

The image shows the interior of a building during a deconstruction project. The ceiling is exposed, showing a network of wooden joists and rafters. A large, discolored light fixture hangs from the ceiling. The walls are made of vertical wooden studs, with some insulation visible. In the foreground, there is a large, messy pile of yellowish-brown insulation material. The overall scene is one of active demolition or dismantling.

OUROBOROS DECONSTRUCTION

THE PROBLEM



OUROBOROS

An ancient symbol representing the eternal cycle of destruction and re-creation, the Ouroboros has been used to signify renewal throughout history. It is the perfect symbol of what the company does. Through the careful dismantling of buildings we recover valuable materials and give them new life.



We aim to change the way demolition is conducted and salvaged materials are perceived.



OUR MISSION

DECONSTRUCTION



Ouroboros Deconstruction



MATERIAL



RECLAMATION AUDITS



Product ID	Images	Product Name	Material	Quantity In...	Dimensions	Location insitu	Audit quality
DECON PROJECT							
YMCA North York				Count 17	Sum 295,395		
1		Exterior- Interlock Pavers	Brick	80,000	9"x4 1/2" Surface tot=	exterior ground cover	Used - Good
2		Exterior-Pergola Beams	Concrete		28"x20" Total lenght=?	exterior-decorative	Used - Fair
3		Exterior-Pergola Columns	Concrete	18	Diameter=10" height=?	exterior-decorative	Used - Fair
4		Steel Rafters	Metal	9	14 1/2"x5 1/2" lenght=?	interior-structure	Used - Good
5		Steel Purlins	Metal	5	14"x6" Lenght=?	interior-structure	Used - Good
6		Roof sheets	Metal		2'x5'5" Surface roof=	interior-structure	Used - Good
7		Lobby Light Fixtures	Glass Metal	12	Various	interior-fixture	Used - Good
8		Resilient Flooring	Rubber		24"x24 Surface tot=	interior-finishes	Used - Good
9		Glass Block	Glass	254	7 1/2"x7 1/2"	interior-finishes	Used - Like New
10		Gymnasium-Sports Flooring	Wood		1100 Square Meters	interior-finishes	Used - Good
11		Gymnasium Roof Structure	Metal	10	64'	interior-structure	Used - Good
12		Accoustic Panels	Foam	30	5'x8'	interior-fixture	Used - Good
13		Steel Beams + Columns running track-...	Metal	47	columns: 116"x5"x5" beams: 1..	interior-structure	Used - Good
14		Brick Cladding	Brick	215,000	3.625" x 2.25" x 7.625"	exterior-finish	Used - Good
15		Light fixtures gym	Glass Metal	8	30'	interior-fixture	Used - Like New
16		Light fixtures gym	Glass Metal	2	20'	interior-fixture	Used - Like New

NORTH YORK YMCA



DECONSTRUCTION & RECLAMATION
AUDIT

Y M C A N O R T H Y O R K

Project Overview

Through on and offsite reuse and other diversion tactics this project has the ability to make an incredible impact. Reusing these materials is equivalent to the greenhouse gas emissions from driving 1,262 gasoline-powered passenger vehicles for one year!

Item	Material	Location	Total Emissions (kg CO2e)
<i>Pergola Beam</i>	Concrete	Exterior Entry	17,673.8
<i>Pergola Columns</i>	Concrete	Exterior Entry	1,284.1
<i>Interlock Pavers</i>	Concrete	Exterior Entry	19,200.0
<i>Sport Flooring</i>	Wood	Gymnasium	826.2
<i>Roof Structure-Rafters</i>	Steel	Interior Main Entry	770,796.0
<i>Roof Structure- Purlins</i>	Steel	Interior Main Entry	2,854,800.0
<i>Roof Structure- Roofing Sheet</i>	Metal	Interior Main Entry	17,595.0
<i>Resilient Flooring</i>	Rubber	Gym, Weight Room	17,160.0
<i>Glass Blocks</i>	Glass	Basement Lobby	2,622.4
<i>Rafters running track</i>	Steel	Running Track-Third Floor	165,483.2
<i>Columns running track</i>	Steel	Running Track-Third Floor	165,483.2
<i>Roof Structure Trusses</i>	Steel	Gymnasium	1,115,400.0
<i>Brick Cladding</i>	Brick	Interior/Exterior Throughout	155,015.0
<i>Acoustic Panel</i>	Foam/Wood/Fabric	Weight Room/Gym	Unknown
<i>Wall Base</i>	Vinyl	Throughout	357.0
Total Emissions (kg CO2e)			5,303,696.1



REUSE PATHWAYS

REUSE/RE-GRADED LUMBER



REPROCESS/PRODUCTS



REPROCESS/ART



Toronto WinterStations, Lake Ontario
University of Waterloo



REPROCESS/RECYCLE



KEY MARKET CHALLENGES



Infrastructure

Warehousing Space

Storage space and light industrial warehouses are in short supply and prohibitively expensive. Locations in urban areas are even more difficult to obtain.

Resources

Recycling Partners

When items cannot be salvaged, we look for recycling partners to help find a secondary market. Geographic regions have different standards and recycling can vary depending on the price of the material.

Incentives

Level Playing Field

Without bylaws or mandates deconstruction will remain a selective service. Incentives to help offset costs or timelines would help push this practice to mainstream.

Perception

Material Reuse

Salvage material needs a rebrand, moving away from perceptions of rustic, shabby chic, and dirty material that should come at a discount. Instead we need to champion it as a resource with a cultural significance and environmental benefits.



CONTACT

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Ouroboros Deconstruction