




A leading brand of  AFG

# RADIANT CEILING PANELS. INTEGRATED COMFORT.



Heating. Cooling. Ventilating.

right to the point 

# 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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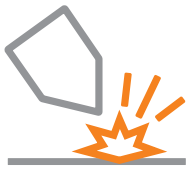
Flexible and safe:  
The main application range  
of radiant ceiling panel units



Ceiling

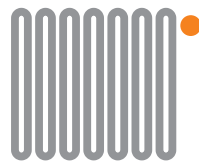
# ABSOLUTELY UNIQUE: ARBONIA QUALITY.

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](http://www.arbonia.com)



## INTEGRATED: ARBONIA RADIANT CEILING PANELS.

Radiant ceiling panels from Arbonia are used where energy-efficient cooling and heating of common rooms is required. The radiant ceiling panels blend in well with any type of architecture and thus permit unimpaired use of space.

### Benefits

- Energy savings
- Maintenance-free and energy-independent
- Hygienic heating and cooling system
- Silent
- Fits to common ceiling systems
- Sound absorption



### Applications

- Offices and administration rooms
- Kindergartens
- Schools
- Sports facilities
- Showrooms and salesrooms
- Car showrooms
- Shopping centres
- Hospitals, retirement and nursing homes
- Gastronomy
- Hotels
- Medical practices
- Meeting places, youth centres

## COMFORTABLE: ARBONIA RADIANT CEILING PANELS.

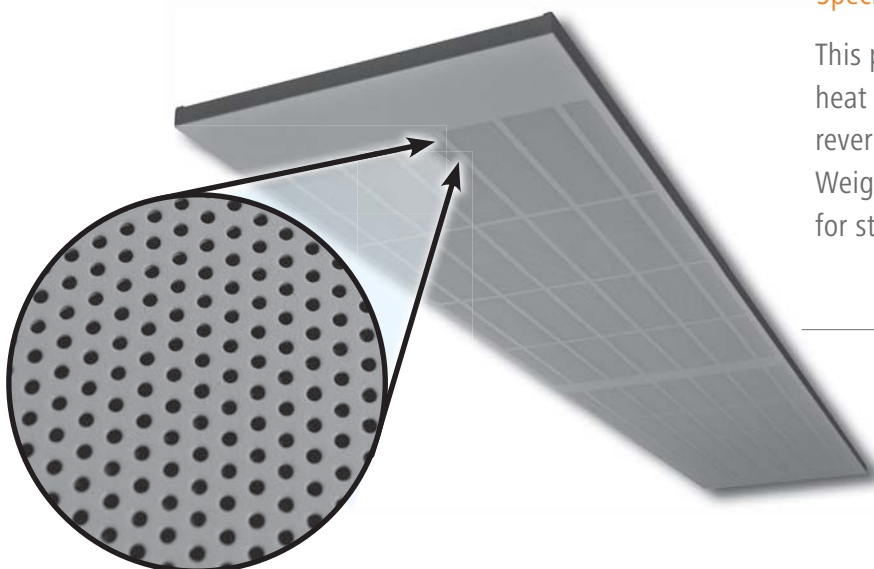
Thanks to radiation exchange and natural convection, the Arbonia radiant ceiling panels provide high comfort and even temperatures at any time of year. They are a temperature condition system without dust turbulence, thus preventing carryover of germs, dust or odours.



Operating principle heating



Operating principle cooling



### Special version with perforated plate:

This plate is delivered with a special heat insulation that absorbs noise and reverberation for better room acoustics. Weight and dimensions are the same as for standard radiant ceiling panels.

## INSTALLATION IN SUSPENDED CEILINGS: RADIANT CEILING PANEL DEC1A.

Arbonia radiant ceiling panels are available in four sizes (1.20 m to 3.00 m), this makes installation in any type of suspended ceiling systems possible. Thanks to their visible, consistently smooth side they can be combined with any common ceiling plates. With their modular construction and arrangement of water connections, an installation next to ceiling lights is possible without problem in compliance with the guidelines for artificial lighting.



### Technical data

- Lengths: 1195, 1795, 2395 and 2995 mm
- Width: 595 mm



## FOR SIGHT AND INSTALLATION: RADIANT CEILING PANEL DEC1B.

Arbonia radiant ceiling panels are available in four sizes (1.20 m to 3.00 m), this makes installation in any type of suspended ceiling systems possible. Thanks to their visible, consistently smooth side they can be combined with any common ceiling plates. With their modular construction and arrangement of water connections, an installation next to ceiling lights is possible without problem in compliance with the guidelines for artificial lighting.



### Technical data

- Lengths: 1234, 1858, 2482 and 3106 mm
- Width: 610 mm



## FOR SUSPENDED CEILING IN PLASTERBOARD: RADIANT CEILING PANEL DEC1C.

Arbonia radiant ceiling panels are available in four sizes (1.20 m to 3.00 m), this makes installation in any type of suspended ceiling systems possible. Thanks to their visible, consistently smooth side they can be combined with any common ceiling plates. With their modular construction and arrangement of water connections, an installation next to ceiling lights is possible without problem in compliance with the guidelines for artificial lighting.



### Technical data

- Lengths: 1195, 1795, 2395 and 2995 mm
- Width: 595 mm

# MODEL OVERVIEW RADIANT CEILING PANEL DEC.

Technical data radiant ceiling panel DEC.

## Model DEC1A (installation in suspended ceilings)

Model	Model DEC1A			
Length in mm:	1195	1795	2395	2995
Cooling capacity EN14037-4* with insulation in watts at $\Delta T$ 9K:	55	83	110	138
Cooling capacity EN14037-4* without insulation in watts at $\Delta T$ 9K:	74	111	148	186
Heat output in watts at $\Delta T_m$ 55K:	396	596	797	997
Mass in kg:	13.8	20.7	27.6	34.5
Water content in l:	1.3	2.0	2.8	3.5

## Model DEC1B (sight and installation)

Model	Model DEC1B			
Length in mm:	1234	1858	2482	3106
Cooling capacity EN14037-4* with insulation in watts at $\Delta T$ 9K:	55	83	110	138
Cooling capacity EN14037-4* without insulation in watts at $\Delta T$ 9K:	74	111	148	186
Heat output in watts at $\Delta T_m$ 55K:	396	596	797	997
Mass in kg:	13.8	20.7	27.6	34.5
Water content in l:	1.3	2.0	2.8	3.5

## Model DEC1C (for suspended ceilings in plasterboard)

Model	Model DEC1C			
Length in mm:	1195	1795	2395	2995
Cooling capacity EN14037-4* with insulation in watts at $\Delta T$ 9K:	55	83	110	138
Cooling capacity EN14037-4* without insulation in watts at $\Delta T$ 9K:	74	111	148	186
Heat output in watts at $\Delta T_m$ 55K:	396	596	797	997
Mass in kg:	14.9	22.3	29.7	37.1
Water content in l:	1.3	2.0	2.8	3.5

$\Delta T_m$ : Temperature difference between medium heating temperature and room temperature

\* EN 14037-4: VL 80°C, RL 70°C, RT 20°C / Material: steel



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Address:  
Arbonia AG  
Amriswilerstrasse 50  
CH - 9320 Arbon

Phone +41 (0) 71 447 47 47  
Fax +41 (0) 71 447 48 47

[info@arbonia.ch](mailto:info@arbonia.ch)  
[www.arbonia.com](http://www.arbonia.com)

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

