

# CONFORM® Case Study - Mitchell Plastics

640 Conrad Place - Mitchell Plastics Kitchener  
100 Washburn Drive - Ultra Manufacturing

Nuform Building Technologies Inc.  
100 Galcat Drive, Unit #2  
Woodbridge, Ontario, Canada  
L4L 0B9

Toll Free: 1-877-747-WALL (8255)  
Tel: 905-652-0001  
Fax: 905-652-0002  
Web: [www.nuformdirect.com](http://www.nuformdirect.com)



**640 Conrad Place - Mitchell Plastics Kitchener**  
**Area: 17,500 m<sup>2</sup> (188,400 ft<sup>2</sup>)**  
**Building Usage: Light Industrial**  
**Building Type: CONFORM™**  
**Year Built: 2003**

**100 Washburn Drive**  
**Area: 15,800 m<sup>2</sup> (~170,000 ft<sup>2</sup>)**  
**Building Usage: Light Industrial**  
**Building Type: Block & Insulated Metal Panel**  
**Year Built: 2000**



## CONFORM® offers superior thermal performance...

640 Conrad Place, Kitchener, ON and 100 Washburn Drive, Waterloo, ON are two manufacturing facilities owned and operated by Mitchell Plastics. The facility located at 640 Conrad is constructed entirely with CONFORM CF8i, while the facility at 100 Washburn is constructed using 8" thick walls comprised of CMU and insulated metal panelling. Both buildings have similar R-20 roof structures.

In 2010, the larger CONFORM-constructed building (640 Conrad Place) outperformed its smaller block and insulated metal panel counterpart, by achieving an overall 10% lower hydro consumption. The same savings were reflected in 2011 as well, showcasing that the larger CONFORM building required approximately 9.4% less hydro to operate than the smaller counterpart. Between all the utilities combined (hydro, water and gas) 640 Conrad had a 13% overall lower consumption than the smaller 100 Washburn facility.

CONFORM offers many features that produce excellent thermal advantages over traditional building assemblies. CONFORM formwork provides for a wall that is void of any thermal bridging, reducing heat transmissions between the interior and exterior environments. In some climates, the thermal mass effect of the CONFORM wall allows the wall to achieve effective R-values up to twice that of a framed wall insulated to the same level - providing superior thermal performance without the need for further insulation. On the interior, CONFORM's bright and reflective surface also increases the effectiveness of any interior lighting, reducing the total number of lights required.



April 2012

NUFORM and CONFORM ARE REGISTERED TRADEMARKS OF NUFORM BUILDING TECHNOLOGIES INC.