

# TYPE APPROVAL CERTIFICATE 1358/88

With regulations for production control in accordance with § 18-20 of the Swedish Technical Properties Requirements for Structures Act (1994:847), etc, BVL

**KEYWORDS:** AIR TREATMENT INSTALLATIONS  
Ventilation ducts and parts of ducts

**BSAB QL**

## LINDAB Safe<sup>®</sup> Ventilation ducts and duct parts

|   |  |   |       |                           |           |       |  |                     |       |  |
|---|--|---|-------|---------------------------|-----------|-------|--|---------------------|-------|--|
| Holder                                    | Lindab Ventilation AB, 269 82 Båstad, Sweden, tel: int. +(0)431 - 850 00, fax: int. + (0)431 - 853 25.   |   |       |                           |           |       |  |                     |       |  |
| Product                                   | Round helical locked sheet metal ducts and parts of ducts, manufactured from galvanized sheet steel (Z275). If the application requires a higher corrosive resistance the ducts can be produced in other materials. The parts are put together on the principle of male and female parts. The seal is created by using a ring-shaped sealing of the double-lip type.   |   |       |                           |           |       |  |                     |       |  |
| Intended use                              | Distribution of air.   |   |       |                           |           |       |  |                     |       |  |
| Trade name                                | LINDABSafe <sup>®</sup> .  |   |       |                           |           |       |  |                     |       |  |
| Approval                                  | <p>The product meets the requirements in 2 § 2 and 3 BVL, with respect to and on the conditions stated in this approval, and is therefore approved with regard to the requirements in the following sections of the Building Regulations of the National Board of Housing, Building and Planning (<i>BBR</i>).</p> <table><tr><td>Material for air management installations</td><td>5:651</td><td>1<sup>st</sup> paragraph</td></tr><tr><td>Emissions</td><td>6:221</td><td></td></tr><tr><td>Material and design</td><td>6:624</td><td></td></tr></table> <p>The ducts fulfill the requirements of seal class D according to VVS AMA 98, 57 Ventilation System.</p> | Material for air management installations | 5:651 | 1 <sup>st</sup> paragraph | Emissions | 6:221 |  | Material and design | 6:624 |  |
| Material for air management installations | 5:651  | 1 <sup>st</sup> paragraph                 |       |                           |           |       |  |                     |       |  |
| Emissions                                 | 6:221  |   |       |                           |           |       |  |                     |       |  |
| Material and design                       | 6:624  |   |       |                           |           |       |  |                     |       |  |
| Associated documents                      | Assembly instructions for LINDABSafe <sup>®</sup> , dated May 1998.  |   |       |                           |           |       |  |                     |       |  |
| Control                                   | Production control is to be performed in accordance with the control instructions dated 13 August 1997. Dnr 310-94-0466.   |   |       |                           |           |       |  |                     |       |  |

- Control (continued.) When the client performs inspection at the building site, he shall check the markings to ensure that the correct products have been supplied, and that the design and method of fitting agree with the appurtenant documents. He should also check that the product is accompanied by a manufacturing assurance, which certifies that the product has been manufactured in accordance with the documents on which this certificate is based.
- Manufacturer The regulations governing production control cover the following places of manufacture:  
Lindab Ventilation AB, Båstad (G)  
Lindab Nord AB, Box 66, 936 00 Boliden (B)  
Lindab Ventilation AB, Box 13011, 151 13 Södertälje (S)
- Marking The product is stamped or labelled with the following marking: the description of the place of manufacture (**G, B or S**), the registered trademark of the Board (Boverket) (**†**) and the type approval certificate number (**1358/88**)
- The product is also marked with:  
SITAC's accreditation number **SITAC 1422**  
The type designation of the product **LINDABSafe®**  
Inspection body **SP**
- Basis for approval Report on sealing no. 97E2 1854 A and strength report no. 97B1,0656rev, both from the Swedish National Testing and Research Institute (SP).  
Report F207479 from the monitoring manufacturing supervisors.
- Comments The product meets all the requirements under SS 827209 on a test according to SS 827208. In the strength test, externally insulated (EI60) ducts were exposed to load.
- This certificate replaces the earlier certificate with the same number dated 11 June 2001, with Proj.No T001088.
- Period of validity This approval is valid until 17 February 2008.



Tor Bakke



Johan Åkesson