



CUSTOM FLOW PRODUCT CASE STUDY

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► PROJECT

University of Chicago
Graduate School of Business,
Hyde Park Center

► DESIGNED BY

Rafael Viñoly Architects
and Burt Hill Kosar
Rittelmann Associates

► PRICE REPRESENTATIVE

Brucker Company



University of Chicago Graduate School of Business, Hyde Park Center • Chicago, Illinois USA

► THE CHALLENGE

The new Hyde Park Center at the Chicago Graduate School of Business has consolidated faculty, staff, students, and support services under one roof for the first time since the 1950's. This dramatic 415,000 square foot state of the art facility was designed to create an environment that both reflects and encourages the notions of discussion, debate, and collaboration.

Hyde Park Center was conceived by architect Rafael Viñoly; with creative new spaces combining 21st century technology, with traditional Gothic and Prairie Style architectural elements. The facility unifies its neighboring historic buildings on the Gothic campus; Rockefeller Chapel, Frank Lloyd Wright's Robie House, Ida Noyes Hall and the University of Chicago Laboratory Schools.

Viñoly's flowing interior designs presented an unusual challenge with respect to air distribution. Eleven rooms in particular had been uniquely shaped, incorporating many curved surfaces. It was planned that the rooms would be outfitted with a combination of three basic Custom Flow units. As the construction began, engineers and HVAC systems provider, Brucker Company, realized that each of the eleven rooms would require a customized solution. It had become necessary to individually measure, design, and manufacture sections to meet this very distinctive application. As a result, decisions had to be made fast and the outcome had to be perfect in order to meet the rapidly approaching project deadline.

► THE SOLUTION

The Price team, working along side Brucker representative Jeff Kleven decided to propose a ‘best fit’ solution. This meant that eleven completely unique curved Custom Flow systems would have to be fabricated by the Price team. A staggering 208 individual segments would have to be produced to satisfy this unique application.

To help in understanding the dimensional requirements, the Price team had arranged with Brucker Company and their project contractor Climatemp to produce actual templates representing the soffit cutouts. These were shipped to the Winnipeg Manufacturing facility, where they were laid out to aid in creating detailed manufacturing drawings. Measurement concerns were immediately communicated to Brucker Company and Climatemp and it was decided that Winnipeg Customer Service Supervisor Troy Hicks would travel to Chicago to validate the field measurements.




Custom Flow sheet steel templates were laid out at Price Winnipeg, which facilitated accurate visualization and measurement prior to manufacturing & installation.

Onsite measurements were gathered after using a measuring template, which contained a constant chord length. With the help of Mitch Cieczczak of Brucker Company, all dimensional data was recorded and brought back to the Winnipeg facility. The upfront work was now complete between Brucker Company and Price, which solved the dimensional requirements of the customer. Price Winnipeg now had to mobilize quickly in order to meet an aggressive delivery timetable.



Some of the 208 Custom Flow segments that were needed to complete the ventilation in the lecture halls.

To complete this project, Winnipeg Manufacturing had to design and build all 208 segments within the necessary dimensional tolerance, and within a rapidly shrinking four week deadline. The Price team gathered the design and manufacturing groups together to devise a plan. The two groups developed a sectioning plan with a typical segment of 48" length as well as a tagging system which assisted the handling and packaging of the individual segments. This system would later aid in the orderly installation of all eleven systems. A large part of the success of this project is attributed to the collaboration efforts of the design and manufacturing groups, ultimately decreasing processing time for both groups, as well as the client.



Product Highlight: Adjusta Slot Custom Flow

- Available in curved or linear construction
- Units can be curved to follow ceilings or walls
- Curves can be made in a concave, convex or flat face
- Factory built plenums are also built curved to suit the ceiling member
- Pattern controllers maintain adjustability regardless of diffuser shape
- In-house rolling equipment eliminates delays in shipping

► THE RESULT

Ultimately, everyone who contributed to this project took part in the fusing of the majestic designs of architect Rafael Viñoly with Price's visually appealing curved Custom Flow diffuser products. This experience serves as solid proof that the technology behind our Custom Flow diffusers continue to enable Price to provide effective air distribution in the most unique applications.

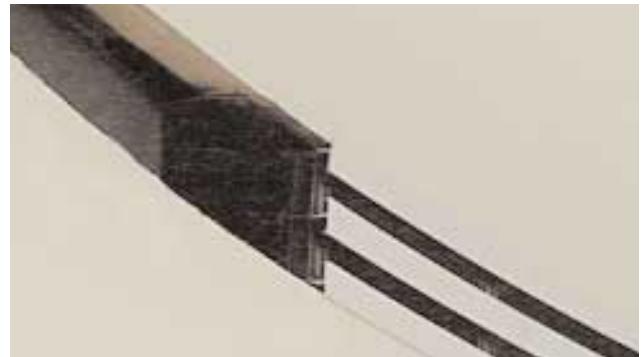
Brucker Company and the Price team were challenged in many ways by this project. Through effective communication they were able to overcome the challenges, and in the end provided a complete solution of products and services to the customer. Thank you to Brucker Company and the Price team for all of their efforts. Everyone involved made a major contribution to provide the Hyde Park Center with design complimentary Custom Flow Units. Price is proud to have been a part of this highly challenging project.

HYDE PARK CENTER PRODUCT LIST

Product	Description
AS210 - Adjusta Slot Custom Flow	<ul style="list-style-type: none"> • Available in a variety of frame styles & end configurations • Sliding pattern controller design • Extruded aluminum construction



Custom Flow diffuser being installed.



Closeup of Custom Flow diffuser during installation.



Custom Flow diffuser installed in the lecture theatre.



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