



Bilfinger Industrier Norge AS

## LAMBDA T THERMAL INSULATION

### Thermal Insulation – Bilfinger Lambda Products

- Lambda is the brand name used on all insulation products marketed by Bilfinger Oil & Gas. All products are designed and documented to be used in high risk environments within the oil & gas industry, nuclear power plants and process industry. The products have been developed and tested as a consequence of the rigorous requirements oil & gas industry, meeting NORSOK and ISO standards.
- All Lambda products are highly recognized among professional engineers as "state of the art" insulation systems. Each product is tailor made and pre-fabricated to fit the exact valve, flange or equipment to be protected. In addition to exceeding functional requirements, all products are designed for quick and easy removal and re-installation with a minimum use of personnel and tooling. Bilfinger Lambda is continuously and proactively recognizing customer demands and developing solutions to meet these requirements.

### Lambda Thermal Insulation

Lambda Thermal insulation is used as both thermal protection, sound protection and personnel protection. So this is indeed a multipurpose jacket that can apply to classes 1, 4 and 6, 7 and 8 according to NORSOK standard. The solution is applicable in different production environments such as process industry, power plants, marine industry, oil & gas, etc.

Our thermal insulation system is tailor-made and can be delivered as flexible jackets or boxes in stainless steel. Insulation material and thickness will vary with the requirements.

All seams are sewn with Kevlar thread and sealed with silicone. The outer silicone coated fabric has no penetrations that could cause water ingress, and has been tested according to IACS UR S.14.2.3 and Norsok R-004.

All Bilfinger Lambda products are designed for quick and easy removal and re-installation with the use of minimum personnel, personal protection equipment and tooling.

### Design and Test results

The Lambda Thermal / Acoustic products have been tested at Peutz Laboratories according to ISO 15665: 2003 and achieved A1, B1 and C1.

### Key Product Benefits

- Environmentally friendly
  - No halogens
  - Fiber free
  - Re-use
- Maintenance free – stainless steel surface for boxes, Strong Silicone Coated Fabric exterior for Flexible Jackets
- Easy to install, remove, inspect, and re-install
- Pre-fabricated solution → low installation cost
- Low Life Cycle Cost
- Combined classes (Norsok 1, 4 and 6, 7, 8)
- Weather proof materials testing
  - Norsok R-004
  - IACS UR S.14.2.3
- Acoustic Tests A1 / B1 / C1
  - ISO 15665:2003



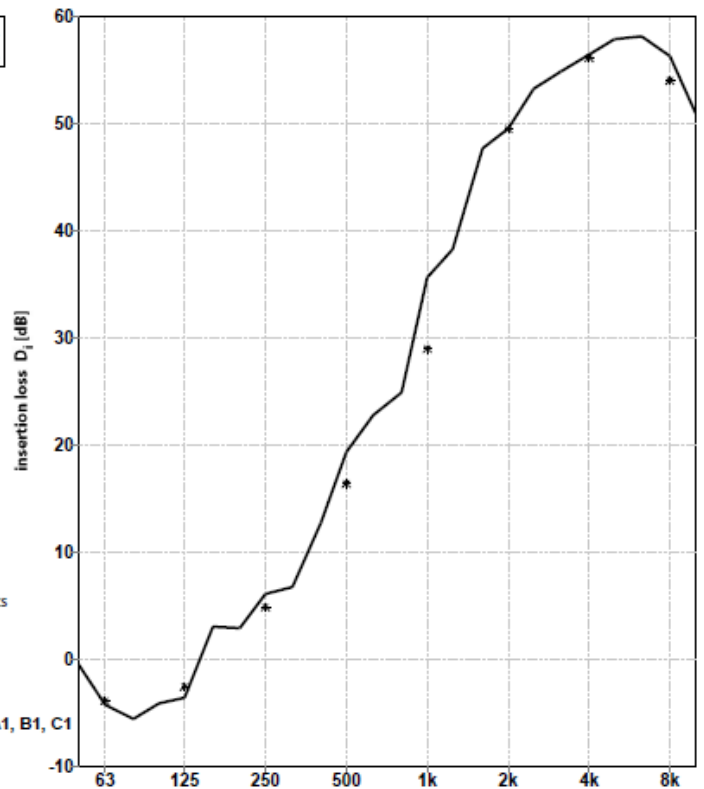
**BILFINGER**

**OIL AND GAS**

## THERMAL BOX/JACKET



— 1/3 oct.  
\* 1/1 oct.



volume: 214 m<sup>3</sup>

measured at: Peutz  
Laboratory for Acoustics

bandwidth: 1/3 octave

Class (ISO 15665): A1, B1, C1

Bilfinger Industrier Norge AS

Kanalarmen 8  
4033 Stavanger  
Norway  
Telephone +47 480 24 444

[firmapost@bis-industrier.no](mailto:firmapost@bis-industrier.no)  
[www.industrier.bilfinger.com](http://www.industrier.bilfinger.com)