

SOLUTIONS
AND SERVICES

Curtain Wall Capabilities

BAE Systems / Sterling Heights, MI / Architect: Smith Group

EFCO® Products: 5600 Curtain Wall, S433 Storefront and D500 Entrances



YEAH, WE DO THAT.



THIS IS EFCO

With a commitment to innovation and outstanding commercial design, EFCO Corporation welcomes the chance to take on design challenges that are commonplace in an ever-changing industry.

With an expansive range of design and engineering services, a dedicated team of experts and a comprehensive portfolio of aluminum fenestration products, EFCO has the ability to adapt to each project and provide custom commercial building solutions each time.



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WHY EFCO

D.L.O.

UNIT DIMENSION

FRAME DIMENSION

1/8"

3/16"

1/4"

1/4"

7/8"

1 7/16"

1 7/16"

3"



A start-to-finish solution

EFCO has the expertise to help you bring your design vision to life — no matter the challenge. With a seasoned team of in-house architectural, engineering and project management experts,

we provide a vertically integrated project support system from start to finish. Think of us as your design partner — there to help ensure that your project remains on time and on budget, fulfills the performance requirements, and meets the design vision at completion.

of installation labor at the job site. This can also result in quicker installation of unitized curtain wall units to help keep your project on schedule.

We can provide comprehensive installation training for your building crew, and a support representative will follow up on the progress of the installation and provide additional support services that may be needed to complete your project.

Our approach to vertical integration also allows a project manager to track the progress of the products and project from conception to completion.

Whether you're concerned with meeting performance requirements or your budget, our team of engineering and design experts will help you find the right solution for your project.

OUR APPROACH TO VERTICAL INTEGRATION

During the manufacturing process, we can extrude our own shapes and fabricate, finish, assemble and glaze our products. Our ability to assemble and glaze unitized curtain wall in the factory environment provides quality control and helps reduce the cost

VENT D

BENEFITS OF EFCO'S VERTICAL INTEGRATION

IMPROVED COST SAVINGS. Flexible product designs and one-stop-shop capabilities mean more opportunities to minimize product and labor costs.

ENHANCED QUALITY CONTROL. With fewer players involved in the process, we have more direct control of the quality and performance of our products—from extrusion tolerance to a consistent finish.

SHORT PROJECT LEAD TIMES. From start to finish, we'll handle the details to help ensure that products are produced, delivered, and installed accurately, efficiently, and on time.



SOLUTIONS



WE'LL HELP WITH THE DETAILS.

Along with access to a full team of design and engineering experts, you'll have a dedicated EFCO project manager as your single point of contact. We'll help manage the details throughout the entire design and construction process—leaving you more time to focus on the bigger picture.

Pre-construction services

We work hard on the front end to help ensure that the final result looks and performs the way it was intended to.

ESTIMATING

We can help you keep project costs on track by identifying solutions within your parameters and providing detailed project estimates during the design and development phases, as well as offering a complete pre- and post-bid cost-savings analysis.

SHOP DRAWINGS

From basic drawings to full structural reviews and custom designs, we'll supply you with a set of shop drawings (each performed under the supervision of a licensed engineer) outlining the design intent of your project and including fabrication and installation methods.

ENGINEERING SOLUTIONS

Some projects demand a higher level of detail and customization—because a mistake could be costly. Our team of engineers will confirm that the designs are properly vetted to meet the performance and testing requirements.

THERMAL ANALYSIS

With a commitment to providing products that meet or exceed thermal code requirements for each project, our thermal analysis service includes full thermal modeling, formal thermal calculations (including dew-point analysis), and recommendations for performance improvement to help ensure that the fenestration products meet the intent of the project specifications.

SUSTAINABILITY SOLUTIONS

We're committed to improving product designs and manufacturing processes to eliminate waste, support recycling, and improve energy efficiency. We fully support participation in the LEED rating system and will work with you to develop a sustainable solution.



***“THE PLAYBOOK CHANGES ON EVERY
JOB — BUT EFCO IS CAPABLE OF
CHANGING THE PLAY.”***

— Jeff Appel, National Curtain Wall Sales Manager for EFCO

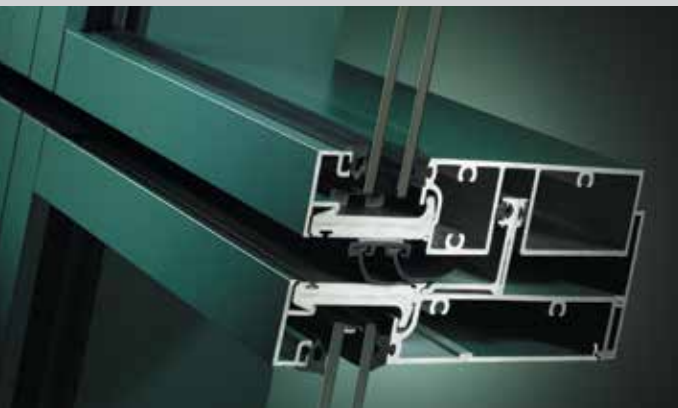
University of Tennessee Chattanooga Library / Chattanooga, TN / Architect: Derthick, Henley & Wilkerson Architects

EFCO® Products: 5600 Curtain Wall, E-Shade, and D300 Entrance Doors

SOLUTIONS

PRODUCT SOLUTIONS

EFCO Corporation has a comprehensive curtain wall product offering with the right combination of design and performance for your project. Whether you need a custom unitized system, a system that meets blast or impact requirements, or the superior thermal performance of our XTherm® family of products, EFCO has the solutions for your curtain wall needs.



Construction services

We provide additional support to help ensure timely delivery and product quality and to troubleshoot problems that may arise during installation.

TIMELINE MANAGEMENT

We'll help manage fenestration timelines to help keep your project running smoothly and on time.

SPECIAL PROJECTS MANAGEMENT TEAM

We have developed a team of special projects management experts who will oversee the building process for large-scale, custom, or complex building projects and unitized curtain wall applications.

ON-SITE SUPPORT

From product testing to reviewing installation options and performing quality control inspections, we can provide on-site support throughout the entire building process.

“THE PROJECT MANAGER WILL GET THE RIGHT PEOPLE TOGETHER TO FIGURE OUT THE RIGHT SOLUTION FOR YOUR PROJECT.”

— Erick Randles, Senior Special Projects Manager at EFCO

Post-construction services

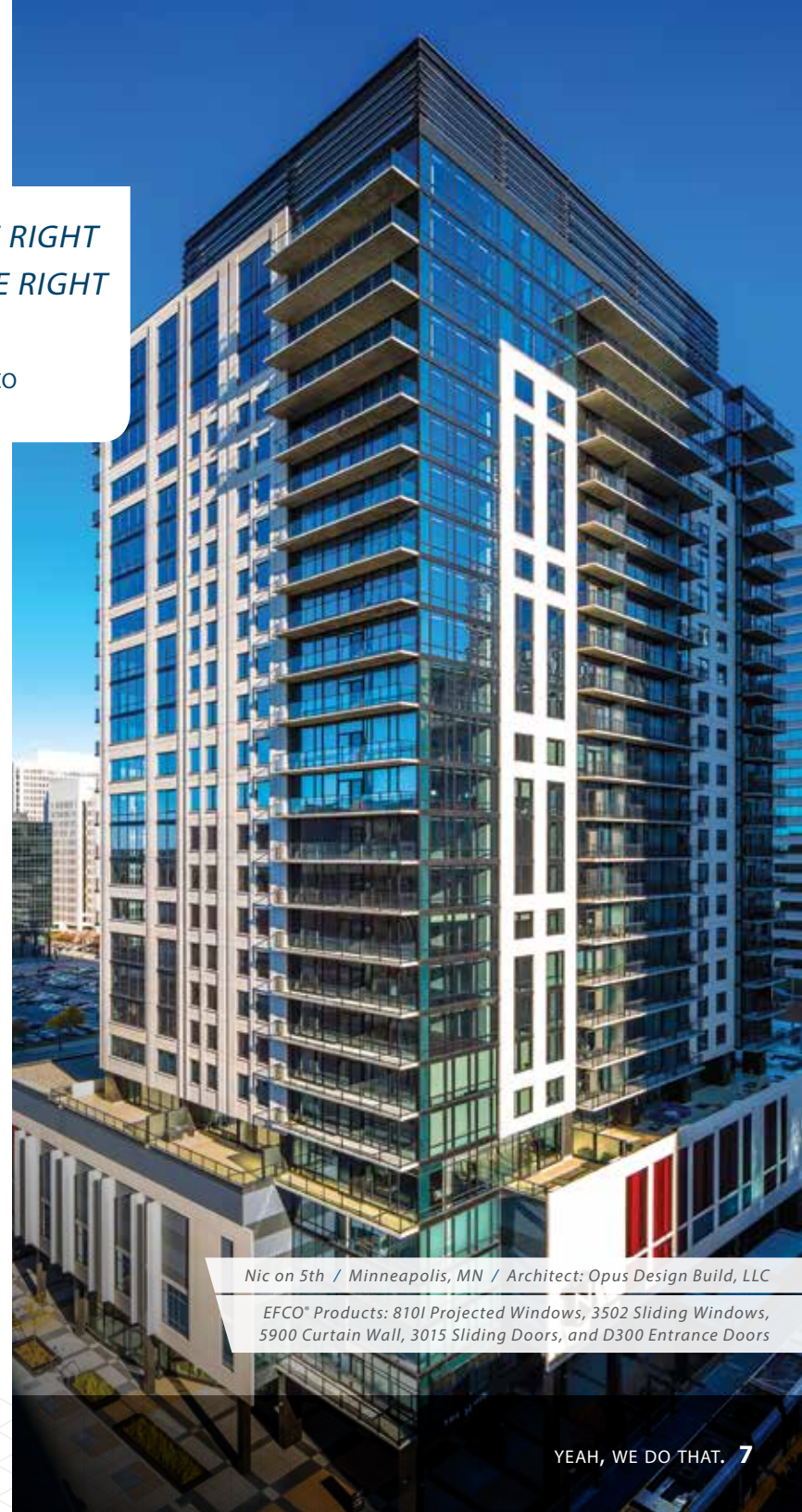
Even when your project is complete, we'll continue to provide long-term support to make sure our products are meeting the needs of the building owner and building occupants.

LONG-TERM SUPPORT

Buildings are designed to last, so it only makes sense for us to provide ongoing support to protect your investment.

DEDICATED REPRESENTATIVES

In the event that an issue does arise after completion, a dedicated EFCO field service representative will meet with you on-site to perform an inspection and recommend the right repair or replacement solution.



Nic on 5th / Minneapolis, MN / Architect: Opus Design Build, LLC

EFCO® Products: 8101 Projected Windows, 3502 Sliding Windows, 5900 Curtain Wall, 3015 Sliding Doors, and D300 Entrance Doors

RESULTS



With installation training provided by EFCO, the glazier was able to assemble the new curtain wall in front of the existing brick facade.

CASE STUDY

Gulfport Memorial Hospital

*Gulfport, MS / Architect: Blich Knevel / Construction Manager: Roy Anderson Corp. / Customer: Glass Incorporated
EFCO® Products: 8750XD Unitized Curtain Wall and 5600 Curtain Wall*

With a need for a high-end, impact-resistant, and energy-efficient solution, EFCO answered the call—keeping the project on-time and on-budget.

As one of the largest hospitals in the area (serving more than 80,000 patients in both urgent care and admissions each year) Gulfport Memorial Hospital saw the need to expand the existing facility while increasing natural lighting and improving energy efficiency.

Looking to replace the existing three stories of brick exterior walls with unitized curtain wall while adding four stories to the hospital, Roy Anderson Corp. sought EFCO's help to provide an innovative product solution. EFCO's 8750XD unitized curtain wall and 5600 curtain wall were ultimately chosen for their resilience, adaptability, and energy efficiency.

However, this large, fast-paced project posed some unique design and performance challenges for EFCO.

First, to meet the hurricane code requirements needed for the project, EFCO needed to ensure that the 8750XD curtain wall product was missile impact-resistant certified. These tests can take up to 15 weeks, but with the hospital's tight timeline, that wasn't going to work. By pulling in the right people at the right time, EFCO was able to get the 8750XD impact-certified in just 7 weeks.

Also, because a large section of the hospital was still up and running during the project, the curtain wall installation could not be done from the inside. Stepping up to the challenge, EFCO worked with the

glazier to determine the proper means and methods to install the new curtain wall from the outside of the building—completely wrapping the existing brick exterior which was torn down once the new curtain wall was in place.

To accommodate the curved rotunda, EFCO used a combination of 5600 curtain wall and smaller, unitized segments of 8750XD curtain wall—installing both products with the help of a custom corner application.

By providing innovative thinking and a custom design and installation approach, EFCO delivered an intuitive, high-end, durable, and energy-efficient solution on-time and on-budget.

PROJECT TIMELINE

Project Start	Request for 8750XD impact-resistant certification
2 months	Impact certification
3 months	Booked
6 months	Approvals
8 months	Shipped
10 months	Field-trained glaziers begin install
19 months	Install complete



Photo courtesy Roy Anderson Corp.

RESULTS



CASE STUDY

Huntsman Cancer Institute

Salt Lake City, UT / Architect: Architectural Nexus / Glazer: LCG Facades

EFCO® Products: 5600 Curtain Wall

Tasked with optimizing natural light and scenic views, EFCO provided a custom curtain wall solution for this one-of-a-kind medical center.

The Huntsman Cancer Institute (named for benefactor and cancer survivor, Jon Huntsman, Sr.) is a state-of-the-art cancer research center and hospital in Salt Lake City, Utah.

Four-star hotel-like accommodations and beautiful views of the surrounding Wasatch Mountain Range provide patients and their families and friends an environment of beauty, relaxation and hope. With a four-phase completion plan, the Huntsman Cancer Institute

is designed to look and feel different than any other hospital.

Wanting to provide a one-of-a-kind solution that optimized natural light and scenic views for patients while creating a tight building envelope, LCG Facades reached out to EFCO for their design assistance.

A serpentine design and close proximity to the Wasatch Mountain Range provided some additional logistical challenges in design and installation, but

EFCO came to the table with a solution — proposing the use of their 5600 curtain wall system.

To meet performance requirements and design intent, the 5600 curtain wall incorporated vertical and horizontal structural silicone glazing and captured glazing. Combined with a custom die and deep exterior cover caps, it created texture and architectural interest unique to the design of the Huntsman Cancer Institute.



RESULTS



TESTIMONIAL

Brooklyn Health Center

Brooklyn, NY / Architect: Francis Cauffman / General Contractor: Skanska USA Building Inc.
EFCO® Products: 8750XD Curtain Wall

An innovative design solution for a curved-glass mixed-use building in Brooklyn.

“Even with two design options for this project, every fenestration company we met with came in with a bid that was significantly higher than the budget. So we called in EFCO — since we already had a good working relationship with them — and contracted them for design assistance.

With some minor adjustments to the overall design and the proposed use of a more standardized curtain wall product customized for this specific project, EFCO provided a solution that not only met the budget, but stayed true to the architect’s original design intent.”

— Carrie Wettstein, General Contractor for Skanska USA Building Inc.



BY THE NUMBERS

56,000 square feet of unitized curtain wall

965 unitized panels — **927** of them unique

70,000 square feet of office space and
20,000 square feet of retail space

12-story (177-foot tall)
mixed-use building



**GENERAL HEADQUARTERS AND
MANUFACTURING FACILITY**

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Commercial expertise that expands possibilities and achieves your vision.

With more than 60 years of fenestration experience, EFCO has the expertise to help you realize your design vision. With in-house architectural, engineering, and project management support services, we provide project assistance from start to finish.