



News on Tunnel Kilns for Refractories

Riedhammer refractory tunnel kilns

- Designed for high specific capacity and low energy consumption
- Short firing cycles due to good temperature uniformity
- Highly flexible for different firing conditions
- Available for heating with natural gas, LPG, diesel oil or heavy oil
- Automatic operation
- Optional tunnel drier available, heated by kiln waste heat
- Firing temperatures up to 1850 °C

Riedhammer flat roof kiln advantages

- In kilns with flat roof there is only a small free space under the roof
- The hot flue gases are forced to pass the setting block on their way to the chimney
- This causes a much better heat transfer and a higher efficiency of the firing process
- Much faster firing cycles are possible
- The burner energy is used more efficiently

Standard basic brick tunnel kilns max. temperature 1800 °C

Width (m)	Length (m)	Capacity (t/d)	Spec. Consumption (kcal/kg)	
			1600 °C	1750 °C
1.2 m	60	32	1130	1250
1.6 m	60	42	1080	1200
1.6 m	72	50	970	1150
2.0 m	72	61	900	1050
2.0 m	84	73	850	1000
2.0 m	96	84	820	1000
2.4 m	96	100	770	950

Firing time: 60 hours
 Assumed product density: 3.0 t/m³

Standard high alumina tunnel kilns max. temperature 1550°C

Width (m)	Length (m)	Capacity (t/d)		Spec. Consumption (kcal/kg)	
		1400 °C	1500 °C	1400 °C	1500 °C
1.2 m	48	29	25	1050	1200
1.2 m	60	36	31	920	1100
1.6 m	60	48	40	800	1050
1.6 m	72	58	50	770	1000
2.0 m	72	72	62	750	950
2.0 m	84	84	73	720	900
2.0 m	96	96	83	700	850
2.4 m	96	115	100	680	800

Firing time: 60 hours for 1500°C cycle, 48 hours for 1400°C cycle
 Assumed product density: 2.5 t/m³ for 1500°C, 2.2 t/m³ for 1400°C