                  | g/cm <sup>3</sup>                                           | kg/cm <sup>2</sup>                                        | lt / 100 kg                                                 | mm                           | °C                                             | %                                               | %     |
| SELGUN C40        | 40,0                                                                                                  | 42,0             | 5,0                            | 1,5              | 9,0 | 0,4 | 1,0                                | 2,15                                                        | 30,0                                                      | 14 - 15                                                     | 0 - 5                        | 1280                                           | 0,9                                             | 1,1   |
|                   | Hidrolik bağlı ve şamot esaslı püskürtme beton / Hydraulic bonded gunning castable based on chamotte. |                  |                                |                  |     |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |       |
| SELGUN C45        | 45,0                                                                                                  | 38,0             | 5,0                            | 1,5              | 9,0 | 0,4 | 1,0                                | 2,20                                                        | 30,0                                                      | 14 - 15                                                     | 0 - 5                        | 1300                                           | 0,9                                             | 1,1   |
|                   | Hidrolik bağlı ve şamot esaslı püskürtme beton / Hydraulic bonded gunning castable based on chamotte. |                  |                                |                  |     |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |       |
| SELGUN B50        | 50,0                                                                                                  | 37,0             | 1,6                            | 1,9              | 8,0 | 0,2 | 0,6                                | 2,20                                                        | 30,0                                                      | 14 - 15                                                     | 0 - 5                        | 1380                                           | 1,1                                             | 1,3   |
|                   | Hidrolik bağlı ve şamot esaslı püskürtme beton / Hydraulic bonded gunning castable based on chamotte. |                  |                                |                  |     |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |       |
| SELGUN B60        | 60,0                                                                                                  | 29,0             | 1,4                            | 2,0              | 6,0 | 0,2 | 0,6                                | 2,30                                                        | 35,0                                                      | 13 - 14                                                     | 0 - 5                        | 1430                                           | 1,2                                             | 1,4   |
|                   | Hidrolik bağlı ve şamot esaslı püskürtme beton / Hydraulic bonded gunning castable based on chamotte. |                  |                                |                  |     |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |       |
| SELGUN B70        | 70,0                                                                                                  | 19,0             | 1,6                            | 2,5              | 6,0 | 0,2 | 0,6                                | 2,50                                                        | 50,0                                                      | 12 - 13                                                     | 0 - 5                        | 1470                                           | 1,4                                             | 1,6   |
|                   | Hidrolik bağlı ve boksit esaslı püskürtme beton / Hydraulic bonded gunning castable based on bauxite. |                  |                                |                  |     |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |       |
| SELGUN B80        | 80,0                                                                                                  | 8,0              | 1,5                            | 2,7              | 6,0 | 0,2 | 0,6                                | 2,55                                                        | 50,0                                                      | 12 - 13                                                     | 0 - 5                        | 1500                                           | 1,5                                             | 1,8   |
|                   | Hidrolik bağlı ve boksit esaslı püskürtme beton / Hydraulic bonded gunning castable based on bauxite. |                  |                                |                  |     |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |       |

## İZOLE BETONLAR

### INSULATING CASTABLES

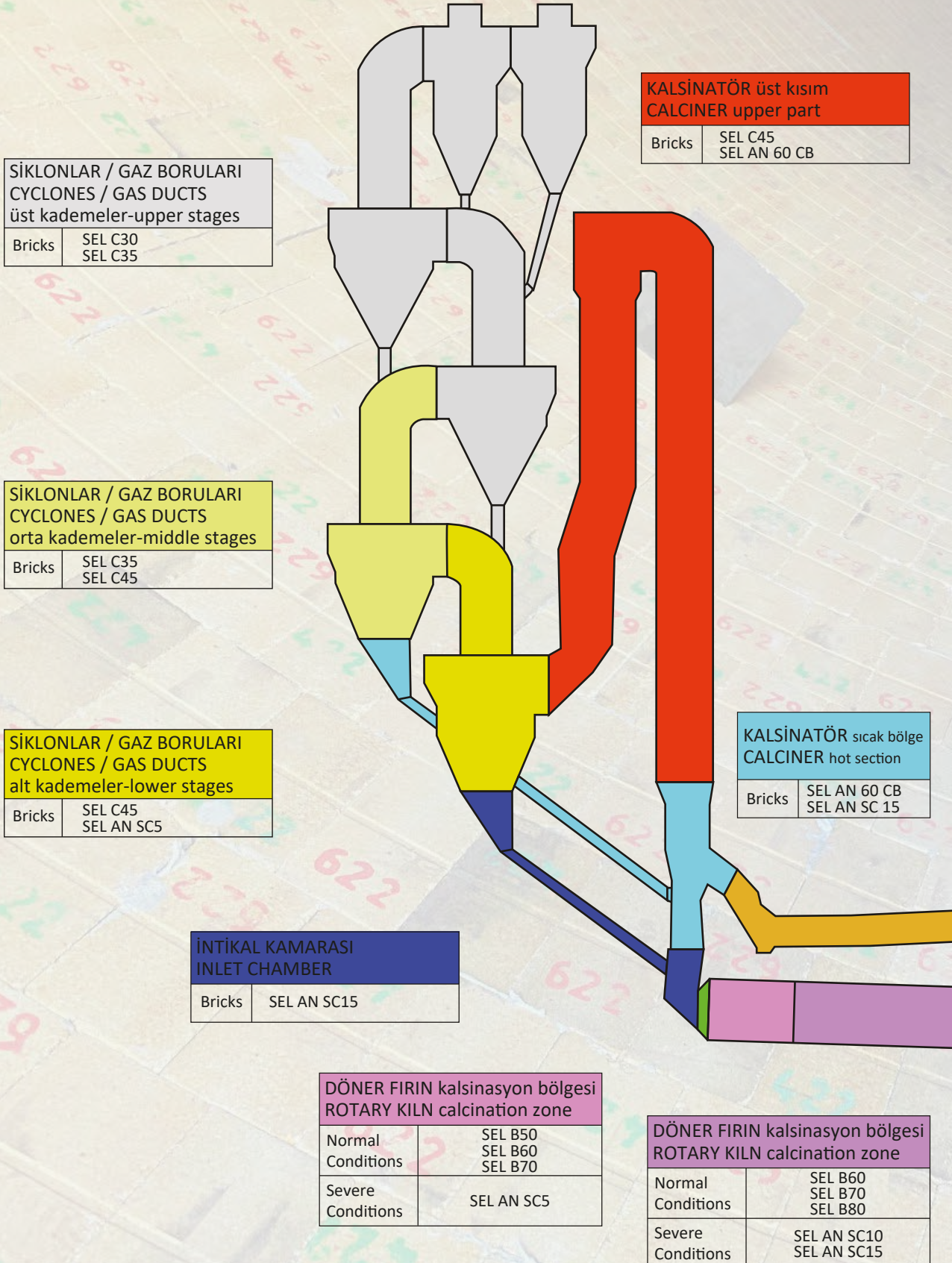
| KALİTE<br>QUALITY | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL) |                  |                                |                  |      |     |                                    | FİZİKSEL ÖZELLİKLER (TİPİK) / PHYSICAL PROPERTIES (TYPICAL) |                                                           |                                                             |                              |                                                |                                                 |      |
|-------------------|----------------------------------------------------------------|------------------|--------------------------------|------------------|------|-----|------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------|-------------------------------------------------------------|------------------------------|------------------------------------------------|-------------------------------------------------|------|
|                   |                                                                |                  |                                |                  |      |     |                                    | Bulk<br>Density<br>Hacim<br>Ağırlık                         | Cold<br>Crushing<br>Strength<br>Soğuk Basma<br>Mukavemeti | Water<br>Needed for<br>Appl.<br>Uygulama<br>Suyu<br>Miktarı | Grain Size<br>Tane<br>Boyutu | Service<br>Temperature<br>Çalışma<br>Sıcaklığı | Thermal Cond. /<br>Termal İletkenlik<br>(W/m.K) |      |
|                   | Al <sub>2</sub> O <sub>3</sub>                                 | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO  | MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                                                           |                                                             |                              |                                                | 500°                                            | 800° |
|                   | %                                                              | %                | %                              | %                | %    | %   | %                                  | g/cm <sup>3</sup>                                           | kg/cm <sup>2</sup>                                        | lt / 100 kg                                                 | mm                           | °C                                             | %                                               | %    |
| SELISOCAS 800     | 27,0                                                           | 44,0             | 7,0                            | 1,5              | 16,0 | 0,5 | 3,0                                | 0,70                                                        | 30,0                                                      | 90 - 100                                                    | 0 - 4                        | 800                                            | 0,2                                             | 0,25 |
|                   | İzolasyon betonu / Insulation castable.                        |                  |                                |                  |      |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |      |
| SELISOCAS 1000    | 27,0                                                           | 45,0             | 7,0                            | 1,2              | 16,0 | 0,5 | 2,5                                | 0,90                                                        | 40,0                                                      | 70 - 80                                                     | 0 - 4                        | 1000                                           | 0,25                                            | 3,0  |
|                   | İzolasyon betonu / Insulation castable.                        |                  |                                |                  |      |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |      |
| SELISOCAS 1200    | 32,0                                                           | 42,0             | 7,0                            | 1,5              | 14,0 | 0,4 | 2,0                                | 1,10                                                        | 60,0                                                      | 35 - 45                                                     | 0 - 4                        | 1200                                           | 0,35                                            | 0,4  |
|                   | İzolasyon betonu / Insulation castable.                        |                  |                                |                  |      |     |                                    |                                                             |                                                           |                                                             |                              |                                                |                                                 |      |

| KALİTE<br>QUALITY | KİMYASAL BİLEŞENLER (TİPİK) /<br>CHEMICAL COMPONENTS (TYPICAL)                                         |                  |                                |                  |         |                                    | Water<br>Needed for<br>Appl.<br>Uygulama<br>Suyu<br>Miktarı | Grain Size<br>Tane Boyutu | Service<br>Temperature<br>Çalışma Sıcaklığı |
|-------------------|--------------------------------------------------------------------------------------------------------|------------------|--------------------------------|------------------|---------|------------------------------------|-------------------------------------------------------------|---------------------------|---------------------------------------------|
|                   |                                                                                                        |                  |                                |                  |         |                                    |                                                             |                           |                                             |
|                   | Al <sub>2</sub> O <sub>3</sub>                                                                         | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | TiO <sub>2</sub> | CaO+MgO | Na <sub>2</sub> O+K <sub>2</sub> O |                                                             |                           |                                             |
|                   | %                                                                                                      | %                | %                              | %                | %       | %                                  |                                                             |                           |                                             |
| SELMOR C30        | 30,0                                                                                                   | 63,0             | 2,2                            | 2,0              | 1,0     | 1,0                                | 45 - 55                                                     | 0 - 0,5                   | 1.270                                       |
|                   | Şamot esaslı tuğlalar için örgü harcı / Lining mortar for chamotte bricks.                             |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR C35        | 35,0                                                                                                   | 58,0             | 2,5                            | 2,0              | 1,0     | 1,0                                | 45 - 55                                                     | 0 - 0,5                   | 1.280                                       |
|                   | Şamot esaslı tuğlalar için örgü harcı / Lining mortar for chamotte bricks.                             |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR C40        | 40,0                                                                                                   | 53,0             | 2,0                            | 2,2              | 1,0     | 1,0                                | 45 - 55                                                     | 0 - 0,5                   | 1.300                                       |
|                   | Şamot esaslı tuğlalar için örgü harcı / Lining mortar for chamotte bricks.                             |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR C40 S      | 41,0                                                                                                   | 53,0             | 1,5                            | 2,2              | 1,0     | 1,0                                | 45 - 55                                                     | 0 - 0,5                   | 1.320                                       |
|                   | Şamot esaslı tuğlalar için örgü harcı / Lining mortar for chamotte bricks.                             |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR C45        | 45,0                                                                                                   | 48,0             | 2,0                            | 2,4              | 1,0     | 1,0                                | 45 - 60                                                     | 0 - 0,5                   | 1.350                                       |
|                   | Şamot esaslı tuğlalar için örgü harcı / Lining mortar for chamotte bricks.                             |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR C45 S      | 45,0                                                                                                   | 49,0             | 1,4                            | 2,4              | 1,0     | 1,0                                | 45 - 60                                                     | 0 - 0,5                   | 1.370                                       |
|                   | Şamot esaslı tuğlalar için örgü harcı / Lining mortar for chamotte bricks.                             |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B50        | 51,0                                                                                                   | 42,0             | 2,0                            | 2,0              | 1,0     | 1,0                                | 40 - 50                                                     | 0 - 0,5                   | 1.430                                       |
|                   | Boksit ve şamot esaslı tuğlalar için örgü harcı / Lining mortar for bauxite and chamotte based bricks. |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B50 S      | 51,0                                                                                                   | 43,0             | 1,5                            | 2,0              | 1,0     | 1,0                                | 40 - 50                                                     | 0 - 0,5                   | 1.430                                       |
|                   | Boksit ve şamot esaslı tuğlalar için örgü harcı / Lining mortar for bauxite and chamotte based bricks. |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B60        | 60,0                                                                                                   | 33,0             | 2,1                            | 2,5              | 1,0     | 1,0                                | 40 - 50                                                     | 0 - 0,5                   | 1.480                                       |
|                   | Boksit esaslı tuğlalar için örgü harcı / Lining mortar for bauxite based bricks.                       |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B60 S      | 60,0                                                                                                   | 33,0             | 1,7                            | 2,5              | 1,0     | 1,0                                | 40 - 50                                                     | 0 - 0,5                   | 1.480                                       |
|                   | Boksit esaslı tuğlalar için örgü harcı / Lining mortar for bauxite based bricks.                       |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B70        | 70,0                                                                                                   | 23,0             | 2,0                            | 2,8              | 1,0     | 1,0                                | 35 - 45                                                     | 0 - 0,5                   | 1.530                                       |
|                   | Boksit esaslı tuğlalar için örgü harcı / Lining mortar for bauxite based bricks.                       |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B75        | 75,0                                                                                                   | 18,0             | 2,0                            | 2,9              | 1,0     | 1,0                                | 35 - 45                                                     | 0 - 0,5                   | 1.530                                       |
|                   | Boksit esaslı tuğlalar için örgü harcı / Lining mortar for bauxite based bricks.                       |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B80        | 80,0                                                                                                   | 13,0             | 1,8                            | 2,5              | 1,0     | 1,0                                | 35 - 45                                                     | 0 - 0,5                   | 1.550                                       |
|                   | Boksit esaslı tuğlalar için örgü harcı / Lining mortar for bauxite based bricks.                       |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR B85        | 83,0                                                                                                   | 11,0             | 1,4                            | 2,2              | 1,0     | 1,0                                | 35 - 45                                                     | 0 - 0,5                   | 1.580                                       |
|                   | Boksit esaslı tuğlalar için örgü harcı / Lining mortar for bauxite based bricks.                       |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR AN55       | 55,0                                                                                                   | 41,0             | 1,0                            | 0,5              | 1,0     | 1,0                                | 40 - 50                                                     | 0 - 0,5                   | 1.530                                       |
|                   | Andaluzit esaslı tuğlalar için örgü harcı / Lining mortar for andalusite based bricks.                 |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR AN60       | 60,0                                                                                                   | 35,0             | 0,9                            | 2,0              | 1,0     | 1,0                                | 35 - 45                                                     | 0 - 0,5                   | 1.550                                       |
|                   | Andaluzit esaslı tuğlalar için örgü harcı / Lining mortar for andalusite based bricks.                 |                  |                                |                  |         |                                    |                                                             |                           |                                             |
| SELMOR AN65       | 65,0                                                                                                   | 31,0             | 0,9                            | 1,0              | 1,0     | 1,0                                | 35 - 45                                                     | 0 - 0,5                   | 1.600                                       |
|                   | Andaluzit esaslı tuğlalar için örgü harcı / Lining mortar for andalusite based bricks.                 |                  |                                |                  |         |                                    |                                                             |                           |                                             |



## ÇİMENTO KALİTELERİ

### CEMENT QUALITIES





**TERSİYER HAVA BORUSU  
TERTIARY AIR DUCT**

|        |                    |
|--------|--------------------|
| Bricks | SEL C45<br>SEL B60 |
|--------|--------------------|

**TOZ SIKLONU / GİRİŞ BACASI  
TERTIARY CYCLONE / INLET DUCT**

|        |                         |
|--------|-------------------------|
| Bricks | SEL AN 60 CB<br>SEL B85 |
|--------|-------------------------|

**FIRIN KAFASI  
KILN HOOD**

|        |                    |
|--------|--------------------|
| Bricks | SEL B80<br>SEL B85 |
|--------|--------------------|

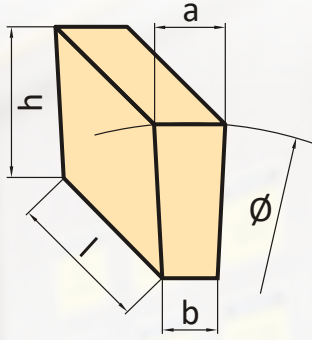
**SOĞUTMA sıcak bölge  
COOLER hot section**

|        |                        |
|--------|------------------------|
| Bricks | SEL B85<br>SEL AN SC15 |
|--------|------------------------|

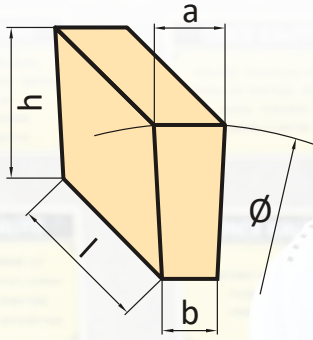
**SOĞUTMA soğuk bölge  
COOLER cool section**

|        |         |
|--------|---------|
| Bricks | SEL C45 |
|--------|---------|



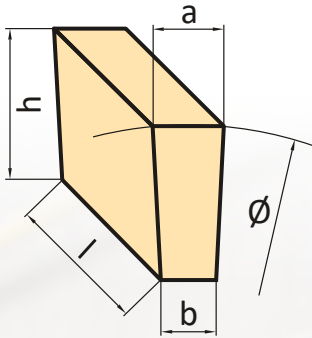


| Poz / Shape | Ölçüler / Dimensions (mm) |      |     |     | Hacim / Volume dm3 | Dış çap / Diameter 2R mm |
|-------------|---------------------------|------|-----|-----|--------------------|--------------------------|
|             | a                         | b    | h   | l   |                    |                          |
| 216         | 103                       | 86   | 160 | 198 | 2,99               | 1.958                    |
| 316         | 103                       | 92   |     |     | 3,09               | 3.025                    |
| 416         | 103                       | 94.5 |     |     | 3,12               | 3.915                    |
| 516         | 103                       | 96.5 |     |     | 3,16               | 5.120                    |
| 616         | 103                       | 97.5 |     |     | 3,17               | 6.051                    |
| 716         | 103                       | 98.3 |     |     | 3,19               | 7.081                    |
| 816         | 103                       | 98.5 |     |     | 3,19               | 7.396                    |
| P 16        | 83                        | 77.5 |     |     | 2,54               |                          |
| P+16        | 93                        | 87.5 |     |     | 2,85               |                          |
| 118         | 103                       | 66   | 180 | 198 | 3,01               | 1.012                    |
| 218         | 103                       | 84   |     |     | 3,33               | 1.971                    |
| 318         | 103                       | 90.5 |     |     | 3,44               | 2.995                    |
| 418         | 103                       | 93.5 |     |     | 3,50               | 3.941                    |
| 518         | 103                       | 95.5 |     |     | 3,53               | 4.992                    |
| 618         | 103                       | 97   |     |     | 3,56               | 6.240                    |
| 718         | 103                       | 97.7 |     |     | 3,57               | 7.064                    |
| P 18        | 83                        | 77   |     |     | 2,85               |                          |
| P+18        | 93                        | 87   |     |     | 3,20               |                          |
| 120         | 103                       | 61   | 200 | 198 | 3,24               | 990                      |
| 220         | 103                       | 82   |     |     | 3,66               | 1.981                    |
| 320         | 103                       | 89   |     |     | 3,80               | 2.971                    |
| 420         | 103                       | 92.5 |     |     | 3,87               | 3.962                    |
| 520         | 103                       | 94.7 |     |     | 3,91               | 5.012                    |
| 620         | 103                       | 96.2 |     |     | 3,94               | 6.118                    |
| 720         | 103                       | 97   |     |     | 3,96               | 6.933                    |
| 820         | 103                       | 97.8 |     |     | 3,97               | 8.000                    |
| P 20        | 83                        | 76.2 |     |     | 3,15               |                          |
| P+20        | 93                        | 86.2 |     |     | 3,54               |                          |

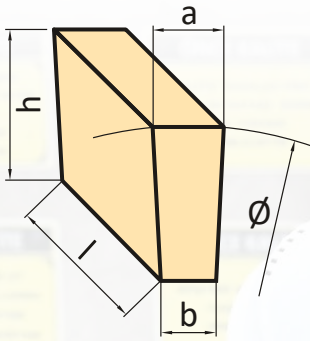


| Poz / Shape | Ölçüler / Dimensions (mm) |      |     |     | Hacim / Volume dm3 | Dış çap / Diameter 2R mm |
|-------------|---------------------------|------|-----|-----|--------------------|--------------------------|
|             | a                         | b    | h   | l   |                    |                          |
| 222         | 103                       | 80   | 220 | 198 | 3,98               | 1.990                    |
| 322         | 103                       | 88   |     |     | 4,16               | 3.051                    |
| 422         | 103                       | 91.5 |     |     | 4,23               | 3.979                    |
| 522         | 103                       | 94   |     |     | 4,29               | 5.084                    |
| 622         | 103                       | 95.5 |     |     | 4,32               | 6.101                    |
| 722         | 103                       | 96.5 |     |     | 4,34               | 7.040                    |
| 822         | 103                       | 97.3 |     |     | 4,36               | 8.028                    |
| P 22        | 83                        | 75.5 |     |     | 3,42               |                          |
| P+22        | 93                        | 85.5 |     |     | 3,88               |                          |
| 225         | 103                       | 77   | 250 | 198 | 4,46               | 2.019                    |
| 325         | 103                       | 85.5 |     |     | 4,67               | 3.000                    |
| 425         | 103                       | 90   |     |     | 4,78               | 4.038                    |
| 525         | 103                       | 92.7 |     |     | 4,84               | 5.097                    |
| 625         | 103                       | 94.5 |     |     | 4,89               | 6.176                    |
| 725         | 103                       | 95.5 |     |     | 4,91               | 7.000                    |
| 825         | 103                       | 96.5 |     |     | 4,94               | 8.077                    |
| P 25        | 83                        | 74.5 |     |     | 3,90               |                          |
| P+25        | 93                        | 85.5 |     |     | 4,39               |                          |
| 230         | 103                       | 71.6 | 300 | 198 | 5.49               | 2.006                    |
| 330         | 103                       | 82   |     |     | 5.49               | 3.000                    |
| 430         | 103                       | 87.3 |     |     | 5.65               | 4.013                    |
| 630         | 103                       | 92.5 |     |     | 5.81               | 6.000                    |
| 830         | 103                       | 95   |     |     | 5.88               | 7.875                    |
| P 30        | 83                        | 72.5 |     |     | 4,61               |                          |
| P+30        | 93                        | 82.5 |     |     | 5,21               |                          |





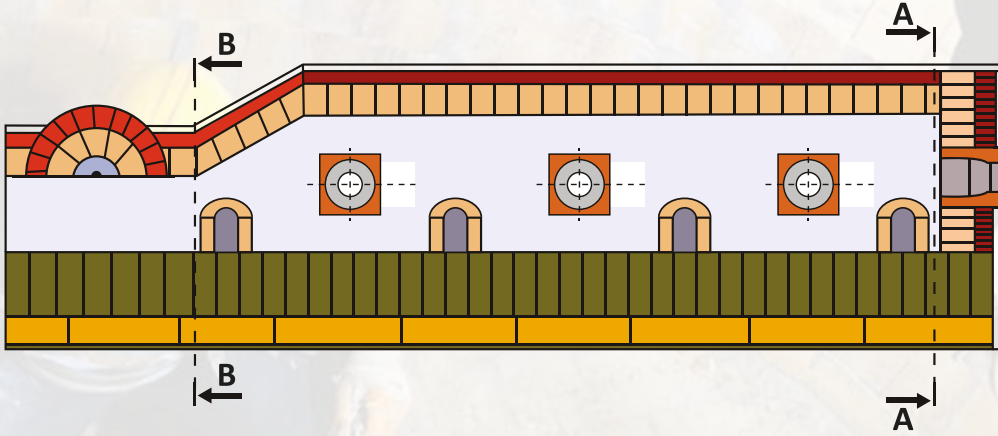
| Poz / Shape | Ölçüler / Dimensions (mm) |      |     |     | Hacim /<br>Volume<br><br>dm3 | Dış çap /<br>Diameter<br>2R<br>mm |
|-------------|---------------------------|------|-----|-----|------------------------------|-----------------------------------|
|             | a                         | b    | h   | l   |                              |                                   |
| 220 L       | 103                       | 82   | 200 | 300 | 5,55                         | 1.981                             |
| 320 L       | 103                       | 89   |     |     | 5,76                         | 2.971                             |
| 420 L       | 103                       | 92.5 |     |     | 5,86                         | 3.962                             |
| 520 L       | 103                       | 94.7 |     |     | 5,97                         | 5.012                             |
| 620 L       | 103                       | 96.2 |     |     | 6,02                         | 6.118                             |
| P 20 L      | 83                        | 76.2 |     |     | 4,77                         |                                   |
| P+20 L      | 93                        | 86.2 |     |     | 5,37                         |                                   |
|             |                           |      |     |     |                              |                                   |
| 222 L       | 103                       | 80   | 220 | 300 | 6,03                         | 1.990                             |
| 322 L       | 103                       | 88   |     |     | 6,30                         | 3.051                             |
| 422 L       | 103                       | 91.5 |     |     | 6,41                         | 3.979                             |
| 622 L       | 103                       | 95.5 |     |     | 6,55                         | 6.101                             |
| P 22 L      | 83                        | 75.5 |     |     | 5,23                         |                                   |
| P+22 L      | 93                        | 85.5 |     |     | 5,89                         |                                   |
|             |                           |      |     |     |                              |                                   |
| 225 L       | 103                       | 77   | 250 | 300 | 6,75                         | 2.000                             |
| 425 L       | 103                       | 90   |     |     | 7,23                         | 4.000                             |
| 625 L       | 103                       | 94.5 |     |     | 7,40                         | 6.118                             |
| 825 L       | 103                       | 96.5 |     |     | 7,48                         | 8.000                             |
| P 25 L      | 83                        | 74.5 |     |     | 5,90                         |                                   |
| P+25 L      | 93                        | 85.5 |     |     | 6,65                         |                                   |



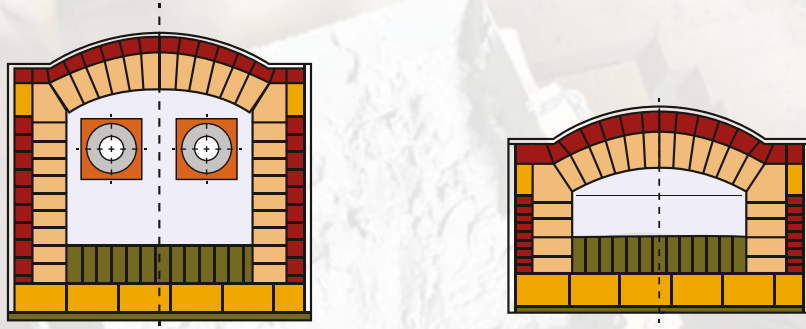
| Poz / Shape | Ölçüler / Dimensions (mm) |      |      |     | Hacim / Volume<br>dm3 | Dış çap / Diameter<br>2R<br>mm |
|-------------|---------------------------|------|------|-----|-----------------------|--------------------------------|
|             | a                         | b    | h    | l   |                       |                                |
| 3K 110      | 103                       | 82   | 100  | 198 | 1,83                  | 990                            |
| 3K 210      | 103                       | 92.5 |      |     | 1,93                  | 1.981                          |
| 3K 310      | 103                       | 96   |      |     | 1,97                  | 2.971                          |
| 3K 410      | 103                       | 97.8 |      |     | 1,99                  | 4.000                          |
| 3K 610      | 103                       | 99.6 |      |     | 2,01                  | 6.118                          |
| P 10        | 71                        | 64   |      |     | 1,34                  |                                |
| P+10        | 78                        | 71   |      |     | 1,48                  |                                |
|             |                           |      |      |     |                       |                                |
| 3K 111      | 103                       | 79.5 | 114  | 198 | 2,06                  | 1.009                          |
| 3K 211      | 103                       | 91   |      |     | 2,20                  | 1.976                          |
| 3K 311      | 103                       | 95   |      |     | 2,24                  | 2.964                          |
| 3K 411      | 103                       | 97   |      |     | 2,26                  | 3.952                          |
| 3K 511      | 103                       | 98   |      |     | 2,27                  | 5.000                          |
| 3K 611      | 103                       | 99   |      |     | 2,28                  | 5.928                          |
| 3K 811      | 103                       | 100  |      |     | 2,30                  | 7.904                          |
| P 11        | 83                        | 79   |      |     | 1,82                  |                                |
| P+11        | 93                        | 89   |      |     | 2,05                  |                                |
|             |                           |      |      |     |                       |                                |
| 3K 115      | 103                       | 72   | 150  | 198 | 2,59                  | 1.006                          |
| 3K 215      | 103                       | 87.5 |      |     | 2,82                  | 2.013                          |
| 3K 315      | 103                       | 92.5 |      |     | 2,90                  | 2.971                          |
| 3K 415      | 103                       | 95.5 |      |     | 2,94                  | 4.160                          |
| 3K 615      | 103                       | 98   |      |     | 2,98                  | 6.240                          |
| 3K 815      | 103                       | 99   |      |     | 3,00                  | 7.800                          |
| P 15        | 83                        | 78   |      |     | 2,39                  |                                |
| P +15       | 93                        | 88   | 2,68 |     |                       |                                |

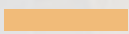


## HADDANE FIRINI / ROLLING FURNACE

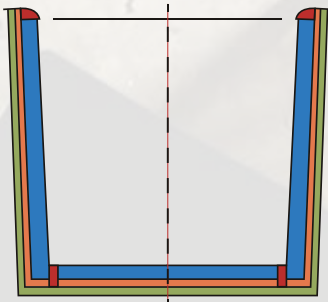


## FIRIN YAN DUVARLARI BOY KESİT / FURNACE SIDEWALLS VERTICAL SECTIONING

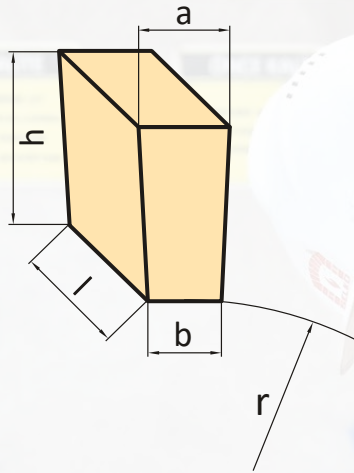


| Bölge / Zone                                                                                                                 | Tuğla / Shapped                          | Harç / Unshapped         |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|--------------------------|
|  Tavan ve Yan Duvar / Roof and Sidewall   | SEL B70<br>SEL B60<br>SEL C45<br>SEL C42 | SELMOR B80<br>SELMOR B60 |
|  Tavan İzolasyon / Roof Insulation        | CERAMIC<br>FIBER BLANKET                 | SELMOR C45               |
|  İzolasyon / Insulating                   | CERAMIC BOARD                            | —                        |
|  İzolasyon / Insulating                   | SELISO 100<br>SELISO 80                  | SELMOR ISOLITE           |
|  Emniyet Astarı / Permanent               | SEL C45<br>SEL C40                       | SELMOR C45               |
|  Taban Aşınma Astarı / Bottom Wear Lining | SEL B85<br>SEL B60                       | SELMOR B80               |

## ÇELİK DÖKÜM POTASI (Alümina Örgü) / STEEL CASTING LADLE (Alumina Lining)



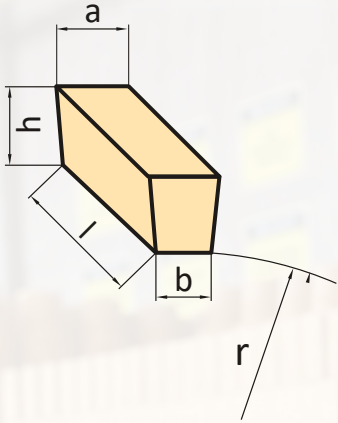
| Bölge / Zone                                                                                                          | Tuğla / Shapped                            | Harç / Unshapped         |
|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------|
|  Emniyet Astarı / Permanent Lining | SEL C45<br>SEL B80<br>SEL B85<br>SEL AN 60 | SELMOR C45<br>SELMOR B80 |

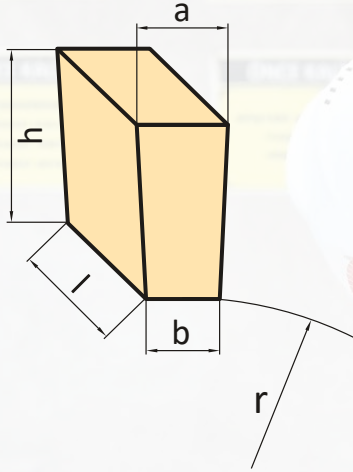


| Poz /<br>Shape | Ölçüler / Dimensions (mm) |     |     |     | Hacim /<br>Volume<br>dm3 | Yarıçap /<br>Radius<br>r<br>mm |
|----------------|---------------------------|-----|-----|-----|--------------------------|--------------------------------|
|                | a                         | b   | h   | l   |                          |                                |
| 1P37           | 143                       | 106 | 90  | 250 | 2,81                     | 263                            |
| 1P26           | 138                       | 112 |     |     | 2,81                     | 395                            |
| 1P24           | 137                       | 113 |     |     | 2,81                     | 431                            |
| 1P18           | 134                       | 116 |     |     | 2,81                     | 590                            |
| 1P8            | 129                       | 121 |     |     | 2,81                     | 1384                           |
| 1P0            | 125                       | 125 |     |     | 2,81                     | -                              |
|                |                           |     |     |     |                          |                                |
| 2P24           | 137                       | 113 | 124 | 250 | 3,88                     | 594                            |
| 2P10           | 130                       | 120 |     |     | 3,88                     | 1513                           |
| 2P0            | 125                       | 125 |     |     | 3,88                     | -                              |
|                |                           |     |     |     |                          |                                |
| 3P20           | 110                       | 90  | 155 | 250 | 3,88                     | 713                            |
| 3P10           | 105                       | 95  |     |     | 3,88                     | 1504                           |
| 3P8            | 104                       | 96  |     |     | 3,88                     | 1899                           |
| 3P0            | 100                       | 100 |     |     | 3,88                     | -                              |
|                |                           |     |     |     |                          |                                |
| 4P22           | 111                       | 89  | 187 | 250 | 4,68                     | 774                            |
| 4P12           | 106                       | 94  |     |     | 4,68                     | 1496                           |
| 4P8            | 104                       | 96  |     |     | 4,68                     | 2291                           |
| 4P0            | 100                       | 100 |     |     | 4,68                     | -                              |
|                |                           |     |     |     |                          |                                |
| 5P36           | 118                       | 82  | 220 | 250 | 5,50                     | 513                            |
| 5P22           | 111                       | 89  |     |     | 5,50                     | 910                            |
| 5P16           | 108                       | 92  |     |     | 5,50                     | 1293                           |
| 5P8            | 104                       | 96  |     |     | 5,50                     | 2695                           |
| 5P0            | 100                       | 100 |     |     | 5,50                     | -                              |
|                |                           |     |     |     |                          |                                |
| 6P50           | 125                       | 75  | 250 | 250 | 6,25                     | 385                            |
| 6P26           | 113                       | 87  |     |     | 6,25                     | 856                            |
| 6P18           | 109                       | 91  |     |     | 6,25                     | 1292                           |
| 6P10           | 105                       | 95  |     |     | 6,25                     | 2425                           |
| 6P0            | 100                       | 100 |     |     | 6,25                     | -                              |
|                |                           |     |     |     |                          |                                |
| 7P18           | 109                       | 91  | 280 | 250 | 7,00                     | 1447                           |
| 7P12           | 106                       | 94  |     |     | 7,00                     | 2240                           |



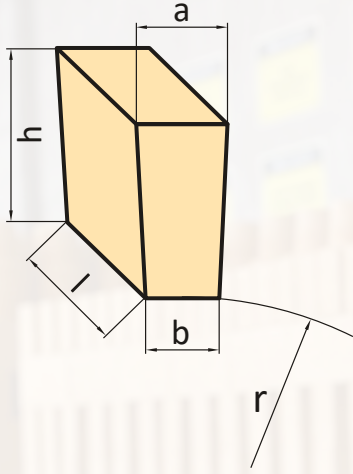
| Poz / Shape | Ölçüler / Dimensions (mm) |    |     |     | Hacim /<br>Volume<br>dm3 | Yarıçap /<br>Radius<br>r<br>mm |
|-------------|---------------------------|----|-----|-----|--------------------------|--------------------------------|
|             | a                         | b  | h   | l   |                          |                                |
| 1H6         | 67                        | 61 | 114 | 230 | 1,68                     | 1197                           |
| 1H10        | 69                        | 59 |     |     | 1,68                     | 695                            |
| 1H16        | 72                        | 56 |     |     | 1,68                     | 413                            |
| 1H24        | 76                        | 52 |     |     | 1,68                     | 257                            |
| 1H38        | 83                        | 45 |     |     | 1,68                     | 141                            |
| 1H50        | 89                        | 39 |     |     | 1,68                     | 93                             |
| 1H6/76      | 79                        | 73 |     |     | 1,99                     | 1425                           |
| 1H10/76     | 81                        | 71 |     |     | 1,99                     | 832                            |
| 1H16/76     | 84                        | 68 |     |     | 1,99                     | 499                            |
| 1H24/76     | 88                        | 64 |     |     | 1,99                     | 314                            |
| 1H38/76     | 95                        | 57 |     |     | 1,99                     | 177                            |
| 1H50/76     | 101                       | 51 |     |     | 1,99                     | 121                            |
| 2H6         | 67                        | 61 | 124 | 250 | 1,98                     | 1302                           |
| 2H10        | 69                        | 59 |     |     | 1,98                     | 756                            |
| 2H16        | 72                        | 56 |     |     | 1,98                     | 450                            |
| 2H24        | 76                        | 52 |     |     | 1,98                     | 279                            |
| 2H38        | 83                        | 45 |     |     | 1,98                     | 153                            |
| 2H50        | 89                        | 39 |     |     | 1,98                     | 102                            |
| 2H6/76      | 79                        | 73 |     |     | 2,36                     | 1550                           |
| 2H10/76     | 81                        | 71 |     |     | 2,36                     | 905                            |
| 2H16/76     | 84                        | 68 |     |     | 2,36                     | 543                            |
| 2H24/76     | 88                        | 64 |     |     | 2,36                     | 341                            |
| 2H38/76     | 95                        | 57 |     |     | 2,36                     | 193                            |
| 2H50/76     | 101                       | 51 |     |     | 2,36                     | 131                            |
| 3H6         | 67                        | 61 | 150 | 300 | 2,88                     | 1.575                          |
| 3H10        | 69                        | 59 |     |     | 2,88                     | 915                            |
| 3H16        | 72                        | 56 |     |     | 2,88                     | 544                            |
| 3H24        | 76                        | 52 |     |     | 2,88                     | 338                            |
| 3H50        | 89                        | 39 |     |     | 2,88                     | 123                            |
| 3H6/76      | 79                        | 73 |     |     | 3,42                     | 1.875                          |
| 3H10/76     | 81                        | 71 |     |     | 3,42                     | 1.095                          |
| 3H16/76     | 84                        | 68 |     |     | 3,42                     | 656                            |
| 3H24/76     | 88                        | 64 |     |     | 3,42                     | 413                            |
| 3H50/76     | 101                       | 51 |     |     | 3,42                     | 159                            |



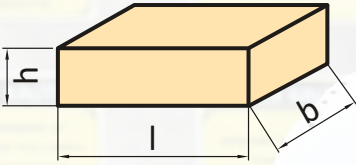


| Poz / Shape | Ölçüler / Dimensions (mm) |    |     |     | Hacim / Volume dm3 | Yarıçap / Radius r mm |
|-------------|---------------------------|----|-----|-----|--------------------|-----------------------|
|             | a                         | b  | h   | l   |                    |                       |
| 1G4         | 66                        | 62 | 230 | 114 | 1,68               | 3680                  |
| 1G6         | 67                        | 61 |     |     | 1,68               | 2415                  |
| 1G10        | 69                        | 59 |     |     | 1,68               | 1403                  |
| 1G16        | 72                        | 56 |     |     | 1,68               | 834                   |
| 1G24        | 76                        | 52 |     |     | 1,68               | 518                   |
| 1G38        | 83                        | 45 |     |     | 1,68               | 284                   |
| 1G50        | 89                        | 39 |     |     | 1,68               | 189                   |
| 1G4/76      | 78                        | 74 |     |     | 1,99               | 4370                  |
| 1G6/76      | 79                        | 73 |     |     | 1,99               | 2875                  |
| 1G10/76     | 81                        | 71 |     |     | 1,99               | 1679                  |
| 1G16/76     | 84                        | 68 |     |     | 1,99               | 1006                  |
| 1G24/76     | 88                        | 64 |     |     | 1,99               | 633                   |
| 1G50/76     | 101                       | 51 |     |     | 1,99               | 244                   |
| 1GG4        | 66                        | 62 | 230 | 230 | 3,39               | 3680                  |
| 1GG6        | 67                        | 61 |     |     | 3,39               | 2415                  |
| 1GG10       | 69                        | 59 |     |     | 3,39               | 1403                  |
| 1GG16       | 72                        | 56 |     |     | 3,39               | 834                   |
| 1GG24       | 76                        | 52 |     |     | 3,39               | 518                   |
| 1GG38       | 83                        | 45 |     |     | 3,39               | 284                   |
| 1GG50       | 89                        | 39 |     |     | 3,39               | 189                   |
| 1GG4/76     | 78                        | 74 |     |     | 4,02               | 4370                  |
| 1GG10/76    | 81                        | 71 |     |     | 4,02               | 1679                  |
| 1GG16/76    | 84                        | 68 |     |     | 4,02               | 1006                  |
| 1GG24/76    | 88                        | 64 |     |     | 4,02               | 633                   |
| 1GG50/76    | 101                       | 51 |     |     | 4,02               | 244                   |
| 1GB4        | 66                        | 62 | 230 | 172 | 2,53               | 3680                  |
| 1GB10       | 69                        | 59 |     |     | 2,53               | 1403                  |
| 1GB16       | 72                        | 56 |     |     | 2,53               | 834                   |
| 1GB24       | 76                        | 52 |     |     | 2,53               | 518                   |
| 1GB50       | 89                        | 39 |     |     | 2,53               | 189                   |
| 1GB4/76     | 78                        | 74 |     |     | 3,01               | 4370                  |
| 1GB10/76    | 81                        | 71 |     |     | 3,01               | 1679                  |
| 1GB16/76    | 84                        | 68 |     |     | 3,01               | 1006                  |
| 1GB24/76    | 88                        | 64 |     |     | 3,01               | 633                   |



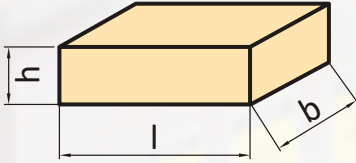


| Poz / Shape | Ölçüler / Dimensions (mm) |    |     |     | Hacim /<br>Volume<br>dm3 | Yarıçap /<br>Radius<br>r<br>mm |
|-------------|---------------------------|----|-----|-----|--------------------------|--------------------------------|
|             | a                         | b  | h   | l   |                          |                                |
| 2G4         | 66                        | 62 | 250 | 124 | 1,98                     | 4000                           |
| 2G6         | 67                        | 61 |     |     | 1,98                     | 2625                           |
| 2G10        | 69                        | 59 |     |     | 1,98                     | 1525                           |
| 2G16        | 72                        | 56 |     |     | 1,98                     | 906                            |
| 2G24        | 76                        | 52 |     |     | 1,98                     | 563                            |
| 2G38        | 83                        | 45 |     |     | 1,98                     | 309                            |
| 2G50        | 89                        | 39 |     |     | 1,98                     | 205                            |
| 2G4/76      | 78                        | 74 |     |     | 2,36                     | 4750                           |
| 2G6/76      | 79                        | 73 |     |     | 2,36                     | 3125                           |
| 2G10/76     | 81                        | 71 |     |     | 2,36                     | 1825                           |
| 2G16/76     | 84                        | 68 |     |     | 2,36                     | 1094                           |
| 2G24/76     | 88                        | 64 |     |     | 2,36                     | 688                            |
| 2G50/76     | 101                       | 51 |     |     | 2,36                     | 265                            |
| 2GG4        | 66                        | 62 | 250 | 250 | 4,00                     | 4000                           |
| 2GG6        | 67                        | 61 |     |     | 4,00                     | 2625                           |
| 2GG10       | 69                        | 59 |     |     | 4,00                     | 1525                           |
| 2GG16       | 72                        | 56 |     |     | 4,00                     | 906                            |
| 2GG24       | 76                        | 52 |     |     | 4,00                     | 563                            |
| 2GG38       | 83                        | 45 |     |     | 4,00                     | 309                            |
| 2GG50       | 89                        | 39 |     |     | 4,00                     | 205                            |
| 2GG4/76     | 78                        | 74 |     |     | 4,75                     | 4750                           |
| 2GG10/76    | 81                        | 71 |     |     | 4,75                     | 1825                           |
| 2GG16/76    | 84                        | 68 |     |     | 4,75                     | 1094                           |
| 2GG24/76    | 88                        | 64 |     |     | 4,75                     | 688                            |
| 2GG50/76    | 101                       | 51 |     |     | 4,75                     | 265                            |
| 2GB4        | 66                        | 62 | 250 | 187 | 2,99                     | 4000                           |
| 2GB10       | 69                        | 59 |     |     | 2,99                     | 1525                           |
| 2GB16       | 72                        | 56 |     |     | 2,99                     | 906                            |
| 2GB24       | 76                        | 52 |     |     | 2,99                     | 563                            |
| 2GB50       | 89                        | 39 |     |     | 2,99                     | 205                            |
| 2GB4/76     | 78                        | 74 |     |     | 3,55                     | 4750                           |
| 2GB10/76    | 81                        | 71 |     |     | 3,55                     | 1825                           |
| 2GB16/76    | 84                        | 68 |     |     | 3,55                     | 1094                           |
| 2GB24/76    | 88                        | 64 |     |     | 3,55                     | 688                            |



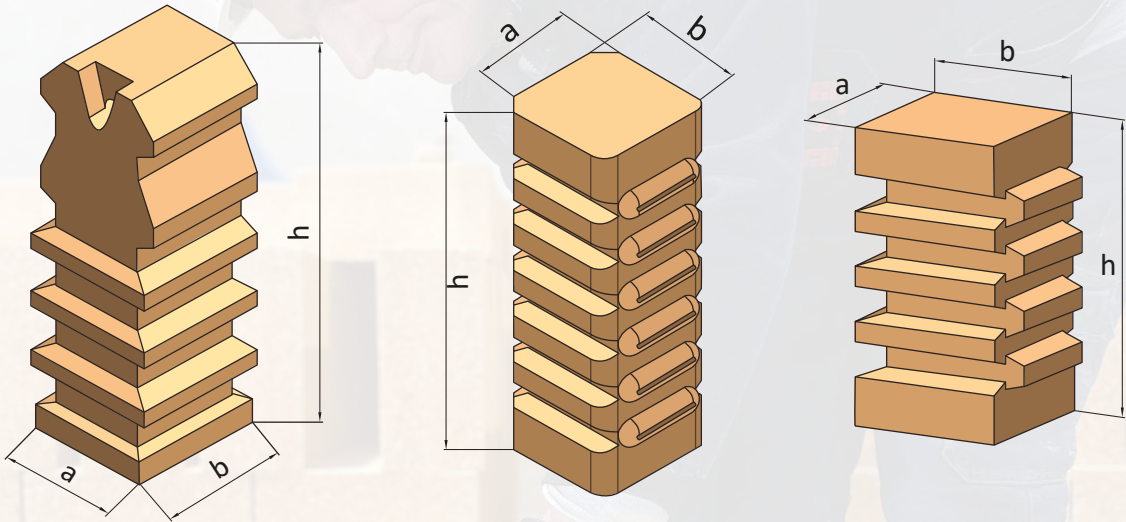
| Poz / Shape | Ölçüler / Dimensions (mm) |     |    | Hacim / Volume |
|-------------|---------------------------|-----|----|----------------|
|             | l                         | b   | h  | dm3            |
| NF1         | 230                       | 114 | 64 | 1,68           |
| NF2         | 250                       | 124 | 64 | 1,98           |
| NF3         | 300                       | 150 | 64 | 2,88           |
| 1-76        | 230                       | 114 | 76 | 1,99           |
| 2-76        | 250                       | 124 | 76 | 2,36           |
| 3-76        | 300                       | 150 | 76 | 3,42           |
|             |                           |     |    |                |
| 1L          | 345                       | 114 | 64 | 2,52           |
| 2L          | 375                       | 124 | 64 | 2,98           |
| 3L          | 450                       | 150 | 64 | 4,32           |
| 1L-76       | 345                       | 114 | 76 | 2,99           |
| 2L-76       | 375                       | 124 | 76 | 3,53           |
| 3L-76       | 450                       | 150 | 76 | 5,13           |
|             |                           |     |    |                |
| 1K          | 172                       | 114 | 64 | 1,25           |
| 2K          | 187                       | 124 | 64 | 1,48           |
| 3K          | 225                       | 150 | 64 | 2,16           |
| 1K-76       | 172                       | 114 | 76 | 1,49           |
| 2K-76       | 187                       | 124 | 76 | 1,76           |
| 3K-76       | 225                       | 150 | 76 | 2,57           |
|             |                           |     |    |                |
| 1D          | 230                       | 230 | 64 | 3,39           |
| 2D          | 250                       | 250 | 64 | 4,00           |
| 3D          | 300                       | 300 | 64 | 5,76           |
| 1D-76       | 230                       | 230 | 76 | 4,02           |
| 2D-76       | 250                       | 250 | 76 | 4,75           |
| 3D-76       | 300                       | 300 | 76 | 6,84           |





| Poz / Shape | Ölçüler / Dimensions (mm) |     |    | Hacim / Volume  |
|-------------|---------------------------|-----|----|-----------------|
|             | l                         | b   | h  | dm <sup>3</sup> |
| 1B          | 230                       | 172 | 64 | 2,53            |
| 2B          | 250                       | 187 | 64 | 2,99            |
| 3B          | 300                       | 225 | 64 | 4,32            |
| 1B-76       | 230                       | 172 | 76 | 3,01            |
| 2B-76       | 250                       | 187 | 76 | 3,55            |
| 3B-76       | 300                       | 225 | 76 | 5,13            |
|             |                           |     |    |                 |
| 1LB         | 345                       | 172 | 64 | 3,80            |
| 2LB         | 375                       | 187 | 64 | 4,49            |
| 3LB         | 450                       | 225 | 64 | 6,48            |
| 1LB-76      | 345                       | 172 | 76 | 4,51            |
| 2LB-76      | 375                       | 187 | 76 | 5,33            |
| 3LB-76      | 450                       | 225 | 76 | 7,70            |
|             |                           |     |    |                 |
| 1BK         | 172                       | 172 | 64 | 1,89            |
| 2BK         | 187                       | 187 | 64 | 2,24            |
| 3BK         | 225                       | 225 | 64 | 3,24            |
| 1BK-76      | 172                       | 172 | 76 | 2,25            |
| 2BK-76      | 187                       | 187 | 76 | 2,66            |
| 3BK-76      | 225                       | 225 | 76 | 3,85            |
|             |                           |     |    |                 |
| 1-32        | 230                       | 114 | 32 | 0,84            |
| 2-32        | 250                       | 124 | 32 | 0,99            |
| 3-32        | 300                       | 150 | 32 | 1,44            |
| 1-38        | 230                       | 114 | 38 | 1,00            |
| 2-38        | 250                       | 124 | 38 | 1,18            |
| 3-38        | 300                       | 150 | 38 | 1,71            |

| Poz / Shape   | Ölçüler / Dimensions (mm) |     |     | Hacim / Volume |
|---------------|---------------------------|-----|-----|----------------|
|               | a                         | b   | h   | dm3            |
| A 300 - L 350 | 120                       | 120 | 350 | 4,00           |
| A 300 - L 300 | 120                       | 120 | 300 | 3,40           |
| A 300 - L 250 | 120                       | 120 | 250 | 2,90           |
| A 300 - L 200 | 120                       | 120 | 200 | 2,30           |
|               |                           |     |     |                |
| 324x114x114   | 114                       | 114 | 325 | 3,75           |
|               |                           |     |     |                |
| 230x114x114   | 114                       | 114 | 230 | 2,90           |









## DEMİR ÇELİK SEKTÖRÜ / IRON AND STEEL INDUSTRY

| No | MÜŞTERİ / FABRİKA<br>CUSTOMER / PLANT | ŞEHİR / CITY      | KULLANIM BÖLGESİ / PLACE OF USE |
|----|---------------------------------------|-------------------|---------------------------------|
| 1  | ERDEMİR A.Ş.                          | KDZ.EREĞLİ        | GENEL / GENERAL                 |
| 2  | KARDEMİR A.Ş.                         | KARABÜK           | GENEL / GENERAL                 |
| 3  | İSDEMİR A.Ş.                          | İSKENDERUN        | GENEL / GENERAL                 |
| 4  | ASİL ÇELİK A.Ş.                       | ORHANGAZİ / BURSA | GENEL / GENERAL                 |
| 5  | TOSYALI HOLDİNG                       | OSMANİYE          | GENEL / GENERAL                 |
| 6  | YAZICI DEMİR ÇELİK                    | İSKENDERUN        | GENEL / GENERAL                 |
| 7  | DİLER DEMİR ÇELİK                     | KOCAELİ           | GENEL / GENERAL                 |
| 8  | ÇOLAKOĞLU METALURJİ                   | KOCAELİ           | GENEL / GENERAL                 |
| 9  | MESCİER DEMİR ÇELİK                   | BARTIN            | GENEL / GENERAL                 |
| 10 | KILIÇLAR DEMİR ÇELİK                  | İZMİR             | GENEL / GENERAL                 |
| 11 | KARDÖKMAK A.Ş.                        | KARABÜK           | GENEL / GENERAL                 |
| 12 | YEŞİLYURT DEMİR ÇELİK                 | SAMSUN            | GENEL / GENERAL                 |
| 13 | DEMORA FABRİKA İMALAT SANAYİ          | KARABÜK           | GENEL / GENERAL                 |
| 14 | MKE AĞIR SİLAH ve ÇELİK FABRİKALARI   | KIRIKKALE         | GENEL / GENERAL                 |
| 15 | KAPTAN DEMİR ÇELİK                    | TEKİRDAĞ          | GENEL / GENERAL                 |
| 16 | HABAŞ                                 | İZMİR             | GENEL / GENERAL                 |
| 17 | UYAR ÇELİK ENDÜSTRİSİ A.Ş.            | KARABÜK           | GENEL / GENERAL                 |
| 18 | AYGÜNSAN DEMİR ÇELİK                  | KARABÜK           | GENEL / GENERAL                 |
| 19 | BOSKAY METAL LTD.ŞTİ.                 | KARABÜK           | GENEL / GENERAL                 |
| 20 | IŞIK ÇELİK                            | KARABÜK           | GENEL / GENERAL                 |
| 21 | İZMİR DEMİR ÇELİK                     | İZMİR             | GENEL / GENERAL                 |
| 22 | KIRIKKALE DEMİR ÇELİK                 | KIRIKKALE         | GENEL / GENERAL                 |
| 23 | R.T.İ MÜHENDİSLİK                     | DENİZLİ           | GENEL / GENERAL                 |

## ÇİMENTO SEKTÖRÜ / CEMENT INDUSTRY

|    |                                                |              |                                                    |
|----|------------------------------------------------|--------------|----------------------------------------------------|
| 1  | VEZİRHAN ÇİMENTO                               | BİLECİK      | DÖNER FIRIN / ROTARY KILN                          |
| 2  | BURSA ÇİMENTO                                  | BURSA        | DÖNER FIRIN / ROTARY KILN                          |
| 3  | BİLİM MAKİNA                                   | TURKMENİSTAN | YENİ YATIRIM / ÖN ISITICI<br>NEW INVEST. /PRE-HEAT |
| 4  | BARTIN ÇİMENTO                                 | BARTIN       | TERSİYER HATTI<br>TERTIARY AIR DUCT                |
| 5  | AŞKALE ÇİMENTO SAN.T.A.Ş. VAN<br>ÇİMENTO       | VAN          | YENİ YATIRIM / ÖN ISITICI<br>NEW INVEST. /PRE-HEAT |
| 6  | AŞKALE ÇİMENTO SAN.T.A.Ş.<br>GÜMÜŞHANE ÇİMENTO | GÜMÜŞHANE    | YENİ YATIRIM / ÖN ISITICI<br>NEW INVEST. /PRE-HEAT |
| 7  | LİMAK ANKARA ÇİMENTO                           | ANKARA       | YENİ YATIRIM / ÖN ISITICI<br>NEW INVEST. /PRE-HEAT |
| 8  | OYAK ADANA ÇİMENTO A.Ş.                        | ADANA        | YENİ YATIRIM / ÖN ISITICI<br>NEW INVEST. /PRE-HEAT |
| 9  | SOMA ÇİMENTO A.Ş.                              | MANİSA       | YENİ YATIRIM / ÖN ISITICI<br>NEW INVEST. /PRE-HEAT |
| 10 | BATIÇİM BATI ANADOLU ÇİMENTO<br>SANAYİİ A.Ş.   | İZMİR        | ÖN ISITICI / PRE-HEAT                              |
| 11 | İTAŞ İNŞ.TAAH.ve TİC.A.Ş.                      | İSTANBUL     | GENEL / GENERAL                                    |



## DEMİR DIŞI VE DİĞER SEKTÖRLER / NON-FERROUS AND OTHER INDUSTRY

| No | MÜŞTERİ / FABRİKA<br>CUSTOMER / PLANT | ŞEHİR / CITY          | KULLANIM BÖLGESİ / PLACE OF USE |
|----|---------------------------------------|-----------------------|---------------------------------|
| 1  | TÜPRAŞ A.Ş.                           | İZMİT                 | GENEL/GENERAL                   |
| 2  | KİMTAŞ KİREÇ SAN.A.Ş. BARTIN FAB.     | BARTIN                | GENEL/GENERAL                   |
| 3  | KİMTAŞ KİREÇ SAN.A.Ş. BERGAMA FAB.    | BERGAMA/İZMİR         | GENEL/GENERAL                   |
| 4  | KİMTAŞ KİREÇ SAN.A.Ş. PINARHİSAR FAB. | PINARHİSAR/KIRKLARELİ | GENEL/GENERAL                   |
| 5  | KARKİREÇ SANAYİ A.Ş.                  | BURSA                 | GENEL/GENERAL                   |
| 6  | KÜRE KİREÇ SAN.A.Ş.                   | KASTAMONU             | GENEL/GENERAL                   |
| 7  | KÜTAHYA ŞEKER FABRİKASI               | KÜTAHYA               | GENEL/GENERAL                   |
| 8  | KONYA ŞEKER FABRİKASI                 | KONYA                 | GENEL/GENERAL                   |
| 9  | HEKİMHAN MADENCİLİK                   | MALATYA               | DÖNER FIRIN / ROTARY KILN       |
| 10 | TURKMEX ÇİNKO                         | İZMİR                 | DÖNER FIRIN / ROTARY KILN       |
| 11 | AKCOAT                                | SAKARYA               | GENEL/GENERAL                   |
| 12 | EÜAŞ TERMİK SANTRALİ                  | MUĞLA                 | GENEL/GENERAL                   |
| 13 | EÜAŞ SEYİTÖMER TERMİK SANTRALİ        | KÜTAHYA               | GENEL/GENERAL                   |
| 14 | SEAŞ TERMİK SANTRALİ                  | SOMA/MANİSA           | GENEL/GENERAL                   |
| 15 | YEAŞ TERMİK SANTRALİ                  | YATAĞAN/MUĞLA         | GENEL/GENERAL                   |
| 16 | EÜAŞ TUNÇBİLEK TERMİK SANTRALİ        | TAVŞANLI/KÜTAHYA      | GENEL/GENERAL                   |
| 17 | ÇATES ÇATALAĞZI TERMİK SANTRALİ       | ZONGULDAK             | GENEL/GENERAL                   |
| 18 | KANGAL TERMİK SANTRALİ                | SEYDİŞEHİR/KONYA      | GENEL/GENERAL                   |
| 19 | ETİ ALÜMİNYUM A.Ş.                    | SEYDİŞEHİR/KONYA      | GENEL/GENERAL                   |
| 20 | IŞIKLAR TUĞLA SAN.A.Ş.                | BARTIN                | GENEL/GENERAL                   |
| 21 | KILIÇOĞLU KİREMİT VE ÇATI SİSTEMLERİ  | ESKİŞEHİR             | GENEL/GENERAL                   |
| 22 | DERYA TOPRAK SAN.A.Ş.                 | TEKİRDAĞ              | GENEL/GENERAL                   |
| 23 | KERAMİK MAKİNA SAN.LTD.ŞTİ.           | KOCAELİ               | GENEL/GENERAL                   |
| 24 | GÜRDAĞ TRADING TUĞLA SAN.             | KKTC                  | GENEL/GENERAL                   |
| 25 | KASTAMONU ENTEGRE AĞAÇ SAN.A.Ş.       | İSTANBUL              | GENEL/GENERAL                   |
| 26 | GENTAŞ A.Ş.                           | BOLU                  | GENEL/GENERAL                   |
| 27 | TEKFEN İNŞAAT VE TESİSAT A.Ş.         | İSTANBUL              | GENEL/GENERAL                   |
| 28 | ORUÇOĞLU YAĞ SAN.A.Ş.                 | AFYON                 | GENEL/GENERAL                   |

IAF

TÜRKAKB

**KALİTE YÖNETİM SİSTEMİ BELGESİ**  
**QUALITY MANAGEMENT SYSTEM CERTIFICATE**  
**EK / APPENDIX**

Belge No / Certificate No: KY-4632-06/09-R15  
Belgeyi Kuruluş Adı, Adresi:  
Name and Address of the Certified Organization:  
  
Belge Kapsamı:  
TS EN ISO 9001:2015  
ATEŞ TUĞLA  
ÜRETİMİ

Belge Tarihi / Date of Certificate: 09.05.2024  
SELKO ATEŞ TUĞLA SANAYİ VE TİC. A.Ş.  
OSB 7. CAD. KURTKÖY -  
BARTIN / TÜRKİYE  
  
Scope of the Certificate:  
TS EN ISO 9001:2015  
PRODUCTION OF  
FIREBRICK

IAF

TÜRKAKB

**KALİTE YÖNETİM SİSTEMİ BELGESİ**  
**QUALITY MANAGEMENT SYSTEM CERTIFICATE**

TÜRK STANDARLARI ENSTİTÜSÜ  
bu belge ile  
SELKO ATEŞ TUĞLA SANAYİ VE TİC. A.Ş.  
OSB 7. CAD. KURTKÖY -  
BARTIN / TÜRKİYE  
  
Kuruluşun TS EN ISO 9001:2015 standardı organ bir KALİTE  
YÖNETİM SİSTEMİNE sahip olduğunu tespit etmiştir.  
  
Belge kapsamı EK'ye verilmiştir  
  
Sistem Belgelendirme Grup Başkanı  
Head of System Certification Group  
  
  
Alper KARA  
  
Türk Standartları Enstitüsü Tis. Akademiye Katmanı TIRKAA Kuruluşları ayrıca edindiği  
Türk Standartları Enstitüsü has been accredited by the Turkish Accreditation Agency TIRKAA.

TÜRK STANDARLARI ENSTİTÜSÜ  
hereby certifies that the organization  
SELKO ATEŞ TUĞLA SANAYİ VE TİC. A.Ş.  
OSB 7. CAD. KURTKÖY -  
BARTIN / TÜRKİYE  
  
has a QUALITY MANAGEMENT SYSTEM which fulfills  
the requirements of the TS EN ISO 9001:2015  
  
Scope of the certificate is given in annex  
  

Belge No / Certificate No: KY-4632-06/09-R15  
Belge Tarihi / Date of Certificate: 09.05.2024  
Kuruluşun Tutarlı / Valid Until: 08.08.2027  
Belgeyi Tekrar / Date of Revision: 09.05.2024  
TS En ISO 9001:2015 Standard Certification Date: 22.08.2006



Building  
trust  
together.

## Certificate

TSE has issued an IQNet recognized certificate that the organization:  
**SELKO ATEŞ TUĞLA SANAYİ VE TİC. A.Ş.**

OSB 7. CAD. KURTKÖY -  
BARTIN / TÜRKİYE

has implemented and maintains a  
**QUALITY MANAGEMENT SYSTEM**

for the following scope

Scope of the certificate is given in annex

which fulfills the requirements of the following standard:

**TS EN ISO 9001:2015**

Issued on: 09-05-2024

First Issued on: 22-08-2006

Expires on: 08-06-2027

Registration Number : TR-KY-4632-06/09-R15

Alex Stoichitoiu  
President of IQNet

Alper KARA  
Head of System Certification Group

This attestation is directly linked to the IQNet Member's original certificate and shall not be used as a stand-alone document.  
IQNet Members:  
AENOR Spain APOR Certification France APCER Portugal CIBQ Italy CQC China CQM China CQS Czech Republic  
Ces Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA FCAV Brazil FONDONORMA Venezuela  
ICONTEC Colombia ICS Bosnia and Herzegovina INTECO Costa Rica IRAM Argentina JQA Japan  
KQF Korea LSQA Uruguay MIRTEC Greece MSST Hungary Nemko AS Norway NSAI Ireland NYCE Mexico PCBC Poland  
Quality Austria Austria SII Israel SIQ Slovenia SIRIM QAS International Malaysia IQS Switzerland SRAC Romania TSE Türkiye VUQS Serbia

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## Certificate

Annex to IQNET Certificate Number :TR-KY-4632-06/09-R15

Name and Address of the certified organization

**SELKO ATEŞ TUĞLA SANAYİ VE TİC. A.Ş.**

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**Scope of the Certificate**

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