

# AMSTERDAM ARENA STADIUM

## LEXAN™ SHEET

One of the first commercial applications of revolutionary LEXAN™ Solar Control IR polycarbonate sheet from SABIC's Specialty Film & Sheet business is helping to block the elements from crowds as they come and go at the Arena in Amsterdam. The four escalators leading to the Arena are enclosed in the new material. The escalators are designed to help handle large crowds, which can lead to uncomfortable temperature levels within the enclosures. Natural ventilation combined with the LEXAN Solar Control IR glazing helps to avoid heat build-up. LEXAN Solar Control IR polycarbonate sheet helps absorb infrared (IR) and near-IR radiation from the sun, potentially reducing interior heat buildup by up to levels as much as 40 percent. In addition it can offer up to 60 percent more visible light transmission than other plastic-based IR-absorbent glazing products.

The escalator enclosures benefit from the toughness of LEXAN polycarbonate sheet, allowing them to shrug off rain, snow, hail and wind. The curved, transparent escalator glazing of LEXAN Solar Control IR polycarbonate sheet helps admit large amounts of natural light, enhancing aesthetics and reducing energy needs for interior lighting and cooling. LEXAN Solar Control IR sheet is lightweight and its formability, as well as impact and fire resistance, makes it an excellent choice for this structure. Finally, it has excellent flame resistance, building-code approval with EU and ICBO, and other high-performance properties. The LEXAN sheet glazing offers outstanding design freedom thanks to its ability to be cold formed and/or thermoformed without losing impact or weathering properties. It offers a 10-year written limited warranty against reduction of light or solar transmission properties, yellowing, and breakage due to hail impact. LEXAN Solar Control IR sheet products are available in all standard gauges and dimensions.

The LEXAN Solar Control IR polycarbonate sheet-based escalator covering joins an earlier application – the Arena's 20,000m<sup>2</sup>-sliding roof, glazed with LEXAN THERMOCLEAR™ polycarbonate sheet, which allows events to be staged regardless of the weather. Amsterdam Arena in The Netherlands was Europe's first stadium with a sliding roof, which was constructed from transparent Lexan Thermoclear sheet. An independent research organization, TNO Science & Industry, tested the properties of Lexan Thermoclear multiwall sheet from the roof of the Amsterdam Arena stadium after 15 years and found no significant change. The minimal loss in light transmission of 1.5 percent and small increase in yellowness index of 1.1 point met the product warranty.

The Amsterdam Arena has a total capacity of some 52,000 seats. Conventional seating combined with nine founder boxes, 54 skyboxes, 8 skylounges, 12 skyrooms, 20 VIP seats and 1,500 business seats together with 230 press seats and 68 wheelchair spaces. In addition to major sports and concert events, the Arena is also popular for such smaller events as product presentations, theatrical performances, sales training, and company celebrations. Altogether, the Amsterdam Arena hosts about 70 major events per year, with around 2.1 million visitors in total, including tours.



## CONTACT US

### SABIC Corporate Headquarters

PO Box 5101  
Riyadh 11422  
Saudi Arabia  
T +966 (0) 1 225 8000  
F +966 (0) 1 225 9000  
E [info@sabic.com](mailto:info@sabic.com)

### AMERICAS

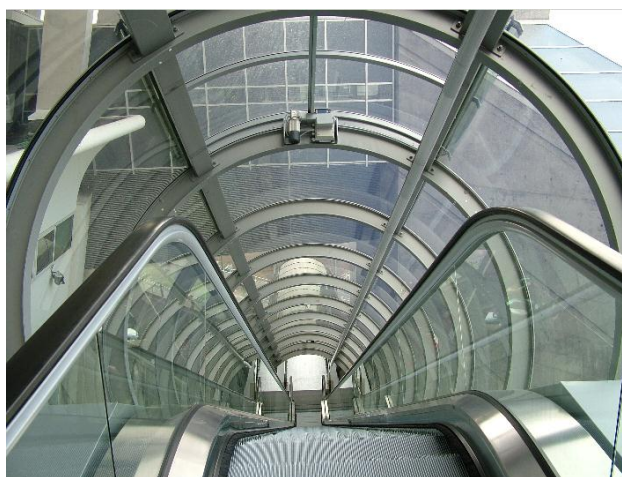
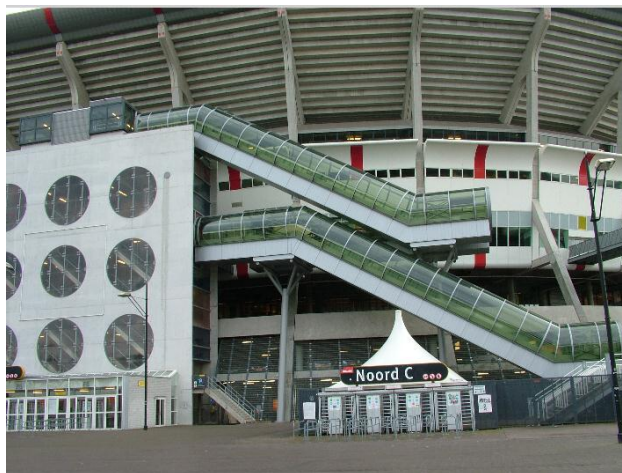
SABIC  
Specialty Film & Sheet  
One Plastics Avenue  
Pittsfield, MA 01201  
USA  
Tol-free 1 800 323 3783 ext. 3  
T +1 412 448 7125  
F +1 888 442 2022  
E [sfscustomerservice@sabic-ip.com](mailto:sfscustomerservice@sabic-ip.com)

### EUROPE

SABIC  
Specialty Film & Sheet  
Plasticslaan 1  
4612 PX  
Bergen op Zoom  
The Netherlands  
T +31 164 293684  
F +31 164 292272  
E [sfs.info@sabic-ip.com](mailto:sfs.info@sabic-ip.com)

### PACIFIC

SABIC  
Specialty Film & Sheet  
2550 Xiupu Road  
Pudong  
201319 Shanghai  
China  
T +86 21 2037 8188  
F +86 21 2037 8288  
E [sfs.info@sabic-ip.com](mailto:sfs.info@sabic-ip.com)



**LEXAN**™ Tough  
Polycarbonate Sheet Virtually  
Unbreakable

THE MATERIALS, PRODUCTS AND SERVICES OF SABIC INNOVATIVE PLASTICS HOLDING BV, ITS SUBSIDIARIES AND AFFILIATES ("SELLER"), ARE SOLD SUBJECT TO SELLER'S STANDARD CONDITIONS OF SALE, WHICH CAN BE FOUND AT <http://www.sabic-ip.com> AND ARE AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION OR RECOMMENDATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SELLER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING SELLER'S PRODUCTS, SERVICES OR RECOMMENDATIONS. EXCEPT AS PROVIDED IN SELLER'S STANDARD CONDITIONS OF SALE, SELLER SHALL NOT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS PRODUCTS OR SERVICES DESCRIBED HEREIN. Each user is responsible for making its own determination as to the suitability of Seller's products, services or recommendations for the user's particular use through appropriate end-use testing and analysis. Nothing in any document or oral statement shall be deemed to alter or waive any provision of Seller's Standard Conditions of Sale or this Disclaimer, unless it is specifically agreed to in a writing signed by Seller. No statement by Seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Seller or as a recommendation for the use of such product, service or design in a manner that infringes any patent or other intellectual property right.

SABIC and brands marked with ™ are trademarks of SABIC or affiliates.  
© Copyright 2014. All rights reserved.