

# 1.06.02 Aluminium heating elements for radiation



## >> Description

Backer's aluminium products are designed to obtain optimum heating transmission by thermal radiation. The products are also designed to guarantee noiseless operation, perfect running and optimal efficiency. To further improve the thermal radiation the heating element can be designed with surface enlargement and different kinds of surface coating.

## >> Technical specification

Material	Aluminium
Design	One or two end connection I-profile Straight profile Concave profile Surface enlargement as alternative Diff. kinds of surface coating
Voltage	Max 480 V
Surface load	Depending on element profile. E.g. 6 W/cm in free air for I-100.
Surface coating	Anodized elements (max. temp. 285°C) Painted elements (max. temp. 350°C)
Safety	The elements meet requirements acc. to EN 60335-1
Options	Protection plastic on surface. Fixing devices. Connection cables.
Emissivity	~0,85



*Radiating element*

Model	Element Ø (mm)	W/length cm	Min. length (mm)	Max length (mm)	Max Temperature
P 2000	8,5	20	350	1270	350°C
I-100	8,5	15	250	1510	350°C
I-80	8,5	15	250	1510	350°C
Concave	8,5		300	1500	350°C
Straight	8,5		300	1500	350°C

## >> Benefits

- Low tool cost by new production
- Low weight
- High degree of corrosion-resistance
- Effective conduction of heat
- Noiseless
- Long duration product
- Directed radiation from one side
- No odour during heat up

## >> Fields of application

- Radiating radiators
- Inner ceiling radiant heaters
- Frost guards



*Inner ceiling radiant heater*

Aluminium elements

2010.06