

maxit Marine Floors

maxit Group
"Introduction"

■ maxit Group facts and figures

- Part of Compagnie de Saint Gobain
- Turnover: €1.237 billion (2006)
- > 5100 employees
- Operations in 30 countries worldwide



maxit Group facts and figures

Two main product areas - Exclay and Premix



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■ maxit Norway facts and figures

- Producer of materials and solutions for the marine and building industries
- Turnover: €156 mill (2007)
- ~ 340 employees
- Technical and commercial HQ for marine activities worldwide



■ maxit Marine Floors – Areas of application



Ships and vessels



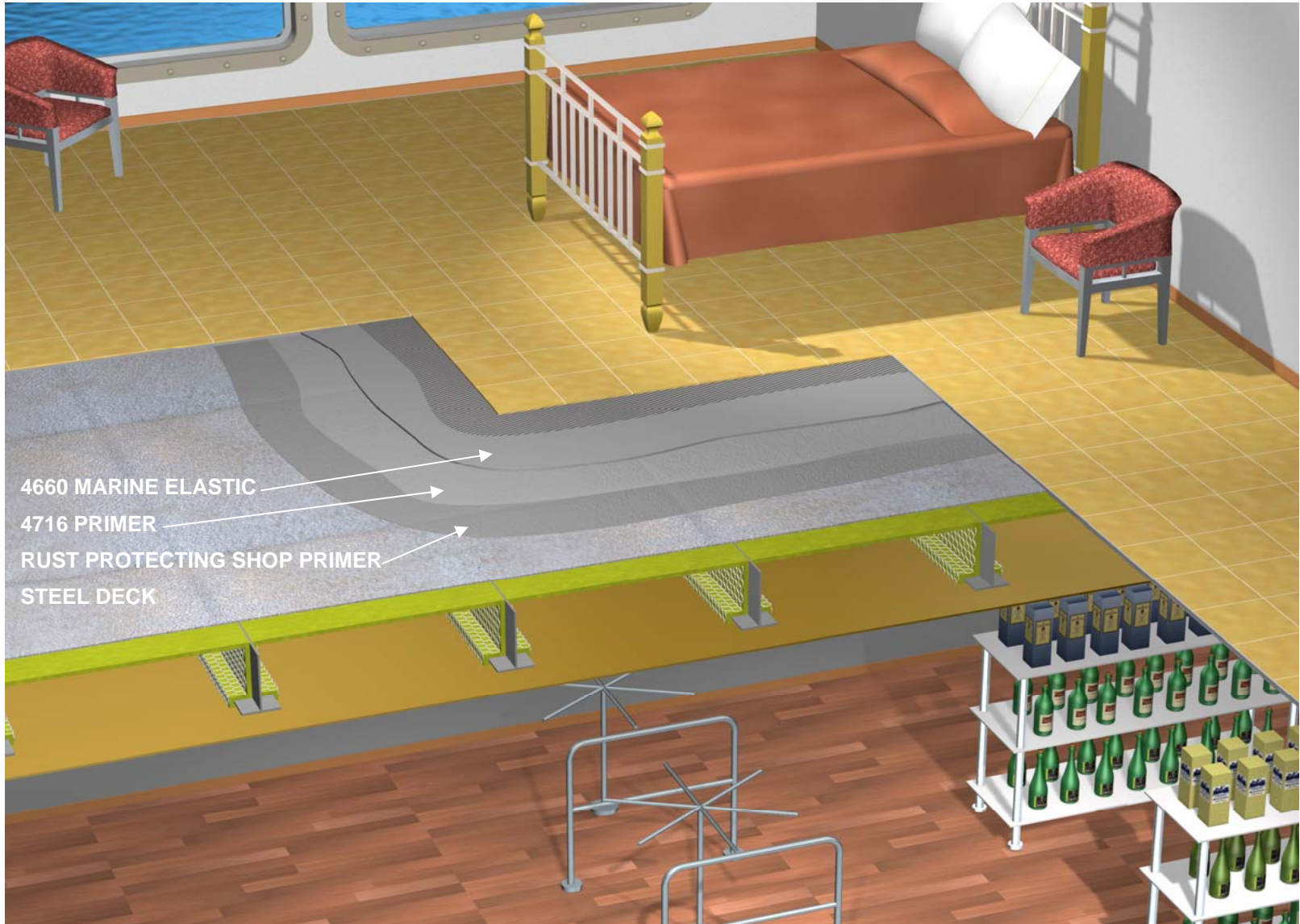
Offshore installations

■ maxit Marine Floors – products and systems

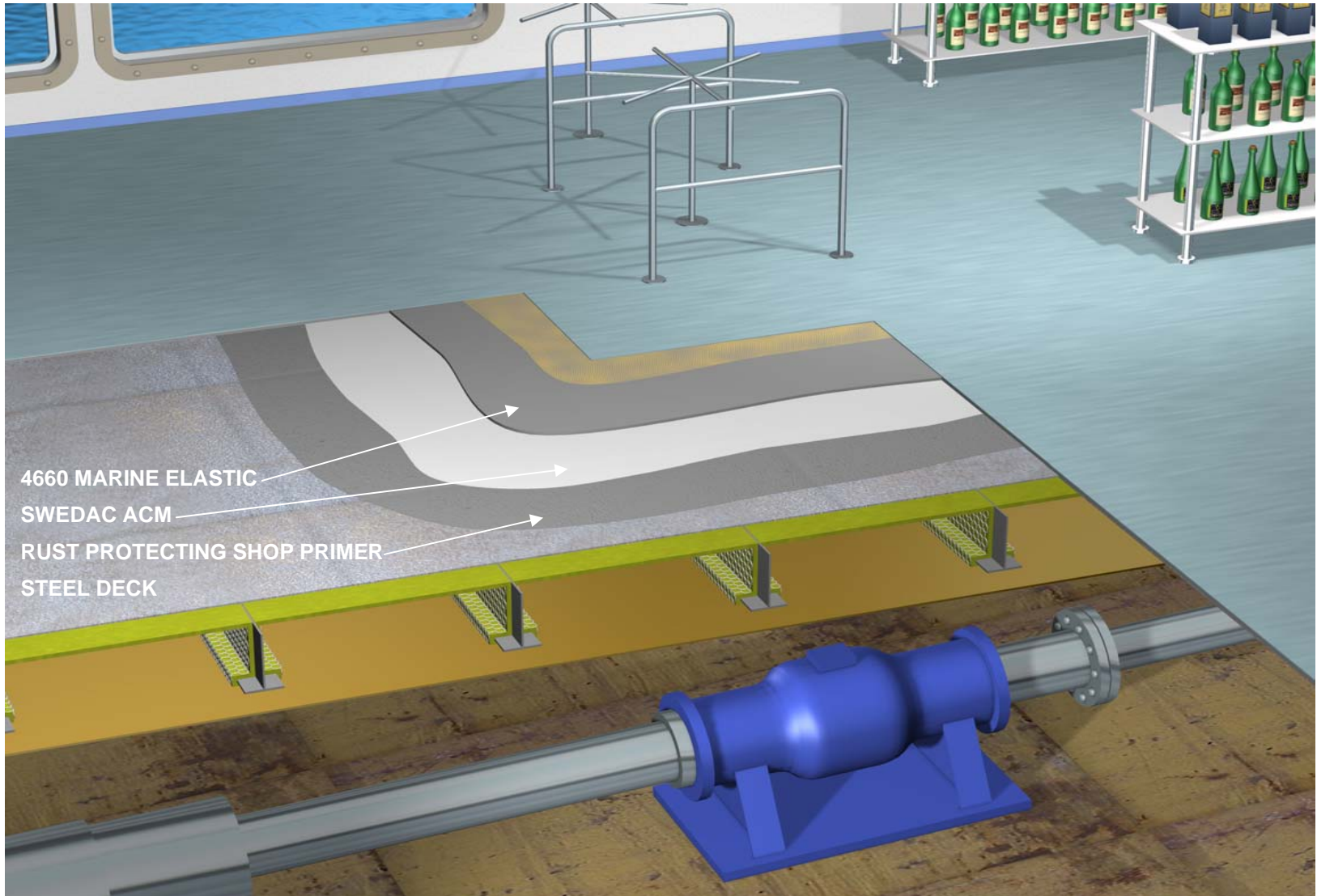
- Primary deck coverings
- Self levelling compounds
- A-60 deck covering
- dB-Floor
- dB A-60 Floor



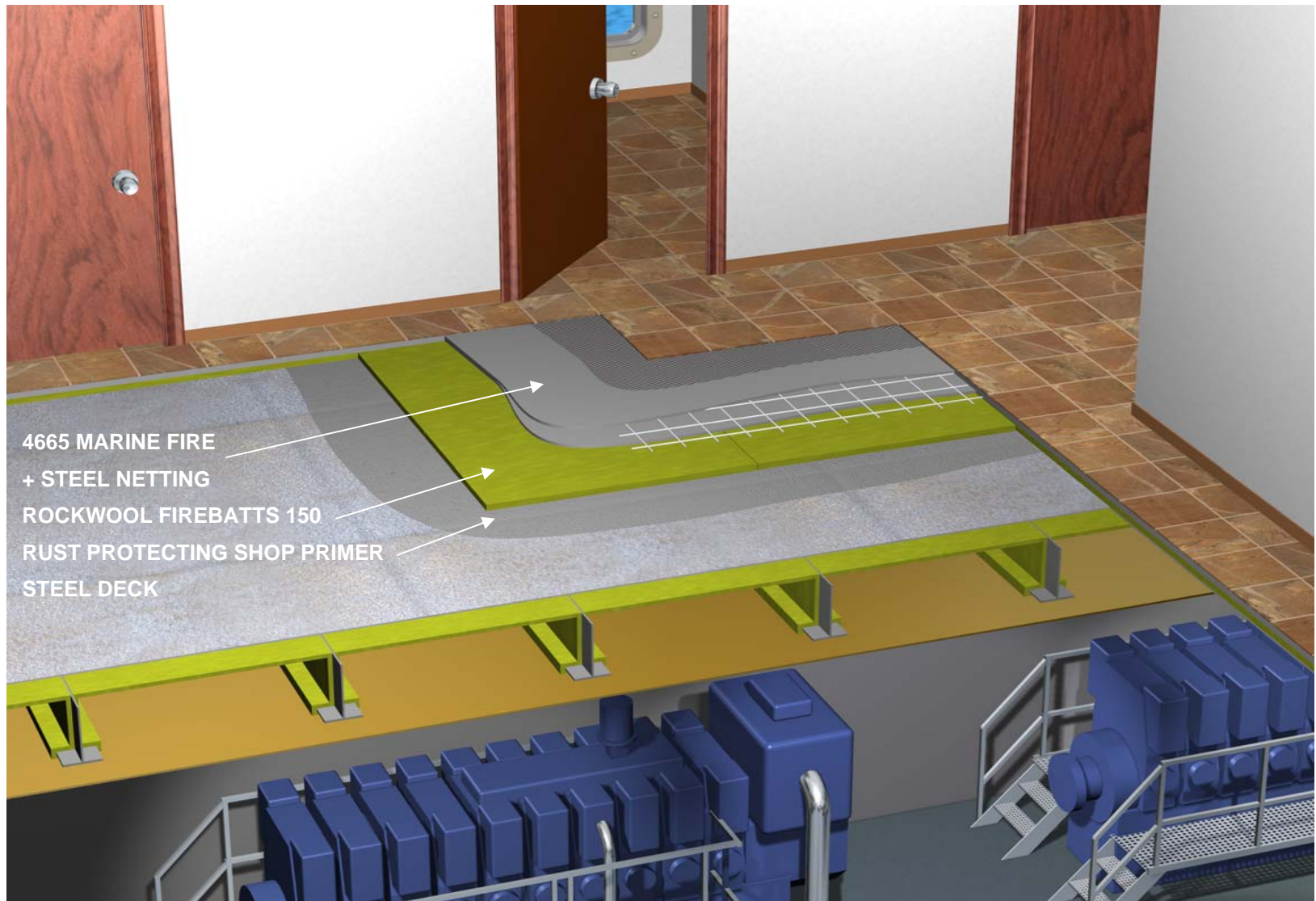
■ Primary Deck Covering



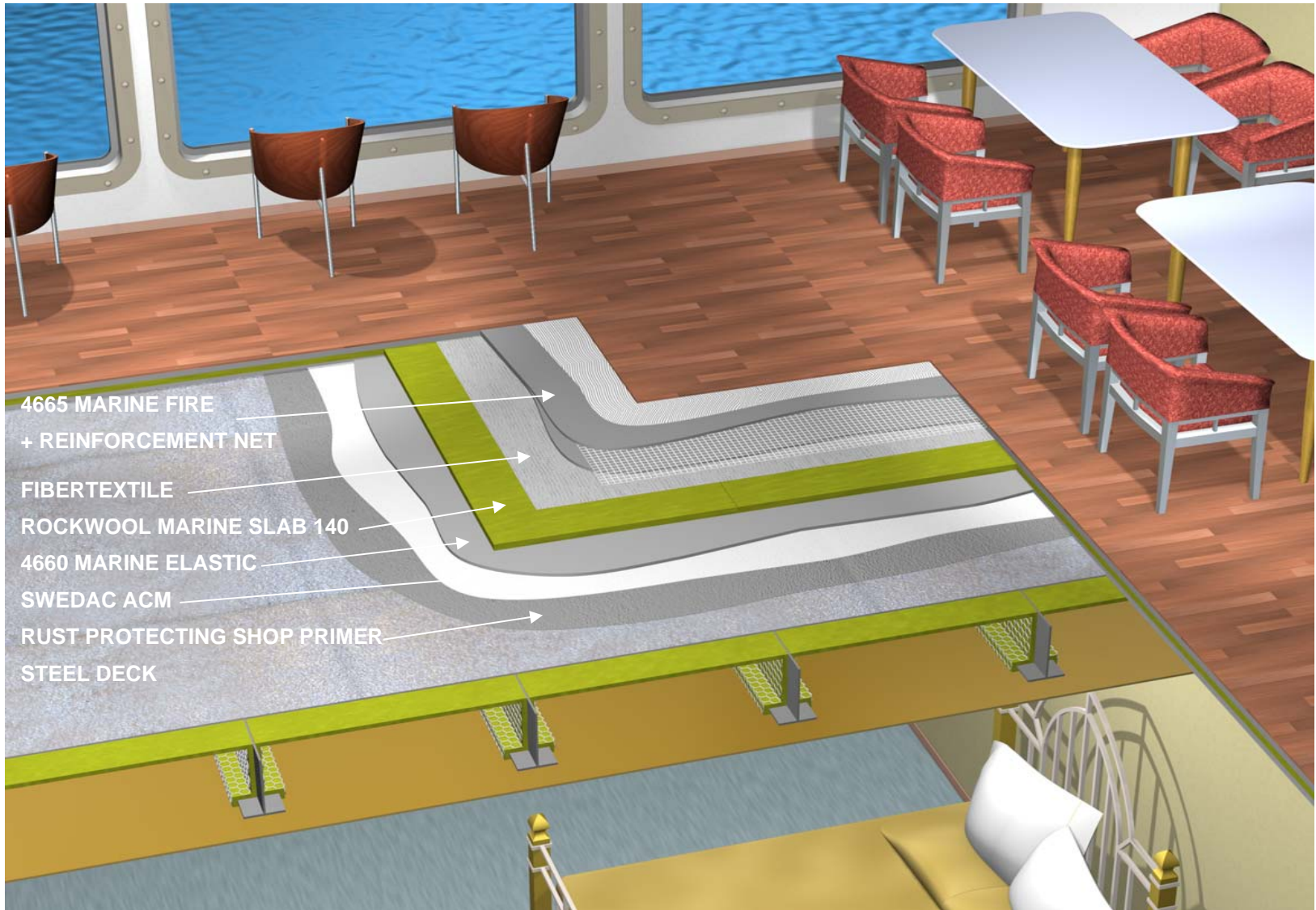
■ Light dB-Floor



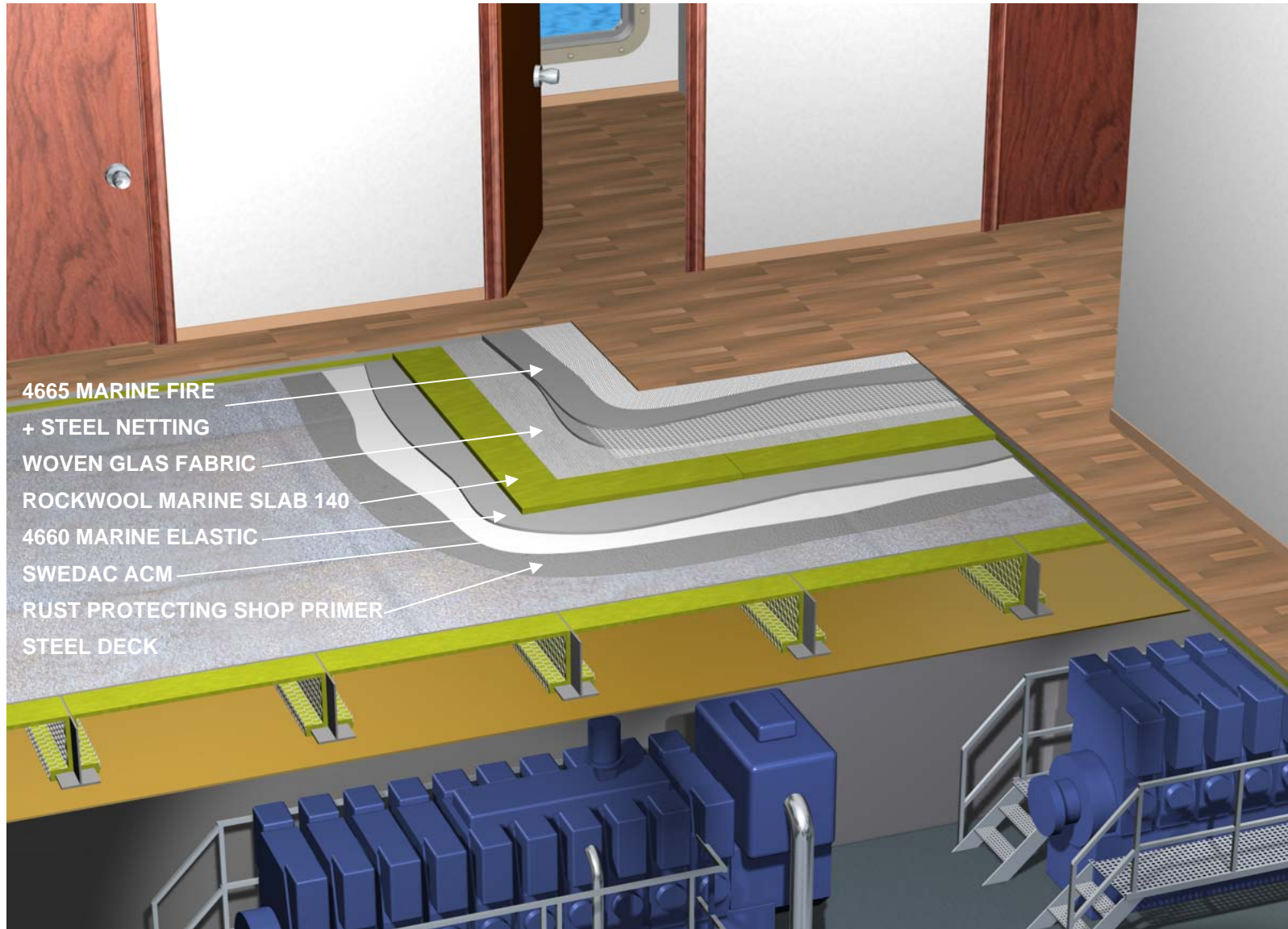
■ A-60 Floor



dB-Floor



dB A-60 Floor



■ Certificates for Marine Floor products and solutions

	DNV MED-B	US Coast Guard
Floor 4660 Marine Elastic	✓	✓
Floor 4665 Marine Fire	✓	✓
Floor 4670 Marine Base	✓	✓
Floor 4675 MarineFlow Rapid	✓	✓
Floor 4680 Marine Light	✓	✓
Marine A-60 Floor	✓	✓
Marine dB A-60 Floor	✓	✓
Marine dB-Floor	✓	✓
Marine Light dB-Floor	✓	✓
System Superflex 1 & 41	✓	✓

Sound tests

- Sound tests performed on:
 - Light-dB Floor
 - dB Floor
 - A-60 Floor

Structure-borne Sound Insulation properties

Insertion Loss, IL_i
 IL_i describes the difference between the level measured on the bare steel level and the level measured on top of the applied level measured on top of the applied level.

The insertion loss is used for reduction of the structure loss caused by the floor covering. Pop insertion loss describes the impact loss by using the floor covering.

Typical marine applications, Loss is important are:

- Evaluation of the radiate floor covering
- Evaluation of the radiate transmitted to the hull floor covering.

Radiation Index, I_{01}
 Measured according using an electrodyner

The radiation index vibrating floor to radiation index - i noise level and i noise level to i velocity level and

No standard sound insulr measuring if been devel Samsøe A/S

maxit Marine Light dB Floor

Airborne Sound Insulation Properties

Sound Reduction Index, R
 Measuring standard: ISO 1403, Laboratory measurements of airborne sound insulation of building elements.

R describes the sound insulation of the floor and is used for evaluating the noise reduction between the adjoining rooms. From the calculated values of R spectrum adaptation term C was calculated following the procedure in ISO 17171.

Typical marine applications, where the value of R is important, are:

- Sound reduction between the engine rooms and the cabins just above.
- Sound reduction between noisy rooms, e.g. disc-rooms, show lounges etc. and the cabins just below or above.

Impact Sound Insulation Properties

Normalized Impact Sound Pressure Level, L'_{n1}
 Measuring standard: ISO 1406, Laboratory measurements of impact sound insulation of floors.

L'_{n1} describes the impact sound pressure level in a reverberant room below the deck and is used for evaluating the reduction of noise caused by people walking and other human activities. From the measured values the weighted normalized impact sound L'_{n1} and the spectrum adaptation term C_1 was calculated as outlined in ISO 17172.

Typical marine applications, where the value of L'_{n1} is important, are:

- Decks covered with hard floors like in corridors and on open deck on passenger ships with accommodation cabins located below.
- Decks used for dancing with accommodation cabins below.

Investigation and measurements performed by
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 Ødegaard & Danneskiold-Samsøe A/S is a member of the Lloyd's Register Group



Ødegaard & Danneskiold-Samsøe A/S

Consulting Engineers - Noise and Vibration Control



■ Well proven products and solutions

- 17 years experience
- > 1 000 000 m² primary deck covering
- > 100 000 m² A-60 deck covering



”The World”:

27.000 m² primary
deck covering
applied at a speed
of ~400 m² per hour

■ Key benefits of maxit Marine Floors

- Certified products and solutions
- Durability and flexibility
- Pumpable, cement-based
- Self-levelling and self-smoothing
- Rapid installation, fast curing



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Thank you for your attention!

www.maxitmarine.com

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