



Save Energy, Save Money

Did you know as much as 50% of the total energy loss in a well insulated building occurs through and around doors and windows?

Despite today's increased energy awareness, the answer to the question "where does my money go?" can all too often still be answered "straight out the front door".

Your **Entrance**. Our **Technology**.





Revolving doors are the perfect solution

Draft prevention at building entrances is a critical area of building design when looking to minimize drafts and conserve energy.

Conventional swing and sliding door entrances create a hole in the building envelope every time someone passes through, allowing outside air to rush in to displace the controlled internal atmosphere. Draft lobbies, which take up a lot of space, are sometimes used in an attempt to solve this problem but studies show they frequently open at both ends, rendering them completely ineffective.

Boon Edam has known this for a long time and has been producing revolving doors for over 100 years, allowing people to pass through our “always open, always closed” entrances while creating a barrier to drafts, dirt and noise in buildings all around the world.

Whether it's to keep cold drafts out or cool air-conditioned atmospheres in, our revolving doors are the perfect solution for separating the outside environment from the inside of your building, conserving energy and creating a more comfortable environment.

*‘Always open,
always closed’*

Cost savings and comfort

Reducing energy loss is not only good for the environment, it can also provide significant savings on heating and cooling costs. By saving energy, you will save money; often a revolving door will pay for itself many times over during its life span. A Boon Edam revolving door allows you to create a comfortable, draft-free environment, even close to the entrance, enabling maximum use of floor space. Legislation is putting more and more emphasis on employers to provide better working conditions for their employees, and research has shown that a more comfortable working environment reduces employee sickness and absenteeism.

Revolving doors don't just look good; they provide real, tangible benefits:

- Conserve energy
- Reduce energy bills
- Increase floor space
- Create a more comfortable working environment
- Reduce draft, noise and dirt infiltration

These benefits are not new in themselves – but the opportunity to use carefully researched computer software to calculate precise energy savings and determine the improvement in draft penetration is certainly a welcome innovation.

Let us help you save your money

By working in close cooperation with the University of Delft in the Netherlands, we have achieved an important breakthrough. We have developed computer software that not only quantifies the amount of energy a revolving door will save in comparison to other entrance types, but also measures the extent of draft infiltration.

Such information is vital when planning where to situate reception desks, waiting and visiting areas. Energy efficiency is rapidly gaining ground in the list of priorities when designing buildings, and this new software can calculate savings for refurbishment projects or complete new buildings.

We can prepare a revolving door energy saving analysis, modeled on your own building or prospective project so you can see not only if a revolving door is right for you, but what particular model is best suited. The analysis quantifies the energy saving and draft prevention benefits of revolving doors compared to other entrance types.

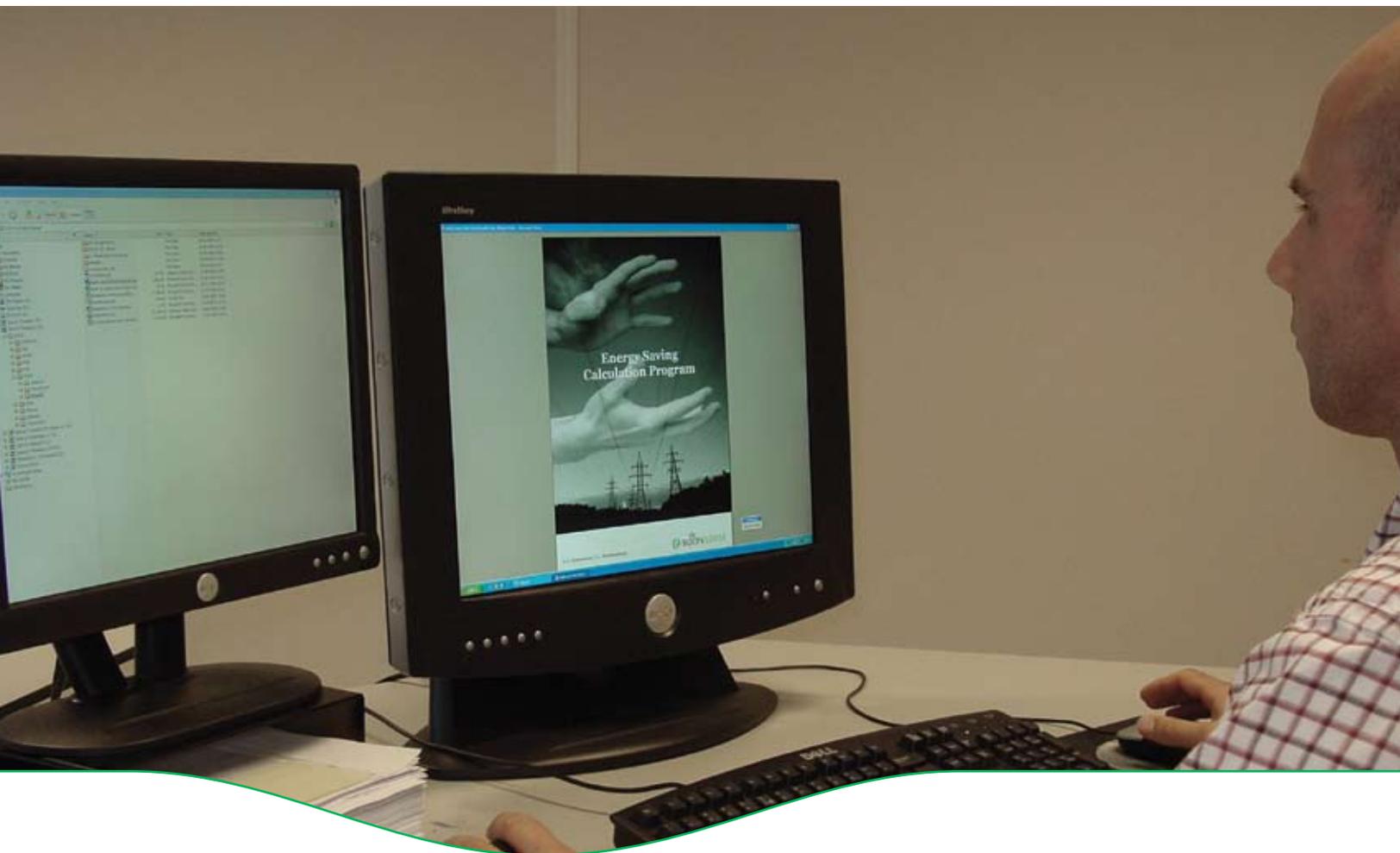
We take into consideration everything from the building's specifics, such as dimensions, orientation and air permeability, to published local climate data, energy costs and passage frequency of the entrance.

As a conclusion, the analysis provides:

- Energy savings in kWh per month
- Analysis of draft prevention
- Pay back calculation.

Whether your primary concern is return on investment, environmental impact or creating a comfortable building environment, the benefits of revolving doors are significant. To see just how significant they could be for you, please contact Boon Edam.

'modeled on your own building or prospective project'





Case study: Albert Heijn Supermarket

Client: Ahold

Location: Albert Heijn Supermarket, Heerhugowaard, NL

Comparison: 4800mm Tournex revolving door vs. single sliding door

The client's objectives were:

- To reduce the draft penetration into the building to create more useable floor space and prevent staff complaints arising from adverse working conditions
- To contribute towards an overall energy efficiency improvement. Following the 1997 Kyoto protocol, the European Union committed to a substantial reduction of CO emission. In 1997 Ahold, and many other major EU companies, agreed to participate in national agreements to comply with this initiative

Results:

- Draft penetration: Reduced from 7 meters (23 feet) to 60 centimeters (2 feet), creating a much more comfortable environment
- Energy loss reduction through entrance: 55%

This example is typical of a small supermarket with relatively low traffic flow. Larger buildings with heavier usage flow show significantly more dramatic results and energy saving benefits that pay for revolving doors many times over within the life of the products.

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