

# MONDO

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Sweden  
Astra Zeneca  
-Karlehus

Finland  
Esport Arena

California  
East West  
Ice Palace

# Astra Zeneca Offices

Karlehus-



# Astra Zeneca

Karlehus -  
Building of the year 2004  
Södertälje, Sweden



"The open layout of the building office was chosen in conjunction with the company's philosophy, where hierarchy among employees is minimized. In fact no one in Astra Zeneca, from the Vice President to the junior employee, has a private office."



Spazio Mondo interviewed the Lomar Architects, the architectural firm in charge of the Astra Zeneca office building project in Sweden. Although their projects display a wide variety of styles and functions, they have always stated that the common denominator is that their clients view design as a device to distinguish themselves in a competitive market.

"Strong colors constitute a recurring theme in the new office building of Astra Zeneca, located near Södertälje, outside Stockholm (Sweden). The stairs and handrail are in a particular acid green color and the red sections of the external façade are all ingredients that contribute to make the building, designed by Lomar Architects, stand out from the other office buildings. However, the most distinguishing feature of the building is the use of space in the organization of its interiors.

The interior of the building has been designed in an open layout style to take advantage of natural light from the skylights and atria. The sweeping staircases are wrapped around glass-enclosed elevators further enhancing the openness provided by the atria. The landscape areas are organized into suites or islands allowing different groups of people working together at the same time, on different 'levels', to be undisturbed.

The interior areas are joined by a series of bridges which connect the building at various levels, while the working areas have all been organized as open space rooms, located along the outer perimeter of the façade.

"The organization of offices into an open space, rather than traditional individual offices, reduces the measured square meters per person. In this new construction, the exploited surface area in square meters is 30% lower."



Between the working, open space rooms and the central part of the building, common areas have been provided in the form of conference rooms, special event areas, and lounges to encourage interaction among people. These common areas also serve as barriers to lower the noise levels.

The open layout of the building office was chosen in conjunction with the company's philosophy, where hierarchy among employees is minimized. In fact no one in Astra Zeneca, from the Vice President to the junior employee, has a private office. Another explanation for this decision is to further enhance interaction among colleagues.

When this system was first introduced many people felt uncomfortable with it. Therefore Astra Zeneca hired a consultant, whose primary role was to work with the company to define common rules as to how people could best interact with each other.

It seems perfect that companies start thinking about how to break the isolation of personnel and encourage interaction among employees during working hours; but many believe the real reason for such an organization of office spaces can be attributed to cost reductions.

The organization of the offices into an open space, rather than traditional individual offices, reduces the measured square meters per person. In this new construction the exploited surface area in square meters is 30% lower."



## About an acoustical surface: Unito

"One of the main characteristic of the flooring system is its acoustical property: Mondo's Unito rubber floor really acts as an acoustical structural board, reducing the noise level typical of an office building, especially when open.

The second reason is its ease of maintenance and cleaning.

The alternative could have been Linoleum but it would not have offered the durability and good environmental impact as rubber can. This is the first office of Astra Zeneca to be nearly totally installed with rubber and we are very pleased with it."

Mr. Lars Enander, Assistant Director Facilities - Project Manager,  
Capital Investment for new building • Astra Zeneca group

# Esport Arena Helsinki

Spazio Mondo interviewed Mr. Heikki Paakkinen, Architect, M.Sc., Managing Director of Architect's Office Holvi Oy Ltd of Esport Arena in Helsinki, Finland:

**“Is Esport characterized by some particular innovation from the architectural point of view?”**

Esport Arena is situated in Tapiola garden city in Espoo. Tapiola is famous for its beautiful architecture and nature. We have paid a lot of attention to create a building that suits the demanding surroundings. We also wanted to create an atmosphere where people like to stay and feel relaxed and refreshed during and after their visit.

It was challenging to combine all the different functions and sports together in one building while connecting this to the existing older sports centre, the Esport Center. As far as we know this is the only full-size football field that exists on the second floor.

**Is Esport also characterized by innovations in terms of new products being installed or new technologies?**

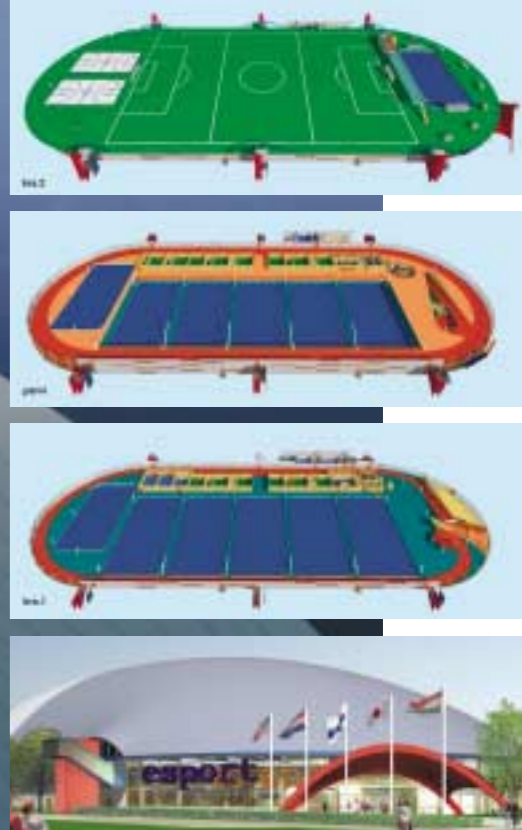
The constructional solution of the Esport Arena has been very carefully studied. Since there are no existing examples of this type of building, its structural principles had to be planned from the very beginning. The building is large in comparison to its weight, so it had to be anchored to the hard rock in the ground to prevent it from being blown away.

The floor construction used in Esport Arena is an innovation mainly used in ship building: it is a laser welded steel sandwich slab. The slab is made fireproof by adding a layer of steel reinforced concrete above.



“As far as we know this is the only full-size football field settled on the second floor.”

Does something similar to this already exist somewhere else in the world?  
There of course are sports centers with different combinations, and this one has its own combination. In a way it is the only one of its kind in the world.



## Holvi Oy Architects

Architect's Office Holvi Oy Ltd was founded in 1988. The speciality of this company is to create excellent architecture and design in exceptional and demanding environments; they combine the forming of space with skilful management of forces and structures. Main partners in design are the Tritthardt Ingeniure in Germany and the Pohjanmaan Insinööritoimisto Engineering, Helsinki, in Finland.

The concrete also connects the steel slab to the steel beams resulting in a load bearing composite structure.

The air supported roof construction is thermally insulated – the first of its kind in the world - and it is made fire resistant by using fire proofing material in the lower part of the roof. The air is pressurized by two pumps and one diesel engine as a reserve, and controlled by automatic pressure and movement control.

**What was the reasoning behind the balloon shaped structure?**

The balloon shape is optimal for ball games and the overall architecture of a gigantic building of this size. The space inside is high where it needs to be high and low where height is not required. It follows the course of a flying ball and while inside the hall is spacious, outside it looks much smaller. The closer to the building you stand, the smaller it looks.

**Exactly how long did the construction last?**

The installation time has been very short. This was due to the use of more than one crew working on the different floors. The constructing of the building did not take very long; its steel skeleton was erected in the autumn of 2004 and the finishing works were carried out in summer and autumn 2005.

One has to remember that the Finnish winter is long and cold: the lowest temperatures were around -30° Celsius, and at that time there was no roof or walls!

**How did you manage the unloading and the access to 2<sup>nd</sup> and 3<sup>rd</sup> floors?**

At the building site we used mobile cranes, which needed reinforced platforms because of the soft and wet soil. The steel elements were comparatively light to lift and install: especially the steel slabs. The concrete was almost all pumped to its position, only some prefabricated concrete elements were used. Also the Mondo football turf sand and rubber granulate, the Ecofill®, were pumped to their place.”

SURFACES	Turf Mondoturf Ecofill®	Basketball Mondosport HP	7 Bandy Fields Jogging & roller skating track Mondoflex
	Track & Field Sportflex Super X	Weight room Sport Impact	Common Areas Futura 4 mm

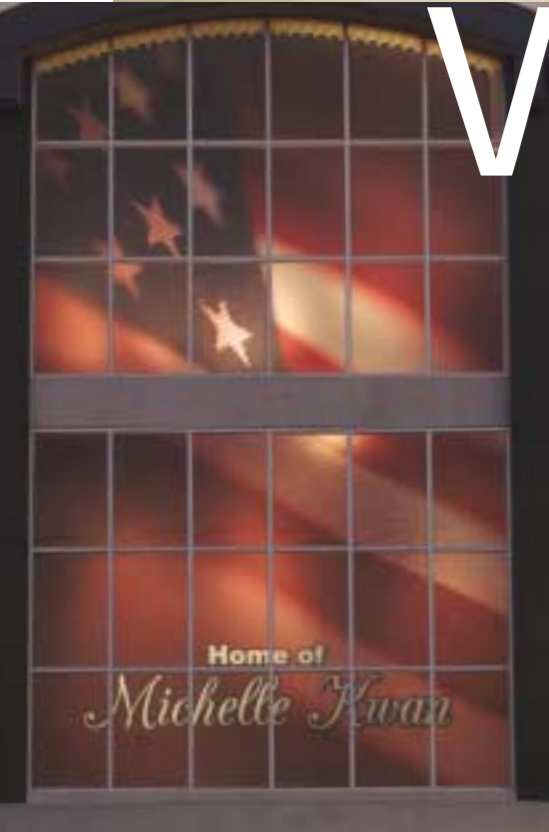




# East

The East West Ice Palace, centrally located in the Los Angeles suburb of Artesia, had its grand opening May 2005.

# West Ice Palace



"This is a complete training center where hockey players, figure skaters, family members and others can develop, train and prepare their bodies for ice sports."

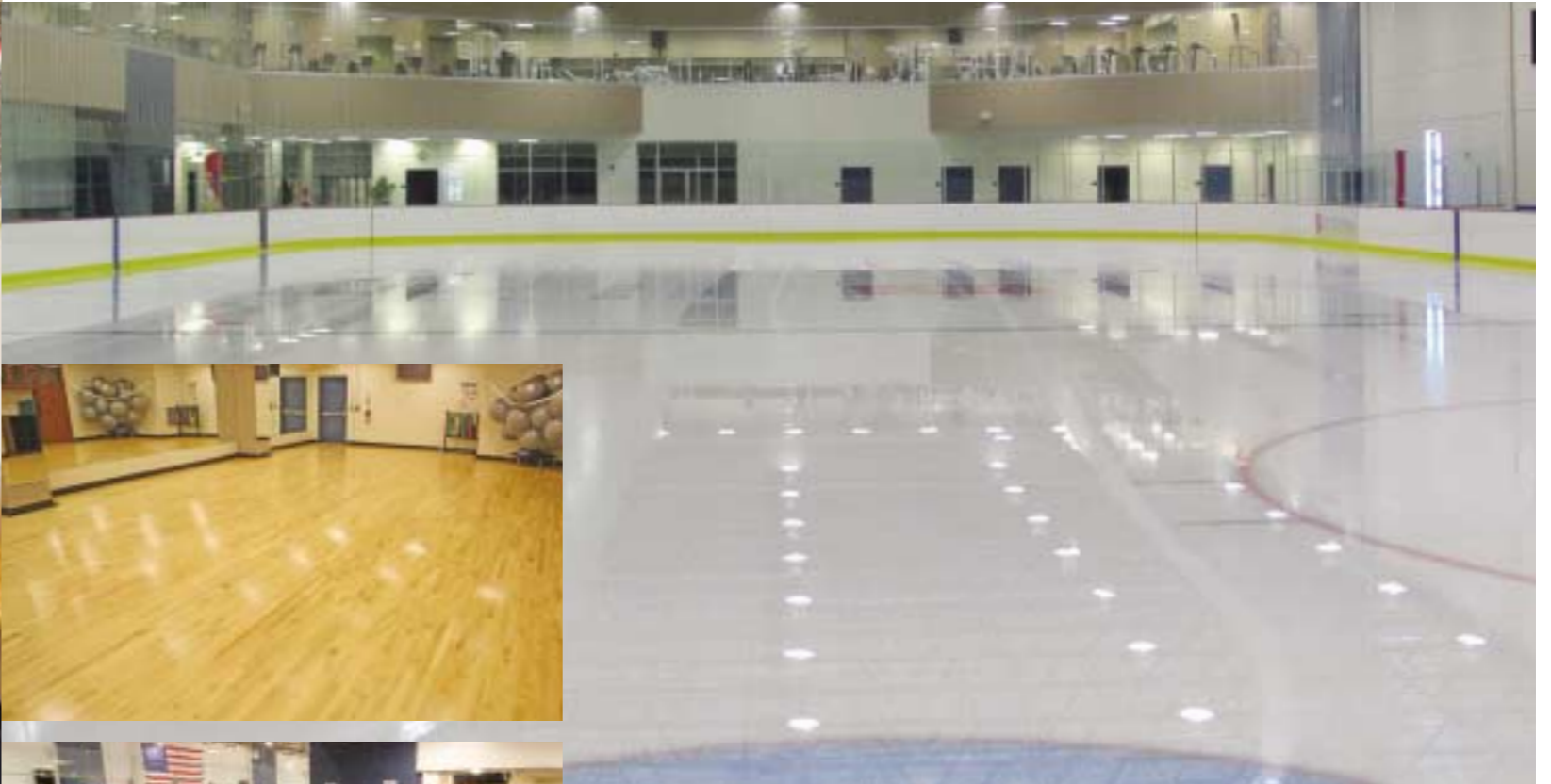
#### 43,000 SQUARE FOOT FACILITY:

- Full-size ice surface
- Fully equipped state of the art fitness center including cardio and weight room area
- Studio for dance, yoga and aerobic classes
- Locker rooms
- Pro shop
- Snack bar

#### VISION OF THE CLIENT

According to Tom Zepko, Director of Facilities and Maintenance, "The East West Ice Palace is the realization of Michelle Kwan and her family's vision to give back to sport of skating by bringing a classy skating facility to the neighborhood and community."

They wanted to offer a serious training facility to accommodate the athletes, but still make it a fun place for families to come for a multitude of recreational activities. They wanted it to be clean, bright, and comfortable - an overall pleasant place to be. To accomplish these goals we chose materials that are easy to maintain, that don't harbor any mold from water, and are durable enough to handle the skate traffic."



#### ARCHITECT'S SOLUTION

In response to the owner's vision, the architect utilized the open space of the facility to his advantage, bringing all the activities together.

Architect Paul I. Kim stated:

"We wanted to utilize the height of the two-level facility so we decided to construct the fitness center around the ice surface in a mezzanine type space. This use of space provided an open design that allows everyone to see the ice surface while training; moreover the openness of the space provides the visual effect of more light. All this was accomplished by dividing the fitness area in an enclosure of clear glass instead of walls; while training the athletes or parents are able to see all that is happening on the ice."

ARCHITECTS  
Paul I. Kim & Associates

SURFACES  
Weight Room Sport Impact    Cardio Area Sport Impact    Dance Room Mondwood    All off Ice Areas Sport Impact

### GYMNASIUM

## INTRODUCING THE CREATION OF



## NEW MONDOFLEX: A NEW COMPOSITE

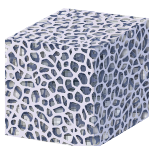
Mondo has introduced a modern composite made of three layers, the 1<sup>st</sup> and 2<sup>nd</sup> layers made of vulcanized rubber, a thermoset material and a 3<sup>rd</sup> layer made of a three-dimensional cross-linked polyurethane elastomer. The three layers combine during the curing/ manufacturing process to form the new generation MondoFlex gym surface.

The innovative feature of this new composite is the three-dimensional cross-linked polyurethane elastomer.

### THIS UNIQUE PROCESS BRINGS:

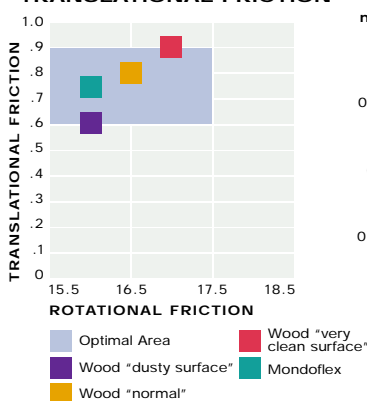
Increased tensile strength, tear strength, fatigue life, and toughness. Shock absorption, energy return, insulation, noise-absorption, load-capacity & elasticity.

### ABOUT POLYURETHANE FOAM

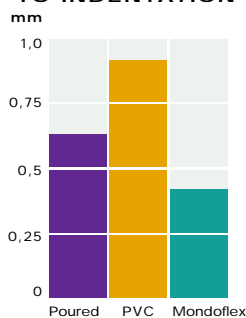


The open cell foam construction means that the foam bubbles (cells) remain mostly open, resulting after a critical stage in the foam-making process. This is a vitally important process to make a dense yet elastic polyurethane foam and create a three-dimensional cross-linked structure.

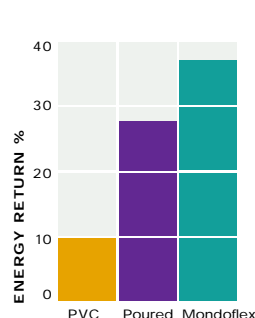
### ROTATIONAL AND TRANSLATIONAL FRICTION



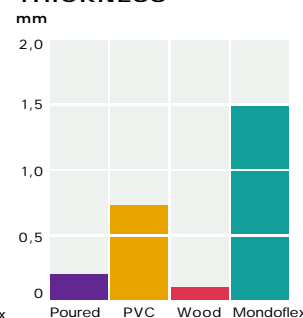
### RESISTANCE TO INDENTATION



### ENERGY RETURN



### WEAR LAYER THICKNESS



**CONTACT MONDO FOR MORE INFORMATION ON THIS SPECIAL SURFACE**

### COMMERCIAL

## New process: TEMPERED RUBBER A shield against stains



No need to use any polyurethane protection for rubber floorings anymore because the surface, becoming non-porous and free of

imperfections, do not require any pore filling finishing.

The "tempered" process takes place during the vulcanisation phase of flooring manufacturing. In the tempered process the surface of the product undergoes a special treatment that ensures an increase in hardness, extreme compactness and superficial density as well as improved dimensional stability, without affecting in anyway flooring resilience.

Most importantly, the "tempered" process does not require any type of precautionary measures, such as waxing and it blends perfectly with the so-called dry or mechanical cleaning systems that require a reduced use of chemical cleaning products.

### BASKETBALL



## Euro Cup All Star Day 2006

SPYROS KYPRIANOU ARENA, LIMASSOL



It has been a great honour for Cyprus to be hosting for a second time the extravagant event Euro Cup All Star Day 2006 on 14<sup>th</sup> and 15<sup>th</sup> March. The venue for the event was Spyros Kyprianou Arena, a brand new basketball facility that has been used for the first time beginning with the All-Star Day Game. The surface of the Limassol Sport Hall has been provided with 2.200 sq.m. of Mondoelastic, Mondo's special system which guarantees high performance level to the athletes as it surpassed every technical criteria required for athletic competition at the highest level.

## OUR PRESENCE

### SPORT EVENTS

**Carifta Games 2006**  
Stade des Abyrne, Guadalupe  
April 14-16

**Euroleague Basketball**  
Basketball Final Four  
Prague, Czech Republic  
April 28-30

### FAIRS

**Planet Fútbol**  
Barcelona, Spain  
April 19-23

**Venue Expo - Sport Turf Summit**  
Munich, Germany  
May 3-5  
Stand F17 - Hall A5

**EXPOSANITÀ**  
Bologna, Italy  
May 25-27  
Stand D 50 - Hall 16

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