

NAK FLUE LINERS

Improving the air you breathe

www.nakhoulcorp.com

 **NAKHOU SARL**
CORPORATION
AIR DISTRIBUTION PRODUCTS SINCE 1976



EN 1856-1/2

- **NAKHOUL CORPORATION**

is a leading supplier of modular prefabricated chimney system in the Middle East area, with a wide choice of chimney & flue products.



FLUE LINERS

NAK



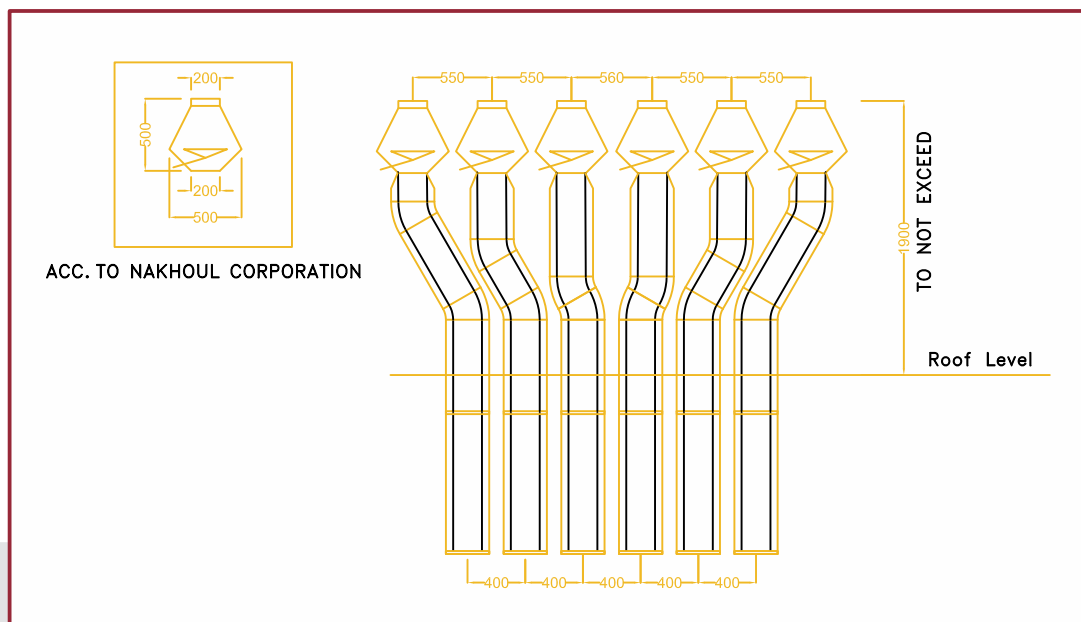
- **NAK FLUE LINER SYSTEM**

remains the perfect solution for gas exhaust at high and low temperatures, and for pressures of up to 5000 Pa.



DEVELOPMENT INNOVATION & TECHNICAL SUPPORT

- With advanced design and engineering support, **NAKHOUL CORPORATION** provides complete system design, from sizing to pressure drop calculations, to product selection and detailed AutoCAD design.



- Through its many executed projects, **NAKHOUL CORPORATION** demonstrated its expertise in offering custom made solutions to meet Clients' requirements and satisfaction.

- **NAKHOUL CORPORATION** has developed its own proprietary flue liner's selection software. The software is in accordance with the European standard EN 13384-1/2.



QUALITY & RESOURCES

- **NAK FLUE LINER** conform to the most stringent industry standards. They are certified in accordance with EN 1856-1/2 (Performance Requirements for Metal Chimney Systems), EN1366-1 & BS-476 part 24, and are manufactured under ISO 9001-2015 quality control systems.
- **NAK FLUE LINER** are constructed of stainless steel material for outstanding corrosion resistance and extension of the appliance's useful life.
- Four different models of **NAK FLUE LINER** are available each suitable for a specific application.

FLUE LINERS

NAK



INNER WALL

- The stainless steel AISI type 304L (1.4301) is used with a thickness of 0.6mm or greater.

OUTER WALL

- The stainless steel AISI type 304L (1.4301) is used with a thickness of 0.5mm or greater.

INSULATION BETWEEN WALLS

- A rockwool of 50mm thickness and density of 70kg/m³ is used. However, and upon demand, a rockwool of 100mm thickness can be used making the system referred to as NAK BO 100.

Product CE designation ▼

EN1856-2-T300-P1-W-Vm-L20060-O50

NAK BO50

- **NAK BO50** systems are double wall modular stainless steel flue liner designated specially to work under elevated temperatures of up to 300°C, and pressure of up to 200 Pa.

- **NAK BO50 FLUE LINER** are produced in sizes from 125 mm to 500 mm. Larger sizes are available upon request.



NAK GE50

- **NAK GE50** systems are double wall modular stainless steel flue liner, designated specially to work under elevated temperatures of up to 600°C, and high pressure of up to 5000 Pa.

- **NAK GE50** is fire rated, tested and certified according to EN1366-1 and BS-476 part 24.

- **NAK GE50 FLUE LINER** are produced in sizes from 125 mm to 500 mm. Larger sizes are available upon request.

INNER WALL

- The stainless steel AISI type 316L (1.4404) is used for all combustion material and in all conditions, due to its capacity to resist to acids pitting. The thickness is of 0.6mm or greater.

OUTER WALL

- In moderate environment conditions the stainless steel AISI type 304 (1.4301) is used. However, and in high corrosive environment the stainless steel AISI type 316L (1.4404) is used as an option.

INSULATION BETWEEN WALLS

- Rockwool of 50mm thickness & density of 100kg/m³ is used. However, and upon demand, a rockwool of 100mm thickness and density of 100kg/m³ can be used making the system referred to as NAK GE100.

JOINT INSULATION

- Biosoluble ceramic fiber, with 128kg/m³, allowing a homogenous heat transfer through the whole pipe.

Product CE designation ▼

EN1856-1-T600-H1-D-Vm-L50060-G50

FLUE LINERS

NAK



NAK SW⁺

- **NAK SW⁺** systems are single wall modular stainless steel flue liner, supplemented with a seal.
- This seal assures the joint tightness and is certified to EN 14241-1. The system can withstand a temperature of up to 200°C, & a pressure of up to 200 Pa.
- **NAK SW⁺** flue liners are produced in sizes from 100 mm to 350 mm.

WALL

- The stainless steel AISI type 316L (1.4404) is used with a thickness of 0.6mm or greater.

PRODUCT CHARACTERISTICS

- The stainless steel AISI type 316L (1.4404) is used for all combustion material and in all conditions, due to its capacity to resist to acids pitting. The thickness is of 0.6mm or greater.
- A mono component neutral silicone T300-W2-K2-LE, identified as per EN 14241-1, is used in the temperature range between -60°C and +300°C

Product CE designation ▼

EN1856-2-T200-P1-W-Vm-L50060-050



WALL

- The stainless steel AISI type 316L (1.4404) is used with a thickness of 0.6mm or greater.

PRODUCT CHARACTERISTICS

- The stainless steel AISI type 316L (1.4404) is used or all combustion material and in all conditions, due to its capacity to resist to acids pitting. The thickness is of 0.6mm or greater.

- The ends are fixed by locking bands.

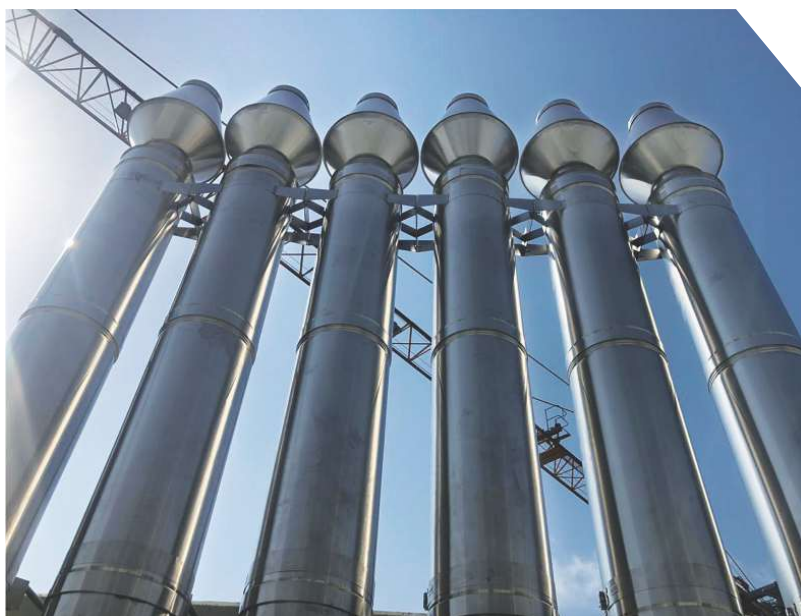
Product CE designation ▼

EN1856-2-T400-N1-W-Vm-L50060-070

- **NAK SW** systems are single wall modular stainless steel flue liner.

- The system can withstand a temperature of up to 400°C with a natural draught of 40 Pa. They are installed without any sealing and work under natural draught negative pressure.

- **NAK SW FLUE LINER** are produced in sizes from 100 mm to 350 mm.



COMPLETE LINE OF FITTINGS & ACCESSORIES



- Fittings include various angle elbows, tees, adaptors, soot collectors, and terminal caps, as well as a variety of structural accessories needed for support and attachment to building structures.



FIELDS OF APPLICATION





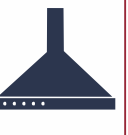



- Generator exhaust.
- Smoke extract.
- Kitchen hood extract.
- Boiler exhaust.
- Industrial ovens exhaust.
- Fireplaces exhaust.



NAK

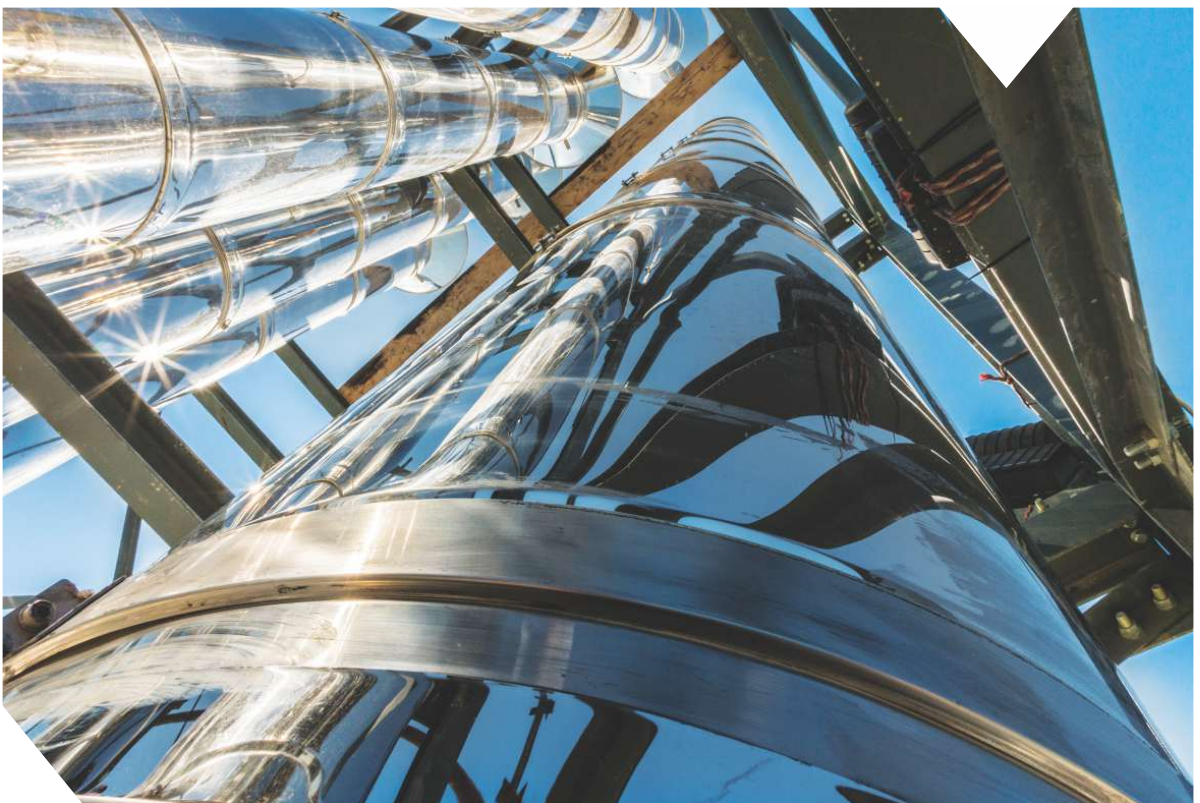
FLUE LINERS

THE RIGHT SELECTION
FOR YOUR PROJECT

| | GAZ BOILER | DIESEL BOILER | OPEN FIREPLACE | HEATING STOVE | KITCHEN OR INDUSTRIAL HOOD | POWER GENERATOR | FIRE RATED DUCTS SMOKE EXTRACTION | DIESEL FIRE PUMPS |
|---------------|---|---|---|---|--|---|---|---|
| TYPE OF LINER |  |  |  |  |  |  |  |  |
| NAK GE50 | ✗ | ✗ | ✗ | ✗ | ✓ | ✓ | ✓ | ✓ |
| NAK B050 | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| NAK SW+ | ✓ | ✓ | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |
| NAK SW | ✗ | ✗ | ✓ | ✓ | ✓ | ✗ | ✗ | ✗ |

CERTIFICATES

- **NAK FLUE LINER** is certified and produced in compliance with the EU regulation No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR).
- EN1856-1-T600-H1-D-Vm-L50060-G50, *trademark NAK GE50*.
- EN1856-2-T300-P1-W-Vm-L20060-O50, *trademark NAK BO50*.
- EN1856-2-T400-N1-W-Vm-L50060-O70, *trademark NAK SW*.
- EN1856-2-T200-P1-W-Vm-L50060-O50, *trademark NAK SW⁺*.
- EN1366-1 and BS-476 part 24, *trademark NAK GE50*.





www.nakhoulcorp.com

NAK FLUE LINERS

Offices Zouk Mikael

Tel. +961 9 225 888 • Fax: +961 9 223 888

Factory Gharzouz

Tel. +961 9 791 442 • +961 9 791 443

P.O.Box 182 Zouk Mikael | Lebanon

Mob. +961 3 195 082 • +961 76 560 003

