



RADIANT CEILING PROFILES. SO LIGHTWEIGHT AND COMFORTABLE.

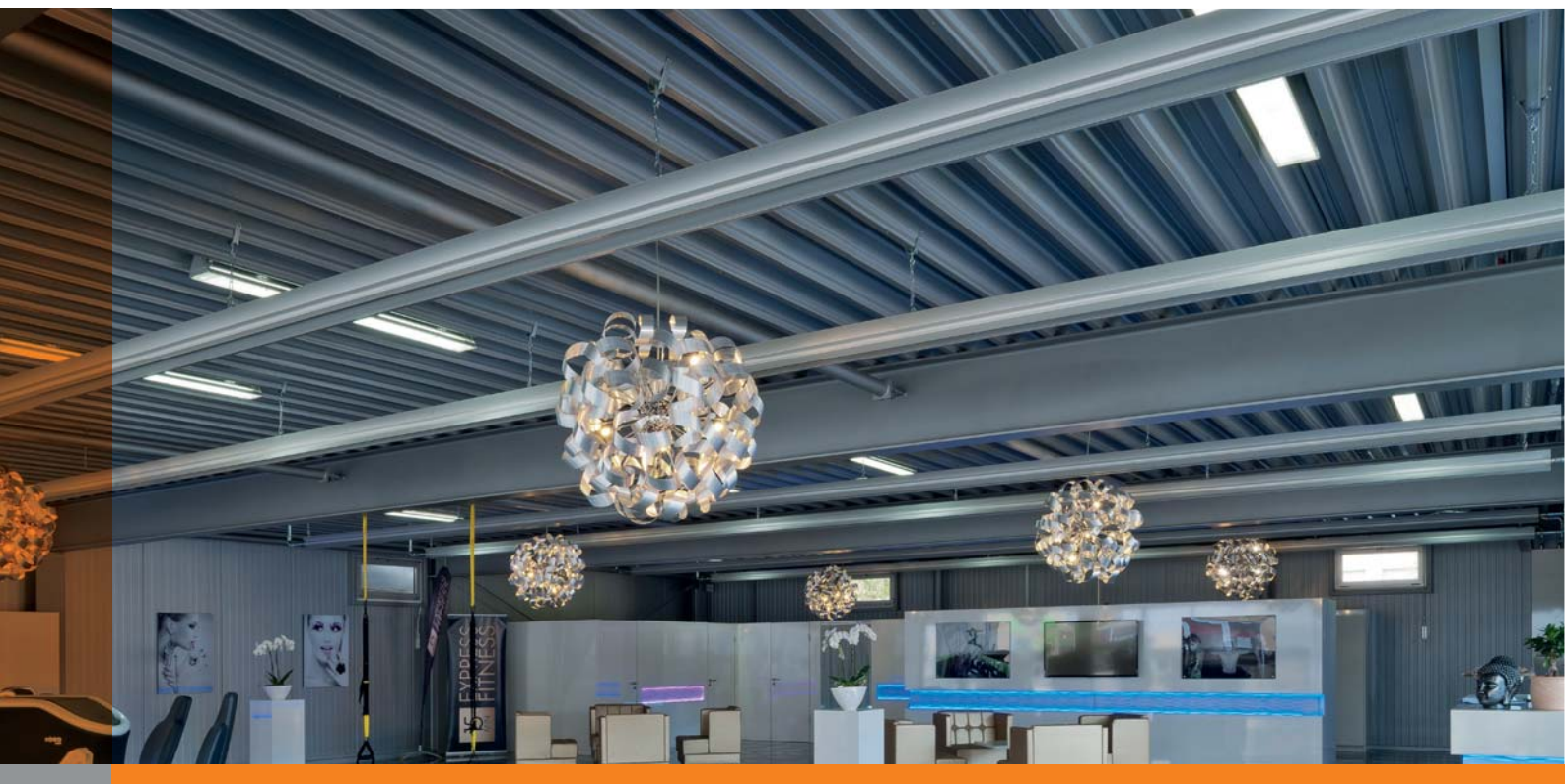


HOW TO PROVIDE QUALITY RIGHT TO THE POINT?

More than 60 years ago, the founders of Arbonia had one aim in mind: Providing fellow humans with "warming" solutions. But today our aim is much broader. Arbonia is a brand for heat requirements and fulfils highest expectations in public and business buildings. But we still adhere to the high standards of our founders: Customer support and solutions that are right to the point. What does this precisely mean? That's simple: We comply with supply and date arrangements in every detail. Starting with high-quality packaging as important component of the Arbonia standard of quality. The processing quality and the long

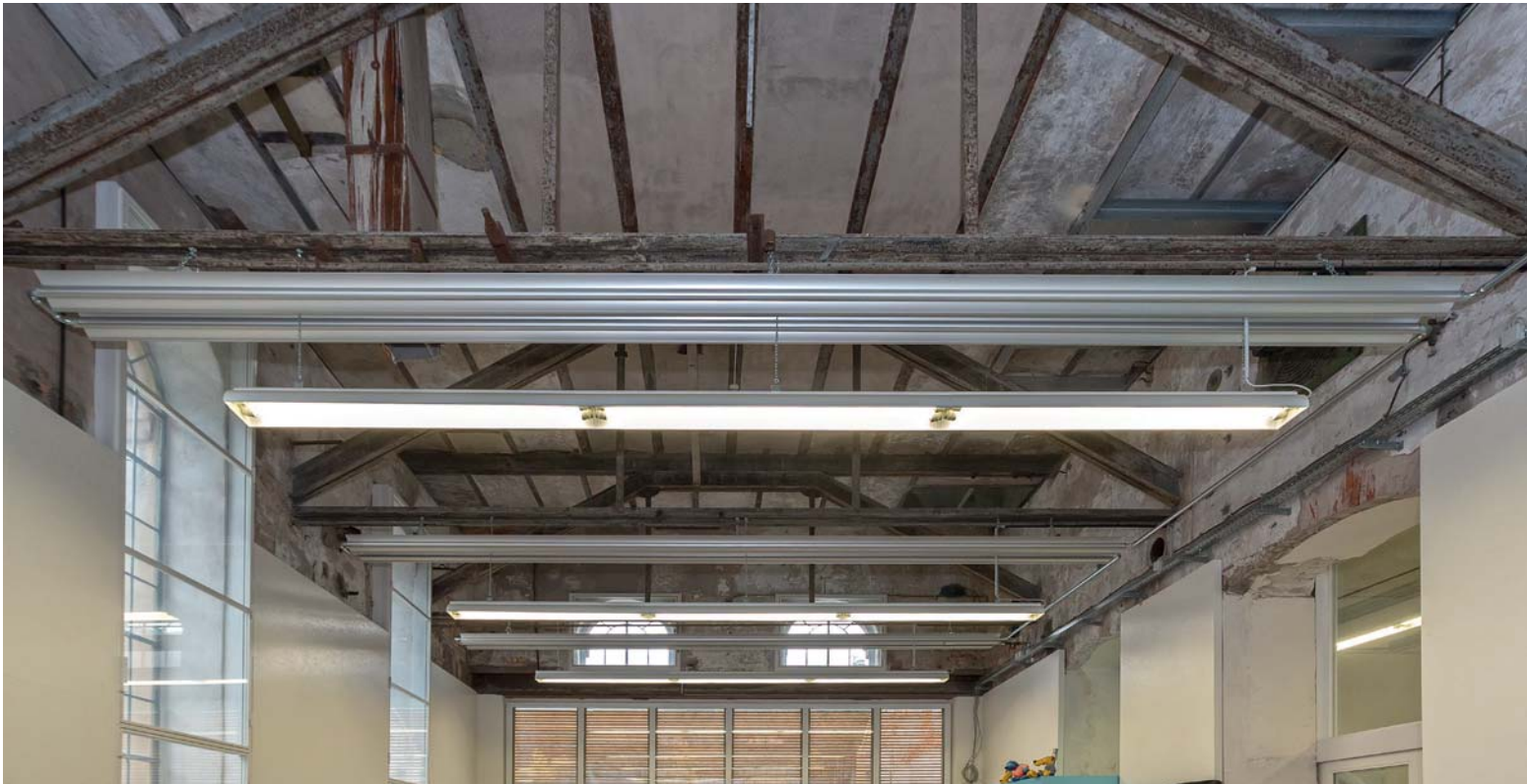
service life of our products have been convincing our customers for years now and are conform with the high requirements of currently valid regulations and standards. Individual customer service and highest possible flexibility of form and colour design are for us a matter of course. Our design expertise shows this, being acknowledged constantly by many awards. We at Arbonia develop all of this consistently and with passion – to provide you with precisely the room temperature solution that you need.

right to the point 



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Flexible and safe:
The main application range
of our radiant ceiling profiles



Ceiling

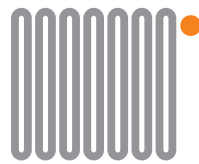
ABSOLUTELY UNIQUE: ARBONIA QUALITY.

When manufacturing our products, we have one thing especially in mind: consistent quality assurance and product optimisation. Using state-of-the-art manufacturing plants and our long-term experience, we can consistently provide high product quality. Thus we are pioneers in this product environment.



Production / Manufacturing

- Maximum individuality
- State-of-the-art manufacturing plants
- High manufacturing capacity
- High energy efficiency



Products

- Reliability and long service life
- Highest surface quality
- Appealing visual effect
- Innovative solutions
- Customer-specific versions



Packaging and transport

- Optimum protection for corners, surfaces and connections
- Comfortable handling
- Transport safety
- Sustainable and environmentally safe disposal



Installation

- Easy and fast
- Systems tuned to the product
- Flexible fixing options
- High safety

Acknowledged quality

Our company and our products are tested and certified by independent institutions. These are for example:



- Uncompromising quality assurance system in accordance with DIN EN ISO 9001:2008
- Responsible environmental management in accordance with DIN EN ISO 14001:2004
- Energy management system in accordance with DIN EN ISO 50001:2011

COMPREHENSIVE AND COMPETENT: ARBONIA SERVICE.

We advice and support you in all your needs, from planning and ordering to realisation and implementation. Our highly ambitious employees offer you comprehensive service that fulfils highest demands.



Consultation and logistics

From indoor climate planning to implementation: You can count on the competence of our technical advisors – as well as on our precise logistics. For us delivery reliability means that we deliver precisely at the agreed place and time.



Awards

Arbonia convinces: Our high design expertise and innovation show this, being regularly acknowledged with highly popular awards in the sector. We are pleased with this, of course, and for you this is a good orientation.



Warranty and safety

Committed to quality: We are consistently committed to the premium quality of our products.



Online Service

Comfortable service for you: our EDP solutions make life a bit easier for you. Visit us online on our website www.arbonia.com



Arbonia radiant ceiling profiles

SO LIGHTWEIGHT AND COMFORTABLE: RADIANT CEILING PROFILES.

A new temperature conditioning system for ceilings: Optically appealing and lightweight aluminium profiles provide utmost cosiness thanks to even temperature distribution. Thanks to natural radiation heat or passive cooling operation, the room climate is especially comfortable.





Benefits

- Up to 50% less installation effort
- Super lightweight - approx. 60% less weight as radiant ceiling panels
- Compact design - no covering of safety-relevant ceiling systems, e.g. sprinkler system
- Radiated portion of up to 60 %
- Module length up to 12m
- Suited for room heights up to 20 m
- 360° radial radiation
- For heating and cooling operation in 2 versions in 3 different sizes
- High heat output following EN14037
- Very low heating-up and cooling-down time
- No additional electricity costs for drive power
- Free selection of energy source

SO LIGHTWEIGHT AND COMFORTABLE: APPLICATIONS

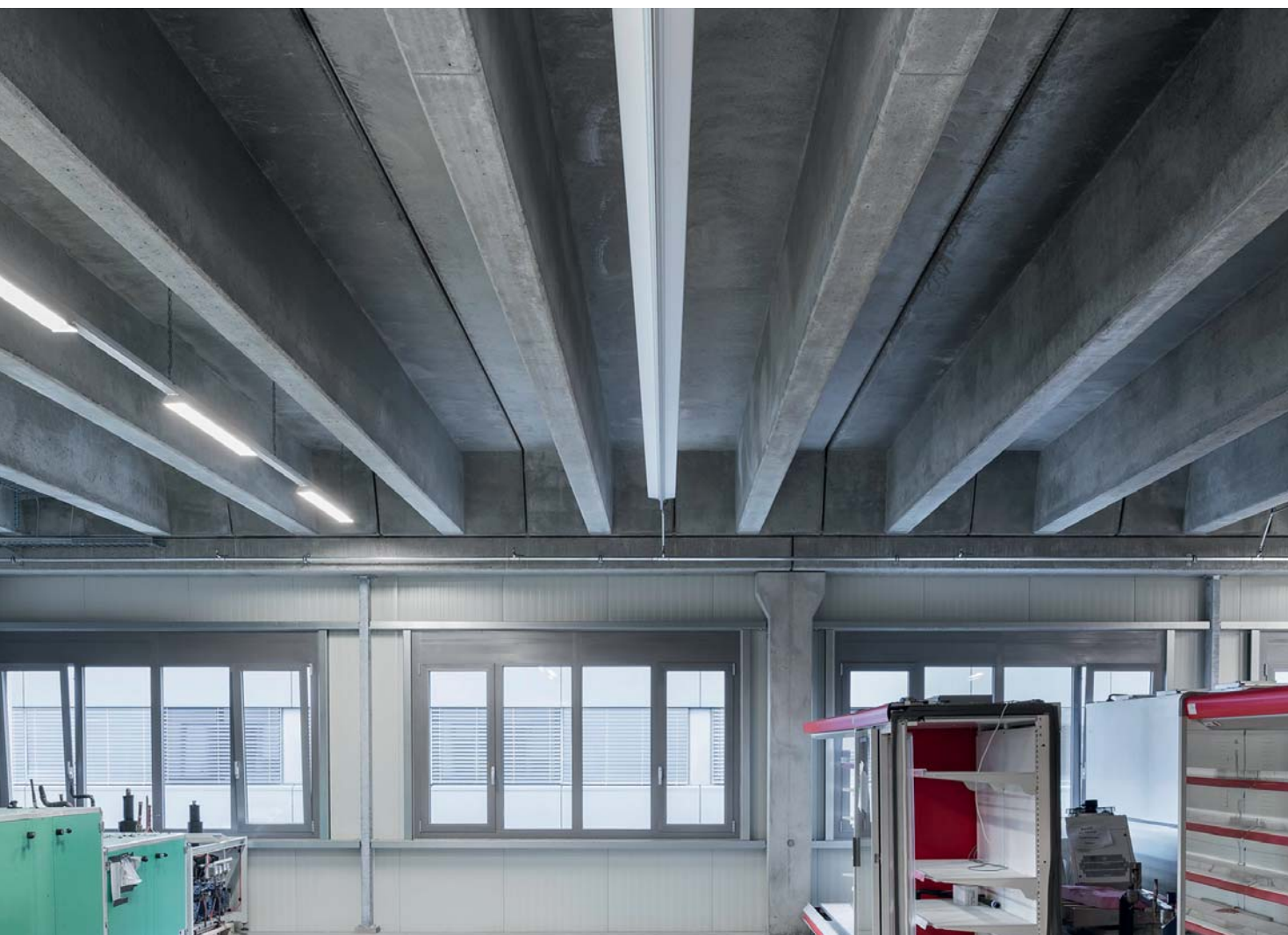
Applications

- Workshops
- Production halls
- Sports centres
- Sales halls
- Offices
- Apartments / lofts
- Hotels
- Restaurants
- Lobbies



Special applications

- Interiors and outdoor areas
- Damp rooms
- The radiant ceiling profiles are, even in stables and livestock holding businesses, thanks to their ammonia resistance - acknowledged by the DLG (Deutsche Landwirtschafts-Gesellschaft – German Agricultural Society) e.V.



SO LIGHTWEIGHT AND COMFORTABLE: APPLICATIONS





RADIANT CEILING PROFILES

MODEL DESA

The cost-efficient version, especially efficient and powerful.
Now also with integrated hook for suspension.

Technical data

- 3 types (80 x 80 mm, 130 x 130 mm and 170 x 170 mm)
- Length 1000 mm to 12000 mm
- Gradation 500 mm



RADIANT CEILING PROFILES

MODEL DESB

The esthetic, highly sophisticated version.
With integrated hook for suspension and integrated ball deflection rail.

Winner of the Red Dot Design Award 2013.



Technical data

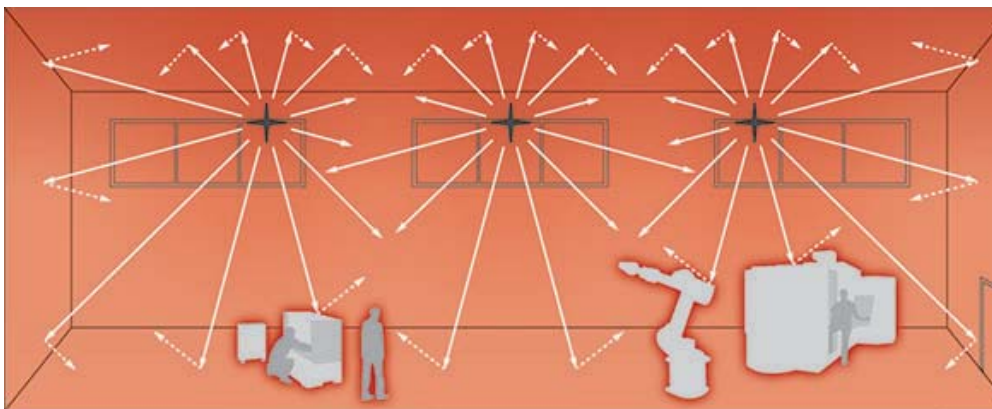
- 3 types (120 x 225 mm, 180 x 180 mm and 225 x 225 mm)
- Length 1000 mm to 12000 mm
- Gradation 500 mm



THE SUN'S RADIATION PRINCIPLE. ENERGY-EFFICIENT AND COMFORTABLE.

Radiant ceiling profiles heat and cool following the natural principle of the sun – with a radiated portion of up to 60 %. This effect provides a very comfortable and cozy climate. If you are in the range where radiation is exchanged with the heat source, you can feel the direct heating or cooling. But there are never unpleasant draughts. Thanks to radiation heat, the felt temperature in heating operation is approximately 2-3 Kelvin higher than the actual room temperature.

In cooling operation, it is about 2-3 Kelvin lower. Consequently energy consumption decreases. Compared to air heating, an energy savings potential of up to 30 %, however with the same felt temperature, can be achieved. The operation of radiant ceiling profiles is silent, without whirling up dust. This means, on the one hand, less cleaning costs and, on the other hand, a healthy room climate as well as protection from possible dust explosions in hazardous areas.



- Even heat intensity at any point in the room
- No draughts
- No dust dispersal
- Maximum comfort

MODEL OVERVIEW

Model DESA

	DESA1	DESA2	DESA3
Performance class:	Type 750	Type 600	Type 300
Width in mm:	170 x 170	130 x 130	80 x 80
Connection dimensions:	2"	5/4"	3/4"
Empty weight kg/m:	5.6	3.8	1.8
Operating weight kg/m:	8.2	5.0	2.3
Nominal heat output in W/m: at $\Delta T=55K^*$	396	321	211
Cooling capacity in W/m: at $\Delta T=10K^{**}$	59	53	44
Material:	Aluminium alloy		
Colours:	Standard: Anodised in natural colour aluminium (further RAL colours upon request)		
Length in m:	1 to 12		
Connection type:	pressing, screwing		

Model DESB

	DESB1	DESB2	DESB3
Performance class:	Type 750	Type 600	Type 600 / 2-tube
Width in mm:	225 x 225	180 x 180	225 x 120
Connection dimensions:	2"	5/4"	1/2"
Empty weight kg/m:	6.6	5.6	5.1
Operating weight kg/m:	9.1	6.8	5.6
Nominal heat output in W/m: at $\Delta T=55K^*$	365	333	319
Cooling capacity in W/m: at $\Delta T=10K^{**}$	54	47	44
Material:	Aluminium alloy		
Colours:	Standard: Anodised in natural colour aluminium (further RAL colours upon request)		
Length in m:	1 to 12		
Connection type:	pressing, screwing		

* following EN14037 (flow: 80°C; return: 70°C; room temperature: 20°C)

** following EN 14240 (flow: 16°C; return: 18°C; room temperature: 27°C)



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Technical specifications subject to change
Because of limitations in the printing process, the illustrated colours are not binding.