

itula

ituGraf®



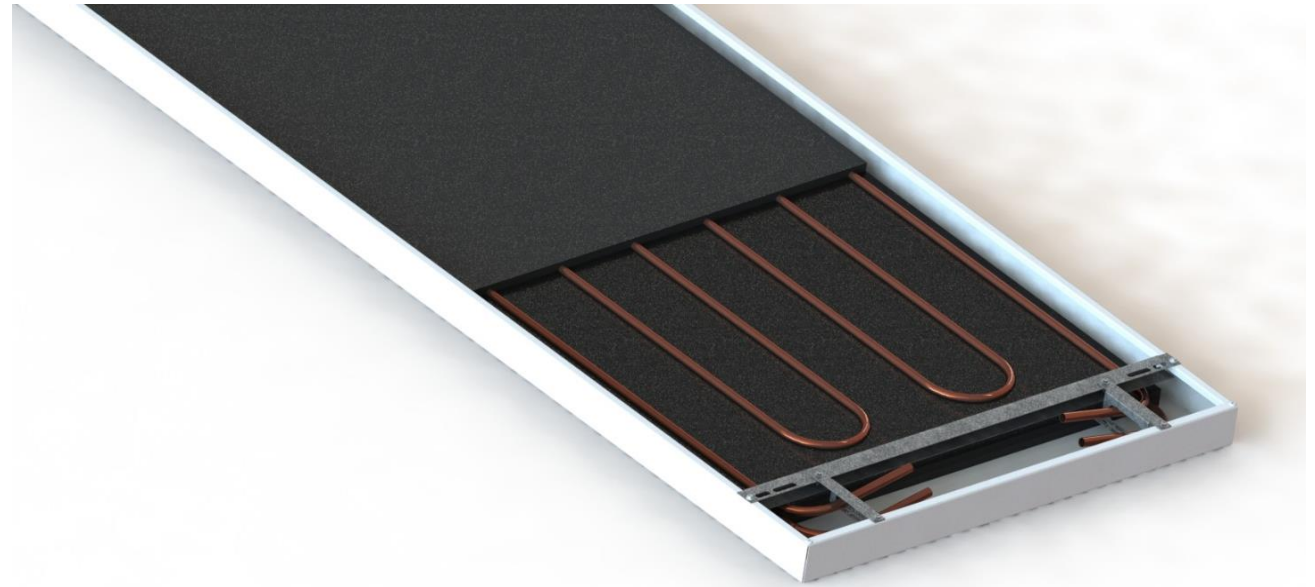
Radiant Cooling and Heating Panel

- 2nd Generation Developments
- Graphite boosted heat transfer
- Made in Finland with highest quality standards



Construction

- Steel cassette
- Graphite layers
- Copper meander
- Hanging bars
- Emission free



Benefits

- Reduces CO2 emissions – saves energy
- Heating and Cooling with the same system
- Most efficient panel on the market
- Maintenance free long life time
- Easy to integrate with different ceiling constructions and house techs.



Standard Panel Models

- Width 600 - 1200 mm,
- Lengths 600 - 3600 mm
- One and two-layer panel innovations
- Standard white RAL9016, all RAL-colors available
- Standard surface smooth
- Micro perforated surface for better acoustics available
- Taylor made dimensions



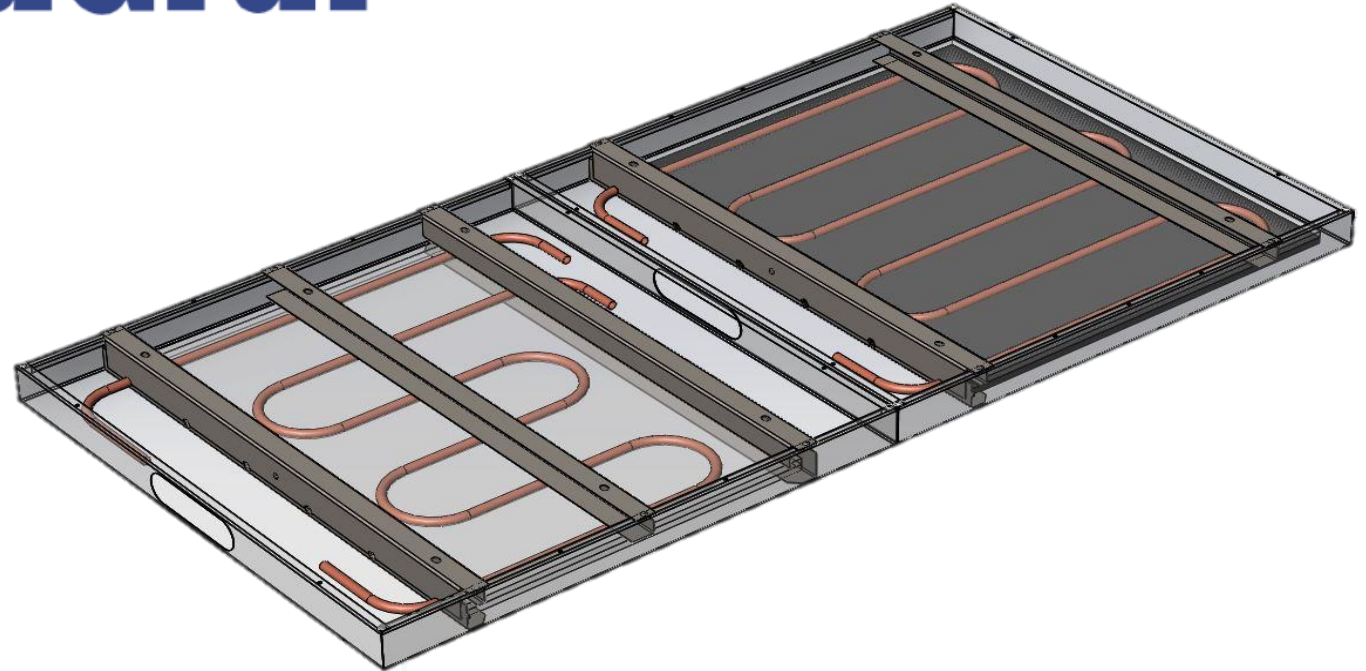
Integrated Ceiling Models

- Seamless joints with suspended ceilings
- For T-24/T-15 panel-systems
- Compatible with St.Gobain's Ecophon Focus/Master and with Rockfon product families
- Adjustable and tailor made system



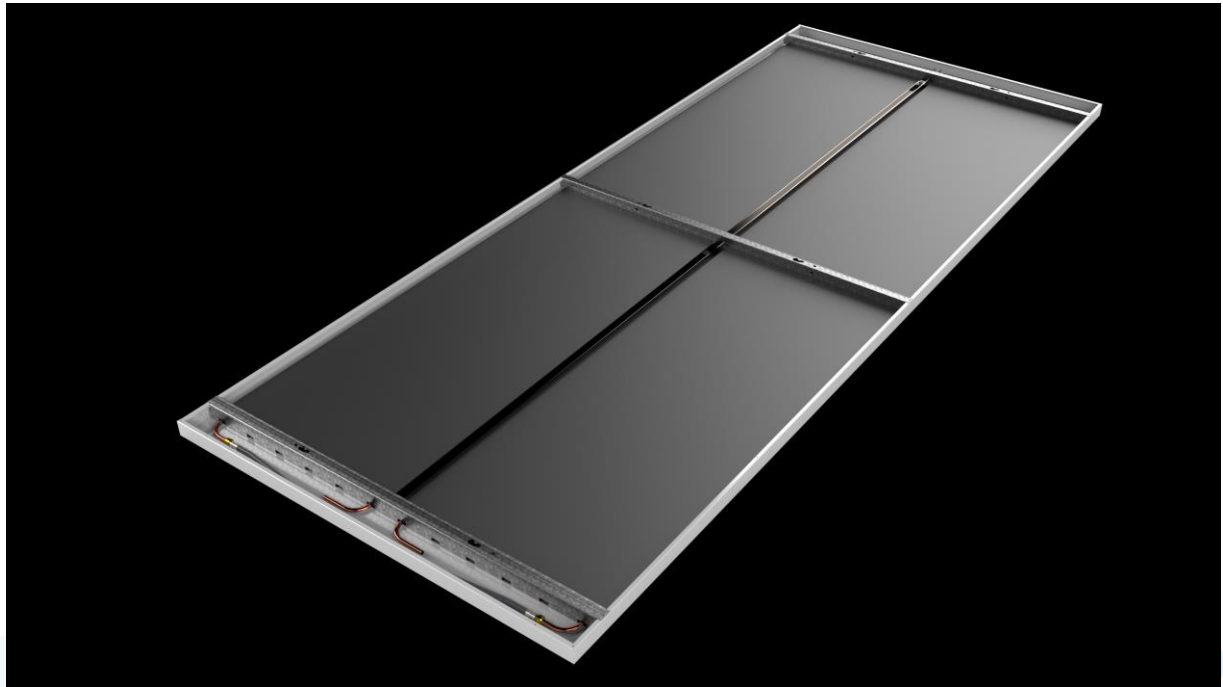
Special Models

- Surface fixing
- Serial connections
- 2-layer special models
- 90 degree connections



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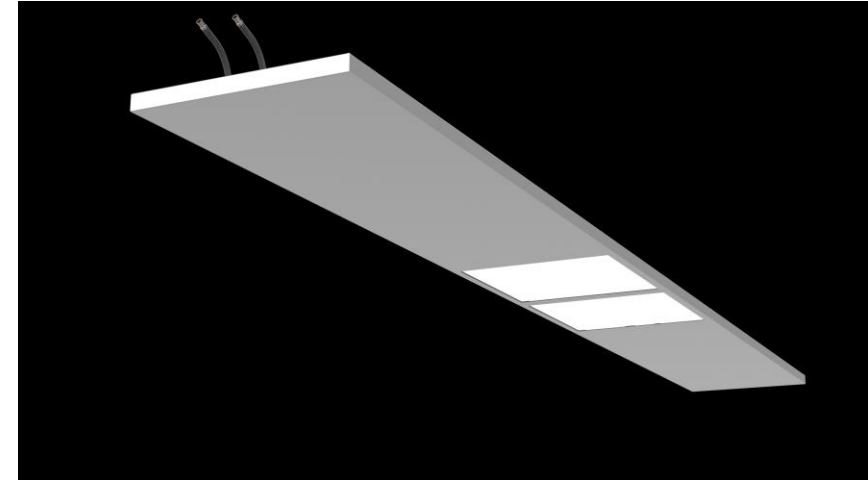




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ItuGraf Integrated

- Wide base for HVAC-integrations
- LED-lights and controls
- Sprinkler- and fire-alarm systems
- Electric cabling support and outputs
- Data communications / WLAN base
- Activity sensors
- Localization / occupation support



Installation

- Wires with fine height adjustment
- Surface fixing
- Flexible hoses for hydraulic connections
- Constant flow balancing valves
- Fast and easy installations



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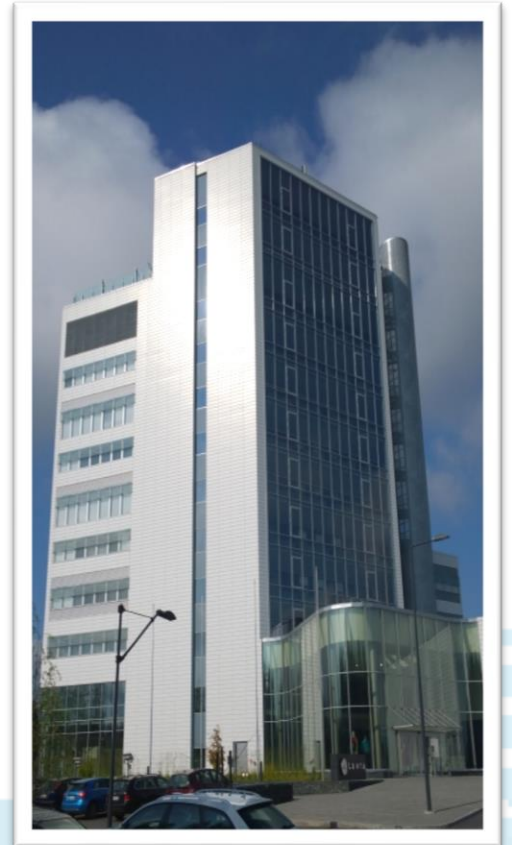
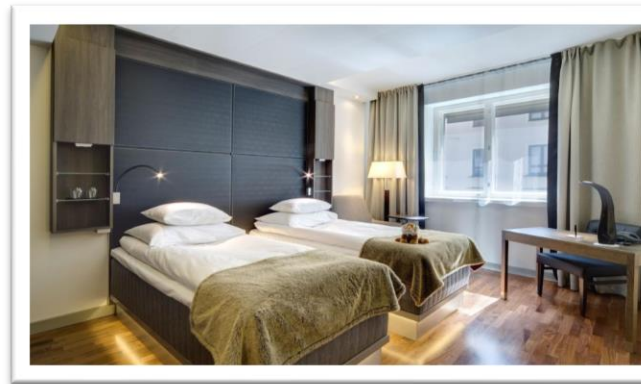
Installation

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Applications areas

- Commercial buildings
- Offices
- Apartments and one family houses
- Hotels
- Hospitals
- Schools
- Daily care homes
- Kindergardens
- Modular buildings



References

Project: Ruokolahti School
City: Ruokolahti, Finland
Time: 2018
Type: New
Size: 6000 m²
Description: Heating



References

Project:	Apartments
City:	Nurmijärvi, Porvoo, etc...
Year:	2015-2018
Type:	Heating and cooling
Size:	1000 apartments
Description:	Living rooms, wet rooms and toilets, saunas with ItuGraf



References

Project:	Apartments
City:	Porvoo
Year:	2018 / 2019
Type:	New building
Size:	48 / 96 apartments
Description:	Heating and comfort cooling with ItuGraf



References

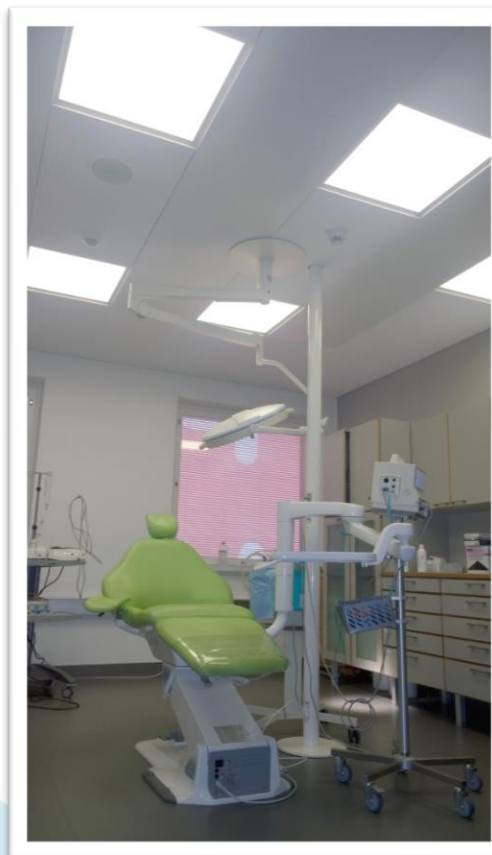
Project:	Apartments
City:	Nurmijärvi, Porvoo
Year:	2015-2018
Type:	Heating
Size:	400 apartments
Description:	Living rooms, wet rooms and toilets, saunas with ItuGraf





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Pohjola Hospitals



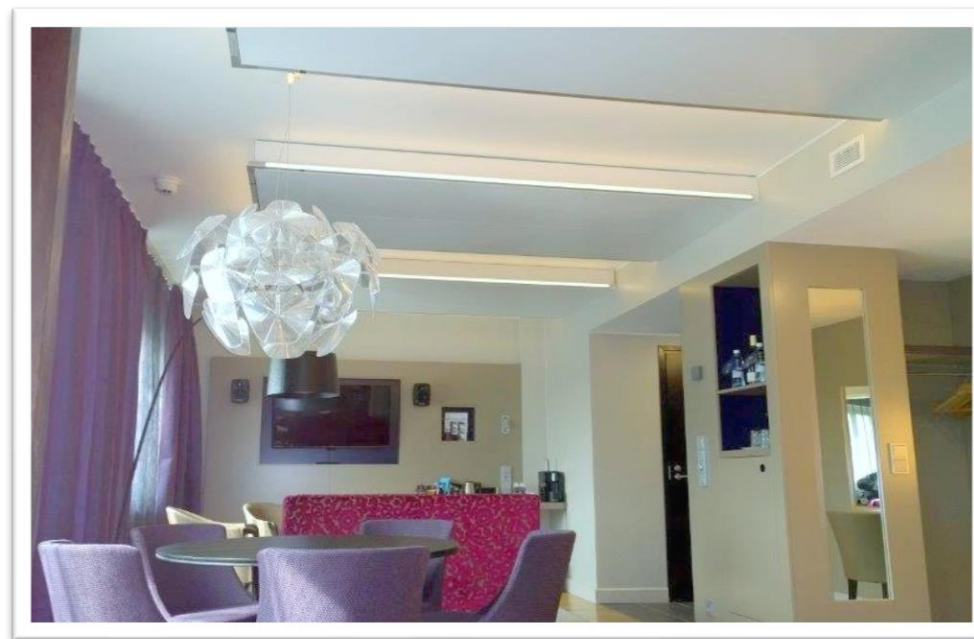
References

- Project: Pohjola Hospitals
- City: Helsinki, Tampere, Kuopio, Oulu, Turku
- Year: 2012, 2015, 2017
- Size: 30 000 m² of private hospitals
- Type: ItuGraf heating and cooling
- Description: Offices, control rooms, patient rooms, doc rooms, dentist rooms, restaurants



References

Project:	Sokos <u>Hotels</u>
City:	Lahti, Kuopio, Jyväskylä, Hämeenlinna etc.
Year:	2015-2017
Type:	Renovations
Size:	over 50 000 m2
Description:	Heating and cooling or just cooling added to quest rooms and lobbies



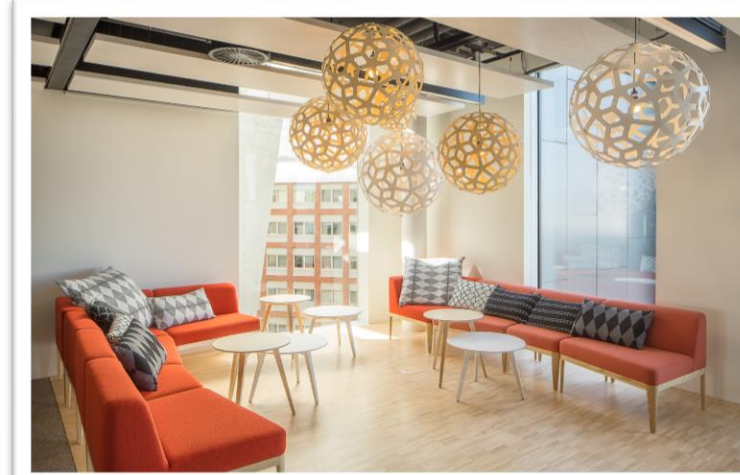
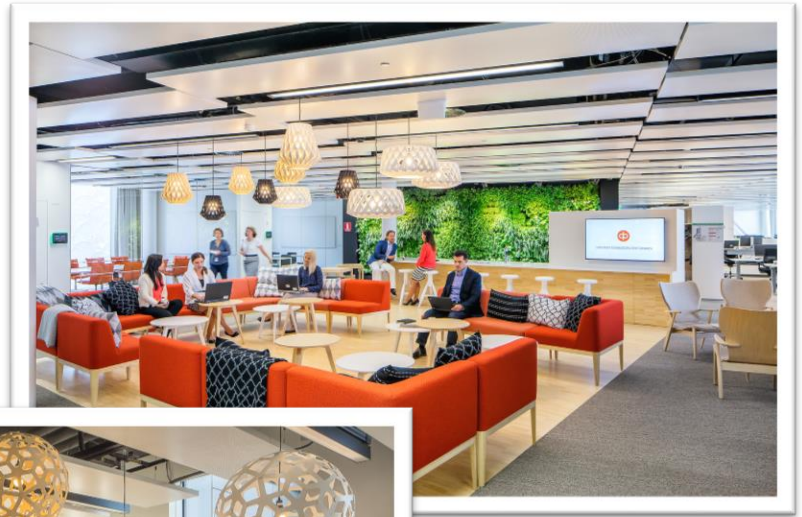
References

Project:	<u>OP Bank H.Q.</u>
City:	Helsinki
Year:	2015
Type:	New building
Size:	64 000 m2
Description:	Heating and cooling with ItuGraf panels



References

Project: OP Bank H.Q.
City: Helsinki
Year: 2015
Type: New building
Size: 64 000 m²
Description: Heating and cooling
with ItuGraf panels



References

Project: Office Building
Kalasataman KUMMELI

City: Helsinki

Year: 2015

Type: **Renovation**

Size: 8 000 m²

Description: Cooling with Itugraf
panels, heating by
radiators



References

Project:	Office Building Kalasataman KASVU
City:	Helsinki
Year:	2018
Type:	New office building
Size:	8 000 m2
Description:	Heating and Cooling ItuGraf panels



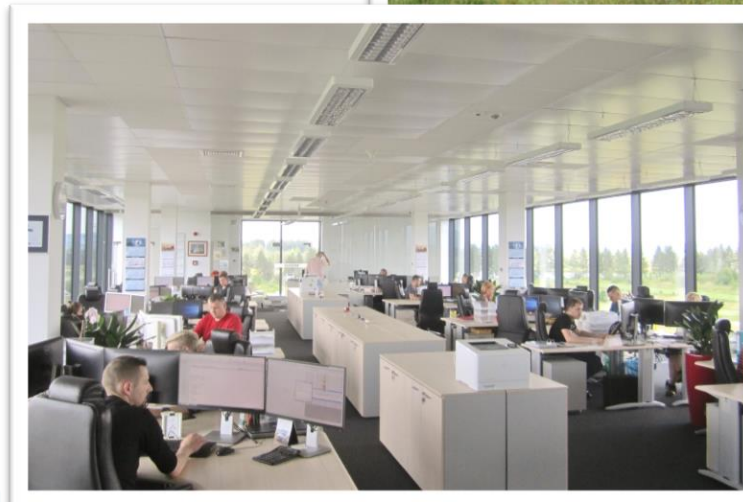
References

Project:	Office Building Kalasataman LOIKKA
City:	Helsinki
Year:	2019
Type:	New office building
Size:	9 000 m ²
Description:	Heating and Cooling ItuGraf panels



References

Project:	Office H.Q. Building of Batim Logistics
City:	Stary Sącz, Poland
Year:	2016
Type:	New building
Size:	2 000 m ²
Description:	Heating and Cooling with Itugraf panels





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Best available indoor climate
with ItuGraf Radiant Cooling and Heating Panels

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