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# DET NORSKE VERITAS

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## EC TYPE-EXAMINATION CERTIFICATE

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**CERTIFICATE NO. 80526-2010-CE-KOR-DNV**

This Certificate consists of 3 pages

*This is to certify that the product*

**Safety Gear**

*with type designation(s)*

**PS45A/Progressive**

*Manufactured by*

**Otis Elevator Korea/SIGMA Elevator Company**

74, Seongsan-dong, Changwon-City, Gyeongnam, 641-714, Korea

*has been assessed with respect to*

the conformity assessment procedure described in Annex V. A (Module B) of  
Council Directive 95/16/EC on Lifts, as amended, and found to comply

*Further details are given overleaf.*

*Place and date*

Høvik, 28 June 2010

*This Certificate is valid until*

27 June 2015

*for* DET NORSKE VERITAS

Notified Body No.: 0434

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Marianne Spaeren

*Head of Section  
PED, ATEX, Pressure Equipment*

Sören Juhlin  
*Technical Reviewer*

*Notice: The certificate is subject to terms and conditions overleaf. Any significant changes in design or construction may render this certificate invalid.*

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.

## Jurisdiction

DNV is appointed by the National Office of Building Technology and Administration as Notified Body under the terms of the Norwegian regulation "Forskrift om krav til byggverk og produkter til byggverk /TEK)", dated 1997-01-22 and Article 9 of Council Directive 95/16/EC.

## Certificate history

| <i>Revision</i> | <i>Description</i>   | <i>Issue date</i> |
|-----------------|----------------------|-------------------|
| 0               | Original certificate | 28, June, 2010    |

## Product description

The following types are covered by the certificate:

| <i>Product Description</i> | <i>Type designation(s)</i> | <i>Ratings</i>   |
|----------------------------|----------------------------|--|
| Safety Gear                | PS45A/Progressive          | Maximum tripping speed : 3.55m/s<br>Min/Max load: 3451/4500kg<br>The minimum width of gripping : 18 mm<br>Guide rail :Dry and Lubricated (ISO Grade 68 or 32)<br>Thickness of guide rail: 16 mm, 15.88 mm<br>Guide rail type :ISO T89/B, T90/B, T114/B, T125/B, T127-1/B, T127-2/B |

## Applications/Limitations

This Certificate only relates to Lifts safety. Other directives, covering other phenomena, also having requirements related to CE marking, might also apply.

## Technical documentation:

The following documentation formed the basis for the assessment:

| <i>Document No.</i> | <i>Name/Title</i> | <i>Version/Date</i> |
|---------------------|-------------------|---------------------|
| SR)Me623-0068       | Technical dossier | 1 / 2010-04-08      |
| PIS10117            | Test report       | 2010-06-22          |

## Applied Standards/Tests carried out:

The following standards/specifications have been applied: EN81-1

## Terms and conditions

This certificate is subject to the following terms and conditions:

The producer (see 2001/95/EC for precise definition) is liable for damage caused by defect in his product(s), in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.

The following conditions may render this certificate invalid:

- Changes in the design or construction of the product
- Changes or amendments to the referenced directive
- Changes or amendments in the standards which form the basis for documenting compliance with the essential requirements of the directive

## Marking of product

This Certificate is only concerned with the design of the product. To fully meet with the requirements of the Directive and legally affix the CE mark, the manufacturer must take all necessary measures to ensure the manufacturing process makes sure that the manufactured product complies with the technical documentation and with the requirements of the Directive, and draw up an EC declaration of conformity.

END OF CERTIFICATE