



Environmental product declaration

Carat
20090513

The Product

This environmental product declaration refers to Lindab's Carat chilled beam. This product is manufactured at Lindab's factory in Farum Denmark.

Manufacturing

Carat is based on Lindab Climate's strips. The strips consist of two aluminium bands, rolled together, with a copper pipe in between. The rolling procedure ensures that the aluminium is metallurgically joined to the copper pipe. The strips are then folded into a shape of serrated elements where all the surfaces are active. At the ends, copper connections are then soldered in place, selected for the correct pressure drop and flow (10, 12, 15 or 22 mm).

The product is powder coated in the colour requested. Finally, the product is packaged and delivered to the customer by truck.

A 4 meters Carat H-31 is made of:

				% by wt
Aluminium:				
Strips	GA 5050-02	3,75 Kg		55,1%
Cross Bracket	SS 4104-06	0,36 Kg		5,3%
Copper				
Strips	SS 5015-02	1,57 Kg		23,1%
Connection Pipe	SS 5015-02	0,83 Kg		12,2%
Solder:				
Spelter solder (Sn97Ag3)	EN 29453	< 1,5 g		
Hard solder (Cu90Ag10)		< 1,5 g		
Paint:				
Powder Coating	Epoxi-polyester	0,23 Kg		3,4%
Packaging:				
Pallet	Wood			
Cling wrap				
Cellular plastic	Polyethylene			
Screws	Steel	< 40 g		
Blind rivets	Aluminium	< 50 g		
Annat	Aluminium	0,10 Kg		1,5%
TOT :		6,8 Kg		

Use

Carat is used for spaces which require cooling. During operation, the product does not produce any demonstrable chemical emissions. Carat is maintenance free, apart from normal cleaning. The product has a technical life of at least 25 years.

Recycling

Lindab Climate has a well-functioning recycling system. The company accepts its own products in return when they are no longer useful, because nearly all the materials can be recycled. Please contact Lindab Climate for instructions with regard to return transport and packaging.