

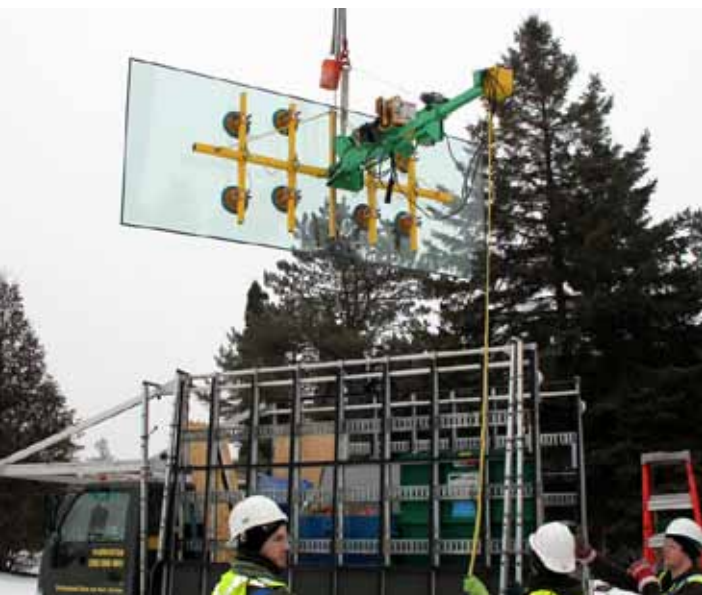
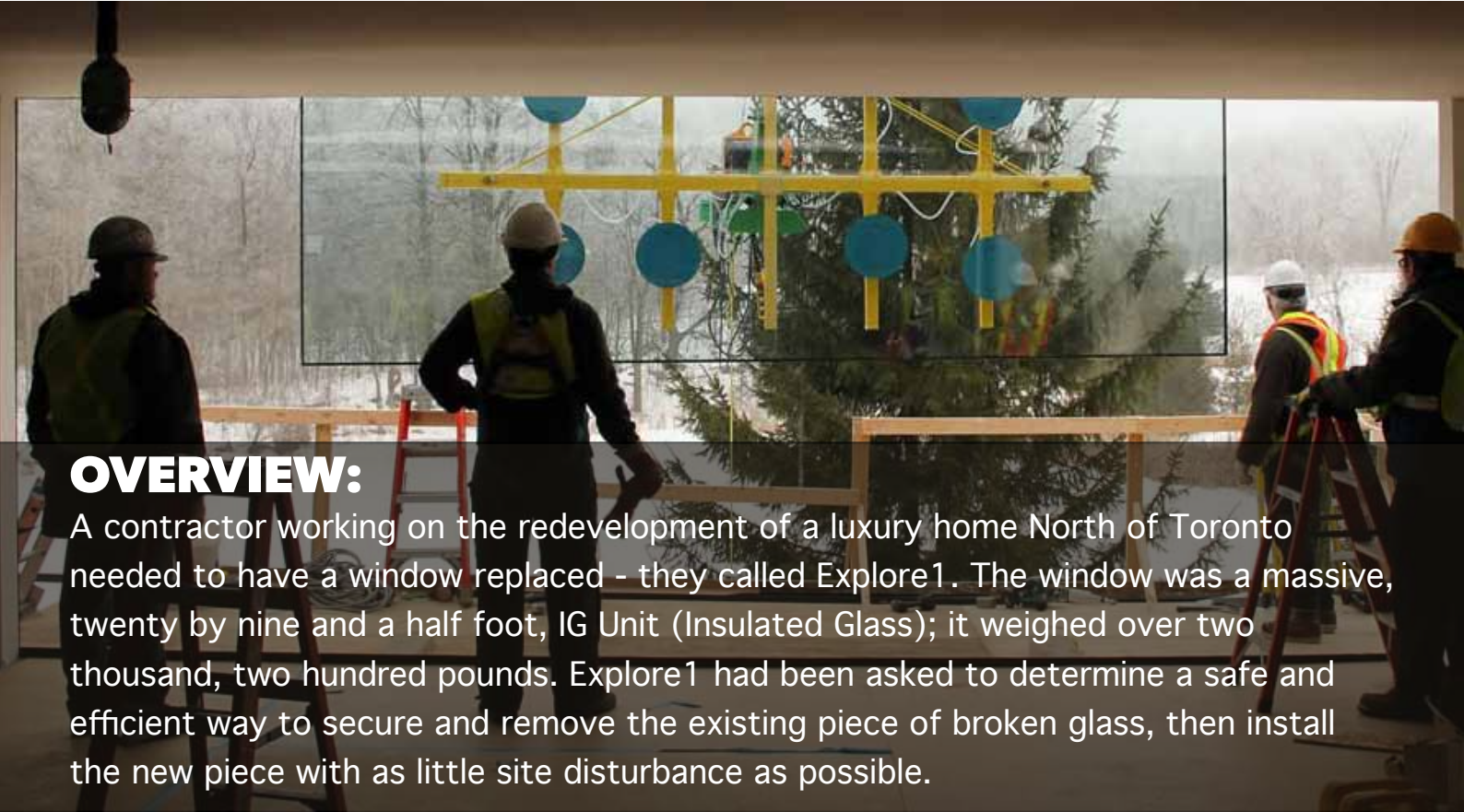


**DOOR + GLASS + METAL**  
**905-669-9911**

## MINIMIZING RISK WITH MASSIVE GLASS

### OVERVIEW:

A contractor working on the redevelopment of a luxury home North of Toronto needed to have a window replaced - they called Explore1. The window was a massive, twenty by nine and a half foot, IG Unit (Insulated Glass); it weighed over two thousand, two hundred pounds. Explore1 had been asked to determine a safe and efficient way to secure and remove the existing piece of broken glass, then install the new piece with as little site disturbance as possible.



Contracting  
Consulting  
Jumbo Glass  
Massive IG Units

Explore1.ca  
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### **SOLUTION:**

With all of our jobs, we begin by assessing the scenario limitations, our capabilities and the risks. As a crane rental was required to complete this task, we wanted to minimize cost to the client. We modelled the install to help visualize the process, incorporating the site restrictions to help ensure a smooth, cost effective installation.

To complete the job in the most effective way, we elected to use our counterbalance lifter. Explore1 developed the world's first counterbalance suction cup lifter back in 2003 and has been using and refining it for the past 12 years. The importance of this lifter for installing jumbo glass cannot be understated. For this job, we were able to pick up and float the damaged unit out of the frame, placing it next to the disposal point to help save human traffic around the property. We then picked up and gently placed the new IG unit in without issue.

What is important to know when installing large tempered glass you do not want it to touch anything, with the exception of the installer's tools and the setting blocks. If you are not careful during installation, you risk hitting the frame, the ground and any other hard object that might cause it to shatter. With our counterbalance lifter, we are able to precisely and carefully place the large glass in the opening, minimizing the risk of breakage. Absolutely critical because if you shatter a piece of glass on any suction cups lifter, it could release and cause injury.

Within this job site we were able to have the glass installed in an efficient manner. We didn't have to fight with any aspect of the removal or installation. It was executed safely, to our own and our clients satisfaction.

### **HIGHLIGHTS:**

Massive Insulated Glass Unit measuring 20' x 9.5'

IG Unit weighed approximately 2,200lbs or 1,000kg

Installation was modeled to review site limitations and ensure efficiency for client

Explore1.ca used their industry leading counterbalance lifter that they engineered and built

Counterbalance lifter minimizes risk to the crew installing the glass and client property

Removal of broken unit and replacement installed in minimal time

#### Client:

DUFFY & ASSOCIATES DESIGN  
BUILD LIMITED

#### Architect:

PARTISANS

#### Location:

Toronto, Canada

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