

# HOT news

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**new,  
more  
resistant  
against high  
temperatures**

## SelfTec® PRO TC



Starting from January 2013, our offer has been expanded with a new **SelfTec® PRO TC** heating cable, characterized by increased resistance against high temperatures.

The new heating cable has been especially designed for anti-frost protection of elements highly vulnerable to damages inflicted by low temperatures.

Thanks to the increased resistance against high temperatures, both during normal operation as well as in the off mode, the cable can be utilised for anti-frost protection of central heating and process heat pipelines during pauses in operation, with no risk of overheating during the pipelines' operation.

Output of the new cable is 30 W/m (in the temperature of +10°C).  
Min. installation temperature: -40°C  
Max. operating temperature: +110°C  
Max. exposure temperature: +130°C (in off mode)

### NEW PRODUCT



New heating cable  
**SelfTec® PRO TC**

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### NEW INVESTMENTS



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**Our future  
looks bright**

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### NEW INVESTMENTS



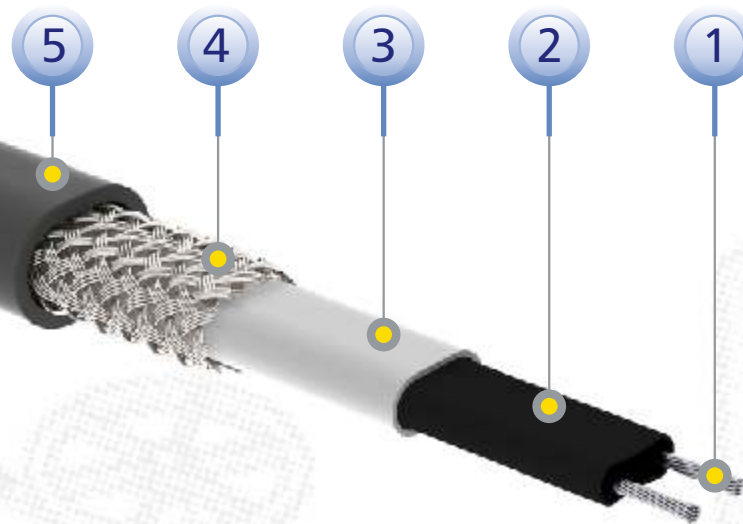
**Jain Center**  
in Somerset,  
New Jersey,  
USA.

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**NEW**  
P R O D U C T

## heating cable structure



- ① Nickel-coated multi-wire copper conductor
- ② Selfregulating conductive core
- ③ TPC insulation
- ④ Tinned copper braiding
- ⑤ TPC outer sheath

NEW heating cable  
**ELEKTRA**  
**SelfTec® PRO TC**



## ELEKTRA INFORMATION

Back in in 2004, according to marketing research firm Frost & Sullivan study, the total American radiant heating markets were worth 467 million USD. By now, the winter of 2012/2013 and despite building and mortgage industries crash of 2007 and 2008 it is likely doubled.

- Overall, these markets are destined to expand much further by overcoming price pressures and standardization issues regarding installation. "Electric radiant heating systems are finding many takers due to its ease of installation - especially, in kitchens, small or medium living rooms, sunrooms (conservatories) and bathrooms - and its application in retrofits," notes one analyst. "They are also highly suitable for mild climates and are handy as a primary or secondary heating source."
- Manufacturers liability for products sold in North America is a HUGE legal issue and offering certified, listed products is big part of avoiding problems, despite origins of these problems. The listing and testing are often cited by a regulation, such as a building code or a fire code, and as such is made law. Consequently it is then the market that regulates that purchased products are certified and deemed safe when sold, installed and approved by building inspectors, as well as welcomed by customers and investors.
- Certification is not simple. It requires extensive testing, inspections at the manufacturer's site and compatibility with other building products in the US and Canada. Certification listings and approvals that follow a successful test are subject to the maintenance of continuous factory auditing to make sure that what was tested is identical to that which was made, or documented proof that the products made continue to meet quality control standards set out as a function of the approvals process.
- As of 2012 Elektra MD mats and DM cables UL are certified for both: United States and Canada. The certification mark provides visual evidence that the product was tested and certified to meet the applicable standard.
- UL mark with the indicators "C" and "US" indicates compliance with both Canadian and U.S. requirements.
- Electrical products for sale in the United States and Canada must be certified to applicable national standards (Canadian or American) by independent third party laboratories. As of now there are several large organizations offering certification work like UL, CSA, ETL, TUV and NSF. These laboratories, in turn, must be and are recognized by the Occupational Safety and Health Administration (OSHA) to evaluate products to US national standards, or by the Canadian Standards Council (CSC) to evaluate products to the Canadian national standards.
- Even though all of the certification organizations mentioned above are recognized by both OSHA and CSC, and can, therefore, certify products to both national and international standards, UL or Underwriters Laboratories is by far the best known and most recognized in product and safety testing organization the World.



**certificates**



## ELEKTRA INFORMATION

# Our future looks bright



	area (m <sup>2</sup> )	cubic capacity (m <sup>3</sup> )
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Total area of the existing part	1 800	9 500
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Total area of the part under development	2 550	13 250
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Area altogether	4 350	22 750
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Area subdivision	area (m <sup>2</sup> )
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Office	500
Warehouse	670
Packing Area	170
Assembly	810
Distribution Centre	120
Available usable area	2 270



The production-warehouse facilities will become available for normal operation in the summer of 2013, whereas the office part will have been moved by the end of 2013.

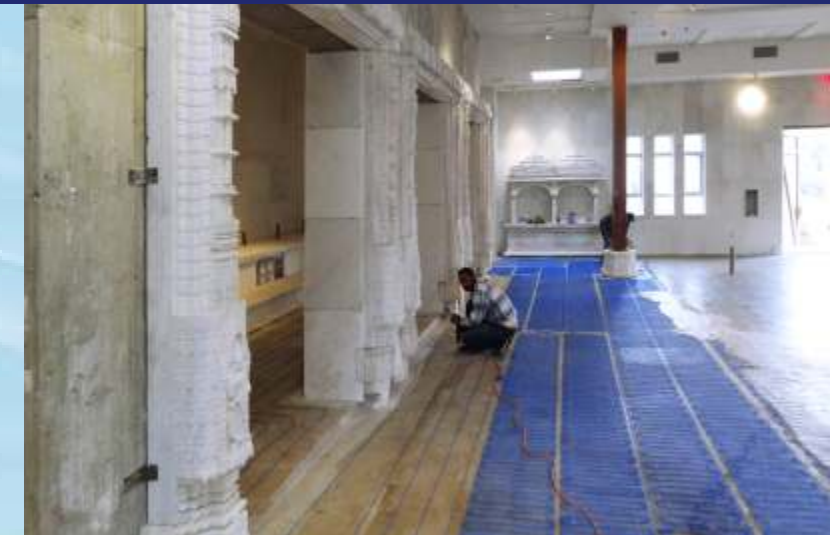


It is with the greatest pleasure that we inform you about the progress in development of the new facilities of our company in Ożarów Mazowiecki, dedicated for production and office operation.



**ELEKTRA**  
INFORMATION

## Radiant floor heating in Jain Center in Somerset, New Jersey, USA.



Just as United States is a much diversified country with nearly all of World's languages spoken, so is New Jersey, small eastern state bordering New York State and New York City. For instance, data from the decennial census show that New Jersey's Asian population reached 725 000 in 2010 and is likely surpass 1 million in the coming years.

The major Asian group in New Jersey is Asian Indians (near 300 000) which is more than Chinese (135000), Filipino (110000) or Korean (nearly 100 000). The overwhelming majority of the state's Asian residents were immigrants, or those not born in the U.S. The largest population increase was in the number of South Asians — Asian Indians, Pakistanis, Bangladeshi and Sri Lankans accounted for 57

percent of the state's gain in Asian population between 2000 and 2010. Back in 1980 there were only 100 000 Asians in New Jersey, so the population growth is - at minimum - impressive. Asians are usually very traditional, bringing with them and cultivating customs, culture and religions. They usually settle in their own close net-communities, like many resourceful immigrants start businesses, restaurants, stores and places of worship among many other ethnic enterprises.

This growth cycle continues in many towns of Middlesex County in New Jersey, like for example town of Somerset, where there are over 40 different churches and temples of many religions. The newest and largest one to date there is Jain Center, a very impressive project comprising of a 5000-sq.-ft. temple (450 m<sup>2</sup>) and a 43600-sq.-ft.(3960 m<sup>2</sup>) assembly building, including library, an auditorium, classrooms, and dining facilities.

**Jainism is a very ancient and somewhat elite Indian religion. Elite, because there are more Catholics in India than Jains. Less than 1 % of Indians are Jains. It is a very old religion, older than Buddhism and many Buddhist doctrines have origins in Jainism.**

Jainism prescribes a path of non-violence towards all living beings. Its philosophy and practice emphasize the necessity of self-effort to move the soul toward divine consciousness and liberation. Any soul that has conquered its own inner enemies and achieved the state of Supreme Being is

called a jin ("conqueror" or "victor"). Jainism is a very strict religion where vegetarianism is a must.

As with most Asian religions praying and meditation directly on the floor is typical. The floors of Jain Center Temple, as most of its structure are finished in white Indian marble. This was an ideal ground for one of the largest indoor applications of Elektra heating products in NJ: numerous MD mats and DM cables covering over 2000 sq. ft. (185 m<sup>2</sup>) of the prayer hall floor, controlled by just one thermostat by way of eight 30A 208V contactors

located below the prayer hall in the mechanical room. Total actual load of the system is 150A.

Even though most Koreans know what Ondol is (traditional Korean method of floor heating) – most Indians in Asia likely never heard about it, but while in United States – they can experience it.

As of the end of 2012, there are plans and locations for two more Jain Temples to be built in New Jersey soon.



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