BRICK RECYC

RECLAIMING BRICKS : PROFITABLY AND SUSTAINABLY

BRICK RECYC :
Sustainable. Economic. Obvious.

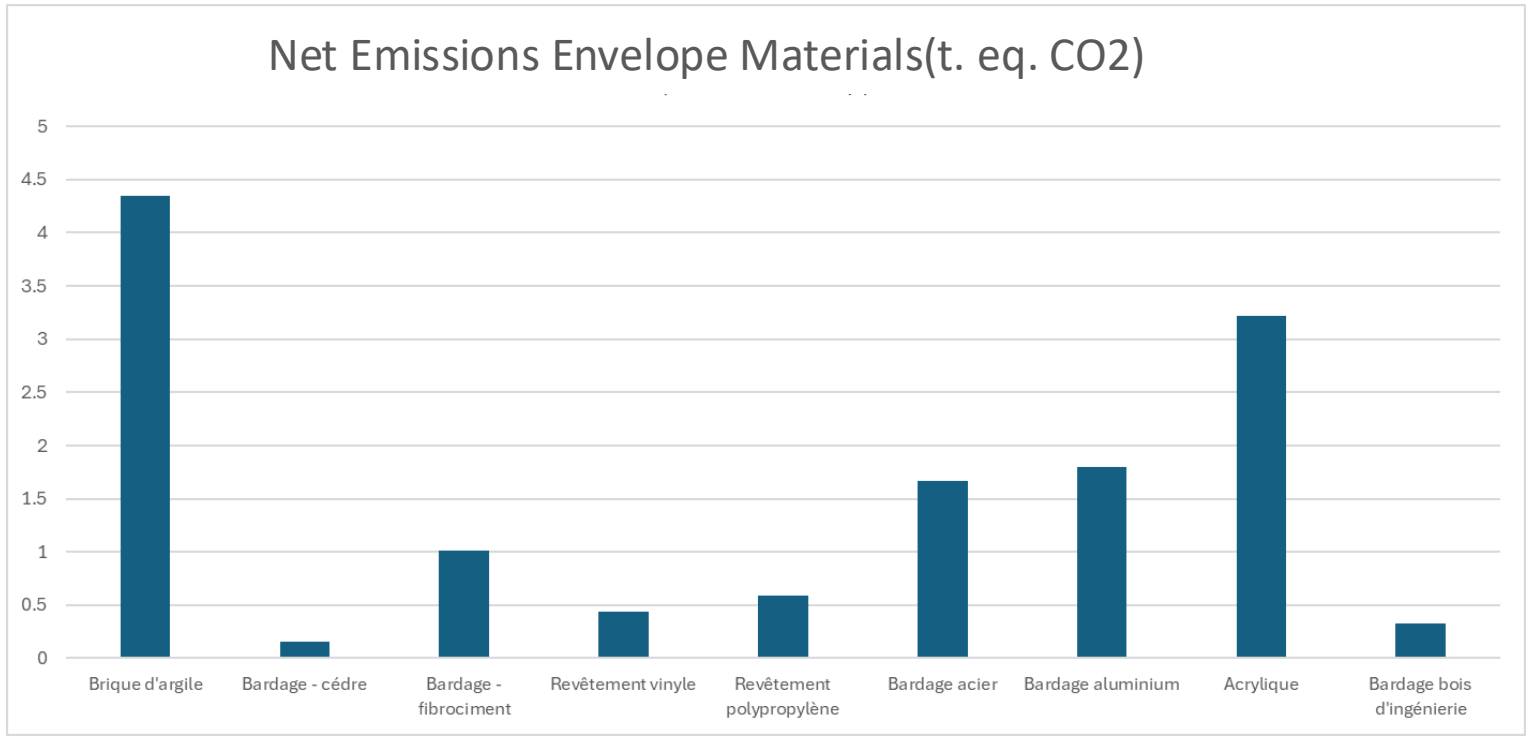
CRITERIA	1. REPLACE (NEW BRICKS)	2. RESTORE (MANUALLY)	3. BRIQUE RECYC
Time ⏱️	Quick and easy	Long et demotivating	**70%** faster vs manual
Cost 💰📈	High	**35%** more expensive vs new	Up to **50%** cheaper vs new
Workforce 👷		Skilled labor	Easy to use
GHG 🌱	High GHG emissions	Low GHG emissions	**80%** less GHG emissions
Quality 🧱	Loss of heritage value	Preserve heritage – 80% bricks saved	Preserve the heritage – **98%** bricks saved

ENVIRONMENTAL IMPACT OF BRICK

11% of the world's GHGs come from building materials

40 % from cement, clinker, clay and bricks

Carbon footprint of construction sector set to double by 2025



*Sources : World Green Building Council, *Bringing embodied carbon upfront,* (2019) ; Recyc-Québec. *Bilan de la gestion des matières résiduelles au Québec.* (2021) ; Ressources naturelles Canada, *Estimateur d'émissions de carbone des matériaux (E2CM),* (2024); Raphael Lopoukhine, *Developing a circular building materials system and fostering innovation from construction, demolition and renovation waste*, (2024) ; Communications Earth & Environnement, *Carbon footprint of the construction sector is projected to double by 2050 globally, (2025)*

BRICK RECYC

THE INNOVATIVE SOLUTION

- **3 to 5 times faster than manual cleaning methods**
- No percusion – preserves the integrity of the brick
- **95% lesse broken bricks**
- Cleans even hard and sticky mortars
- Adjustable to all bricks

- Electrical
- Mobile
- Train a user in 30 minutes
- Operational in 1 hour
- Ergonomic and safe
- Noise Control (74 Db)
- Touch interface for data collectio

TECHNICAL SHEET

DIMENSIONS BR-V3000

OVERALL DIMENSIONS
Length 51'' / 129,54 cm
Width 48'' / 121,92 cm
Height 61'' / 154,94 cm

MINIMAL BRICK FORMAT
Length 4'' / 10,16 cm
Width 1,8'' / 4,57 cm
Height 3'' / 7,62 cm

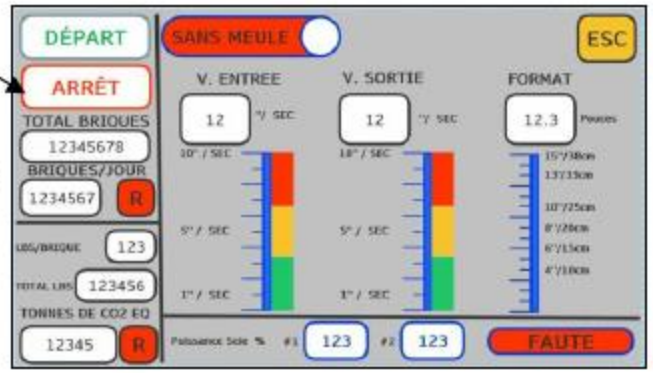
MAXIMAL BRICK FORMAT
Length 12'' / 30,48 cm
Width 5'' / 12,70 cm
Height 5'' / 12,70 cm

MACHINE WEIGHT
1507 **Lbs** / 684 **Kg**

ELECTRICAL SPECIFICATIONS

CALIFORNIA PLUG style twist-lock plug
model: X1071 - manufacturer model: CS6365C

Single-phase
Operating current : 50 **Amp**
Operating voltage : 125 à 250**V**
50**Hz**-60**Hz**



BRICK RECYC

THE INNOVATIVE SOLUTION

TECHNICAL SHEET

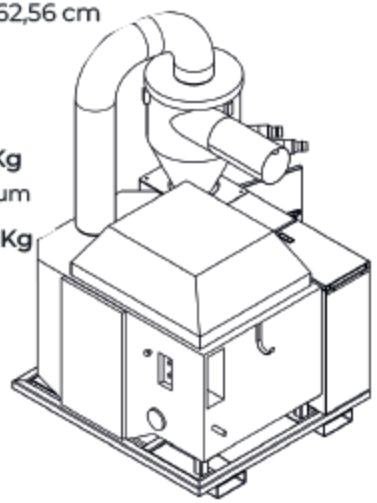
DIMENSIONS

Length 53" / 134,62 cm
Depth 48" / 121,92 cm
Height 64" / 162,56 cm

WEIGHT

475 **Lbs** / 215 **Kg**
silica dust vaccum

950 **Lbs** / 430 **Kg**
with support



SPECIFICATIONS

- Optional outlet adapters for most tools
- Power supply 230V - 240V
  60Hz / 50 AMP, 1PH
- Dust collection drawer
- Lightweight corrosion-proof housing
- Filtration process in 3 steps with 97% efficiency - 0.3 micron
- Airflow: 1200 CFM
- Sound level: 74 dB (A)

BRICK RECYC

THE COST-EFFECTIVE SOLUTION

Major restoration of the elementary school in Montreal (2023-2024)

- Total Project Value: $27.4M
- Masonry contract value: $2.45 million
- The contract specified the deconstruction, cleaning, and reinstallation of 3,538 sq. ft. of façade.
- Sticky mortar that is difficult to clean

	MANUALLY	BRICK RECYC
Bricks to clean	23 000	23 000
Bricks / working hours	30	102
Total hours worked	767	226
Broken bricks %	20%	2%
Total cost	68 720$	25 200$

If new bricks had been used:

Cost ~$41,300 and 18 t eq. additional CO2 emissions

PROJECT SHOWCASE

RAM CONSTRUCTION SITE (DETROIT 2023-2024)

- First Cadillac assembly line transformed into 151 apartments.
- Different models of bricks
- Cleaned with Brick Recyc Machine
- 1000 – 1500 bricks cleaned/day
- 2 months
- None transport

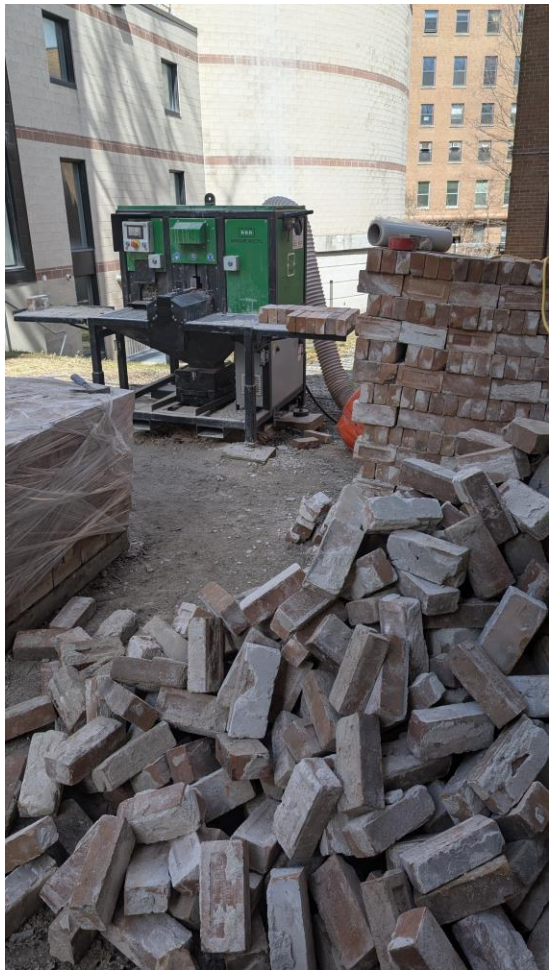
PROJECT SHOWCASE

FAÇADE RESTORATION (VERDUN 2025)

- Apartment house
- Facade completed with reused bricks
- Restoring the heritage aspect of the building

PROJECT SHOWCASE

UPPER WALL RENOVATION (MONTREAL 2025)

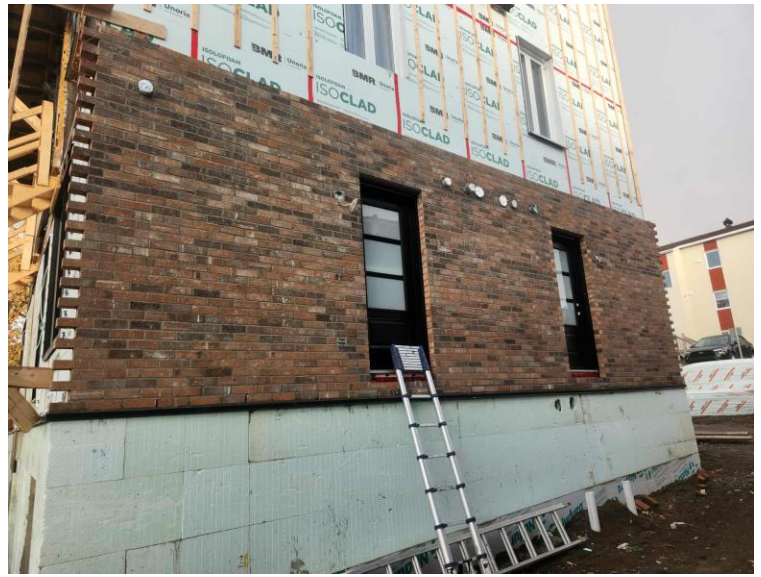


- 2 months rental
- Multi-unit building
- Difficult access to the site, muddy, narrow alley
- Enhancement of the upper part of the wall
- 20,000 bricks cleaned
- The cost of cleaning - $1.8/brick

PROJECT SHOWCASE

BUILDING CONVERSION (RIMOUSKI 2025)

- 2 months rental
- 12 000 bricks cleaned off-site
- Collaboration between development company, contractor and local NPO.
- Eco leader grant



QUESTIONS

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