



Energy-Efficient and Safe Multiwall Sheets for Data Centers

Technical Performance. Energy Efficiency. Long-Term Reliability.



The Challenge: Performance and Energy Efficiency

Data centers are among the most energy-intensive infrastructures of the digital economy. Rising computing densities and growing environmental requirements increase the demand for reliable, efficient and well-controlled climate management. Effective separation of cold and hot airflows is essential to ensure stable operating conditions while reducing cooling energy demand and improve Power Usage Effectiveness (PUE).



The Solution: Polycarbonate Multiwall Sheets for Airflow Management.

Exolon® polycarbonate multiwall sheets provide lightweight, robust and durable partition elements for Cold Aisle Containment (CAC) and Hot Aisle Containment (HAC) systems. By creating clearly defined air zones, they support efficient airflow management, optimized Heating, Ventilation and Air Conditioning (HVAC) performance and reliable and economical data center operation.



Optimized Thermal Insulation through Advanced Multiwall Geometries.

Advanced multiwall geometries provide effective thermal insulation, with selected structures offering approximately 15% better performance than conventional twinwall sheets of comparable thickness. This helps to reduce heat transfer and support stable temperature control in IT environments while maintaining low weight.



ECOplus – Supporting a reduced carbon footprint

Exolon® polycarbonate multiwall sheets can be offered in an ECOplus version using renewable instead of fossil-based raw materials, monitored through ISCC PLUS certification. This helps reduce the carbon footprint of data center construction projects.

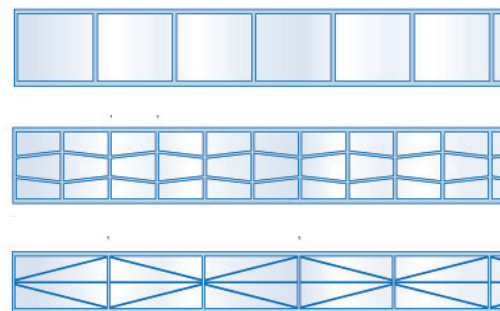
Exolon® Polycarbonate Multiwall Sheets – Reliable Performance for Modern Data Centers

The sheets combine thermal performance, mechanical stability and durability to support energy-efficient reliable data center infrastructure.

Fire Classification:

- Class A (ASTM E84)
- B-s1,d0 (EN13501-1)

Applicable to selected Exolon® polycarbonate multiwall sheets.



Added Value for Design, Operation and Cost Efficiency



Energy Efficiency & PUE Optimization

Improved airflow separation supports efficient cooling, reduced energy demand and optimized PUE.



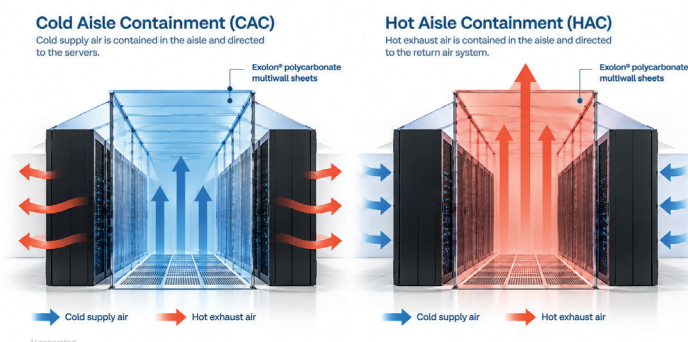
Durability & Design Flexibility

Lightweight, robust sheets for long-lasting horizontal and vertical installations.



Long-Term Cost Efficiency

Durable, low-maintenance solutions supporting optimized total cost of ownership.



In addition to multiwall sheets, Exolon Group also supplies flame-retardant solid polycarbonate sheets suitable for applications with increased fire protection requirements.

exolon
GROUP

Exolon Group S.p.A
Strada Di Vagno 15/A –
05035 Nera Montoro (TR)

Italy

sales@exolongroup.com
www.exolongroup.com

The manner in which you use and the purpose to which you put and utilize our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance, information and recommendations to determine to your own satisfaction whether our products, technical assistance and information are suitable for your intended uses and applications. This application-specific analysis must at least include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Exolon Group. Unless we otherwise agree in writing, all products are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. It is expressly understood and agreed that you assume and hereby expressly release us from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance, and information. Any statement or recommendation not contained herein is unauthorized and shall not bind us. Nothing herein shall be construed as a recommendation to use any product in conflict with any claim of any patent relative to any material or its use. No license is implied or in fact granted under the claims of any patent. Exolon® is a registered trademark by Exolon Group.
Edition: 2026 · Order-No.: MF0456 e