



PROVIDING
TRANSPORT
SOLUTIONS FOR
PERISHABLE GOODS
SINCE 1967



Lamberet France

- A European leader covering the whole range, from small commercial vehicles to semi-trailers
- Winner of the Technical Innovation Prize at Solutrans 2011
- Integrated R&D department, with tailor made solutions for all professions





Quality assurance

- Production site is certified ISO9001/2000
- All the production is ATP compatible (Agreement on the Transportation of Perishable goods)
- Lamberet Asia puts strong emphasis on quality and customer service





Lamberet Asia

- Established as a direct French investment in Asia 10 years ago
- Wholly owned subsidiaries, with two manufacturing facilities, in Vietnam and Thailand
- Already exported to 12 countries
- Now considering expansion to 2 new destinations

Lamberet Thailand





LAMBERET





Truck bodies

- All sizes, from 3 to 9 meters
- Full GRP body with PU-foam insulation
- Light weight and strong structure
- 4 wall thicknesses: 39, 57, 85, 105 mm
- Barn doors or shutter doors, side doors
- 4 different types of floors
- Warranty 2 years









Some Lamberet Fleets



Trailers and semi-trailers

- Complete range of full and semi-trailers
- Specs can be suited to customer needs
- Body length 6.5 to 13.6 meters
- Hi-tensile steel structure
- Light weight
- Suspension: leaf springs or air suspension
- Brakes: Optional EBS, EBD
- Tyres: radial or bias







FreeGo: a new concept

- Best looking pick-up in the market
- International brand name
- Aluminum rear frame
- Best surface for communication
- Easiest opening and closing
- Integrated air flow
- Low weight and high performance





Hire Sales

Truck Sales



Why hire a
refrigerated truck?
1800 SCULLY



HILUX
2.5L 4x2
4350E







FreeGo: the reference

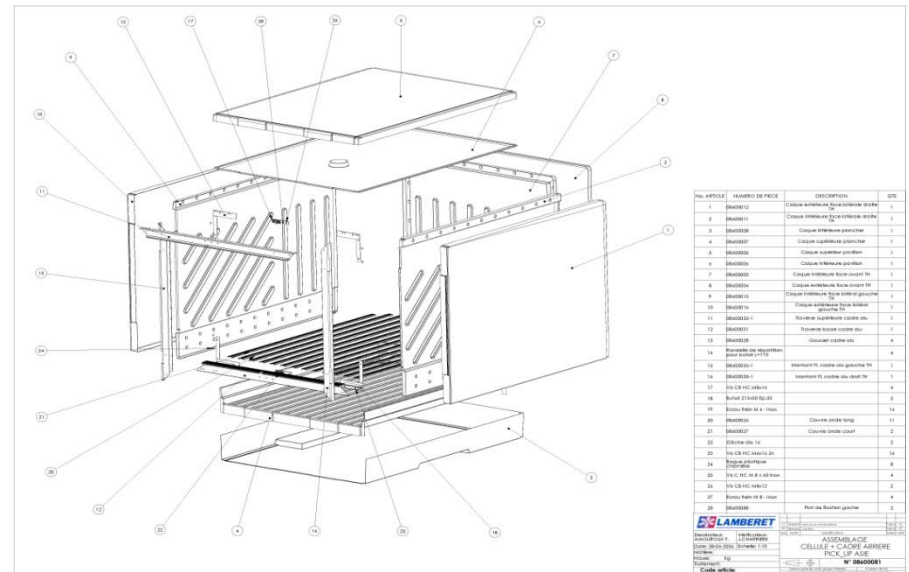
- Already the preferred pick-up reefer body
Chosen by the best logistic companies
and the most demanding customers.



What makes a good reefer truck ?

There are 2 main factors:

- Insulation capacity of core material
- Construction of the body





Insulation capacity

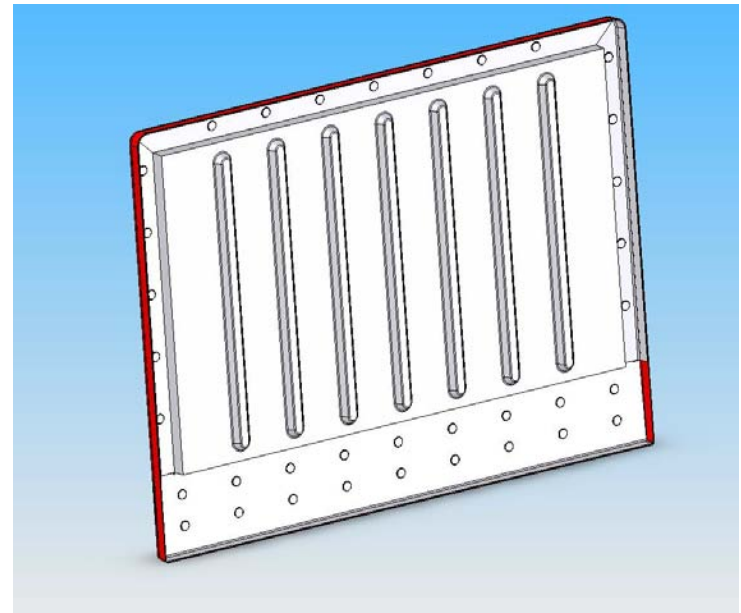
R-values per 25 mm given in SI

Average (range) Material m²·K/(W·in)

Vacuum insulated panel	7.04 (5.28–8.8)
Silica aerogel	1.76
<i>Polyurethane rigid panel (HCFC expanded) initial</i>	<i>1.32 (1.23 - 1.41)</i>
<i>Polyurethane rigid panel (HCFC) aged 5–10 years</i>	<i>1.10</i>
Polyurethane rigid panel (pentane expanded) initial	1.20
Polyurethane rigid panel (pentane) aged 5–10 years	0.97
Polyisocyanurate spray foam	1.11 (0.76 - 1.46)
Closed-cell polyurethane spray foam	1.05 (0.97 - 1.15)
Urea-formaldehyde panels	0.97 (0.88 – 1.06)
Extruded expanded polystyrene (XPS) high-density	0.91 (0.88 – 0.95)
Polystyrene board	0.88
Extruded expanded polystyrene (XPS) low-density	0.72 (0.63 – 0.82)
Molded expanded polystyrene (EPS) high-density	0.7
Molded expanded polystyrene (EPS) low-density	0.65

Body construction rules

- No thermal bridges, no metal in the box structure
- Constant insulation thickness
- Complex assembly nodes and joining surfaces between panels
- 5 lips seals on doors

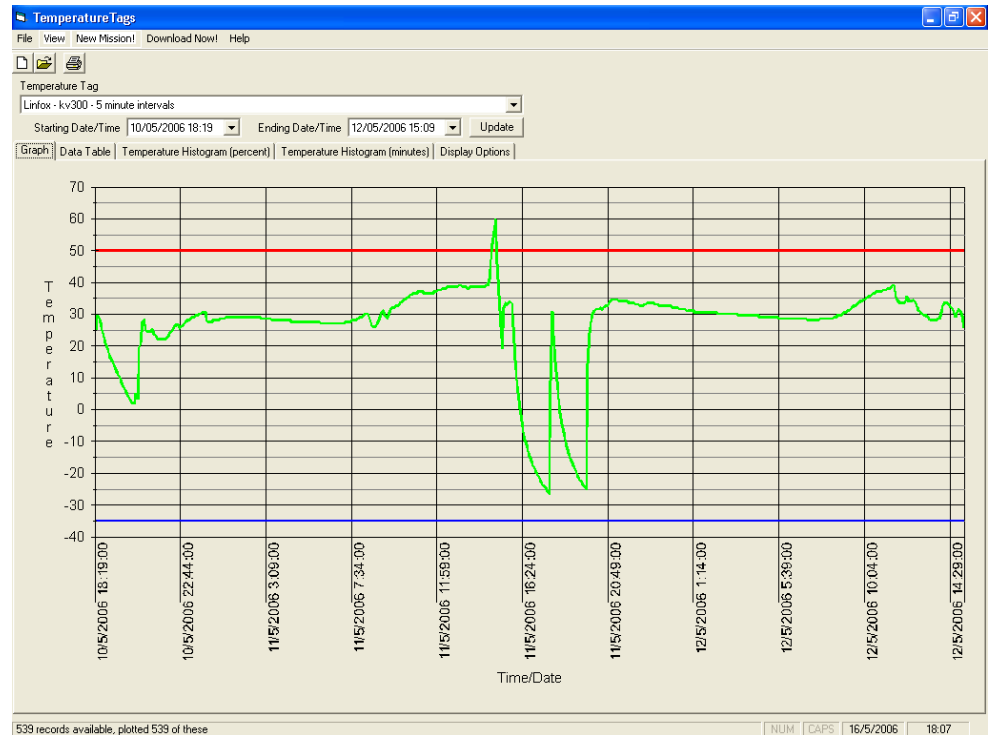




How to measure performance

There are 2 main ways:

- See how **fast** temperature goes **down** when the unit is **on**
- See how **slow** temperature goes **up** when the unit is **off**





Pull-down on FreeGo





Conservation of cold

Experiment done by Dutchmill:

- 3 trucks, same size, empty
- Pull down to 2°C by ambient temperature 41 °C
- Check how long it takes to go up to 15°C



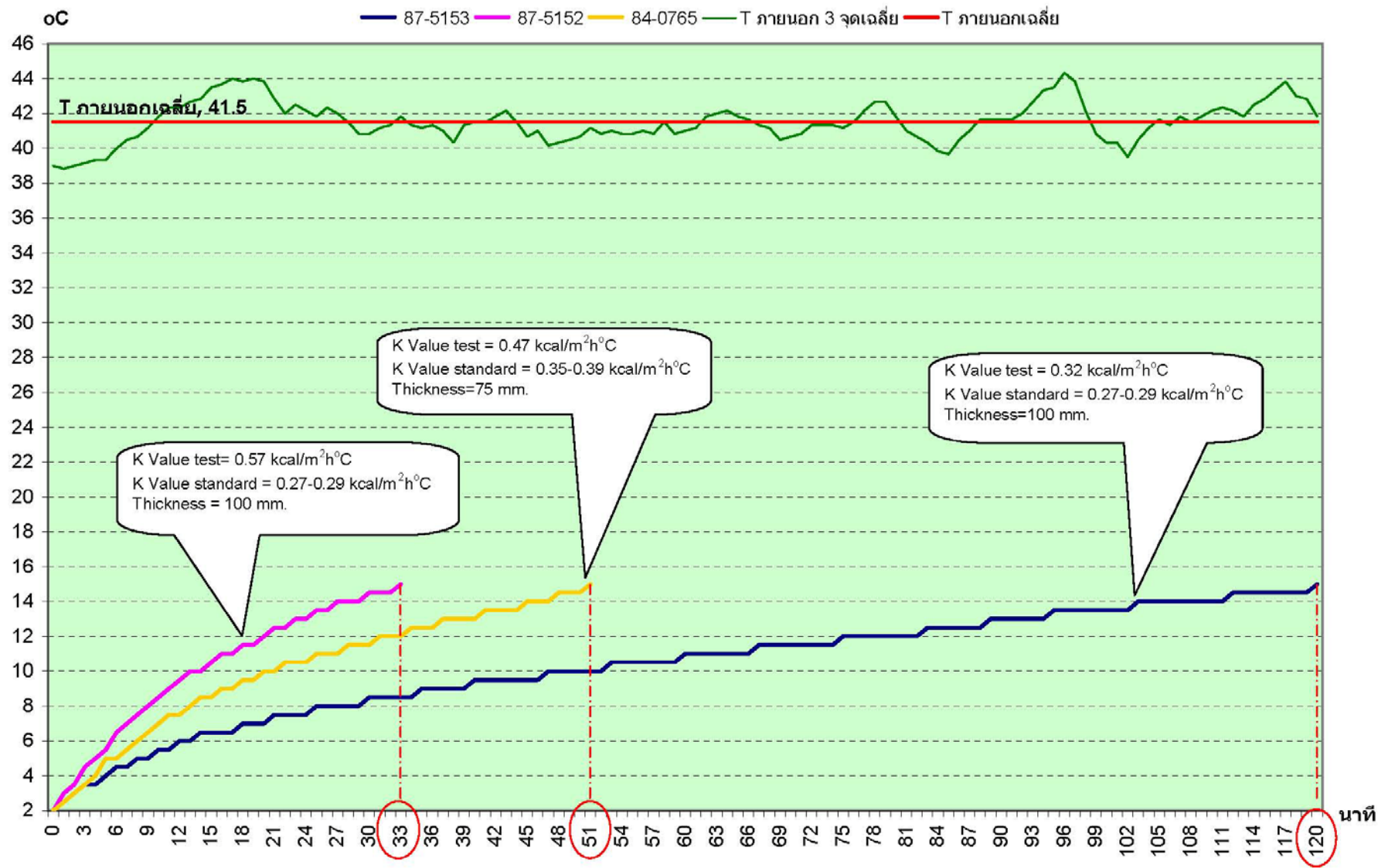


Results

- Lamberet, 100 mm, 2 years old: 120 minutes
Calculation of K factor: 0.32 (below 0.4)
- Other brand, 100 mm, 2 years old: 33 minutes
Calculation of K factor: 0.57
- Other brand, 75 mm, 14 years old: 51 minutes
Calculation of K factor: 0.47

This indicates poor construction on truck number 2, even if foam is thicker than an older truck from the same brand.

การทดสอบการรักษาอุณหภูมิห้องเป็นรอบรทุก 10 ล้อ



Thank you

