MARINE
Sikafloor® Marine Litosilo Systems
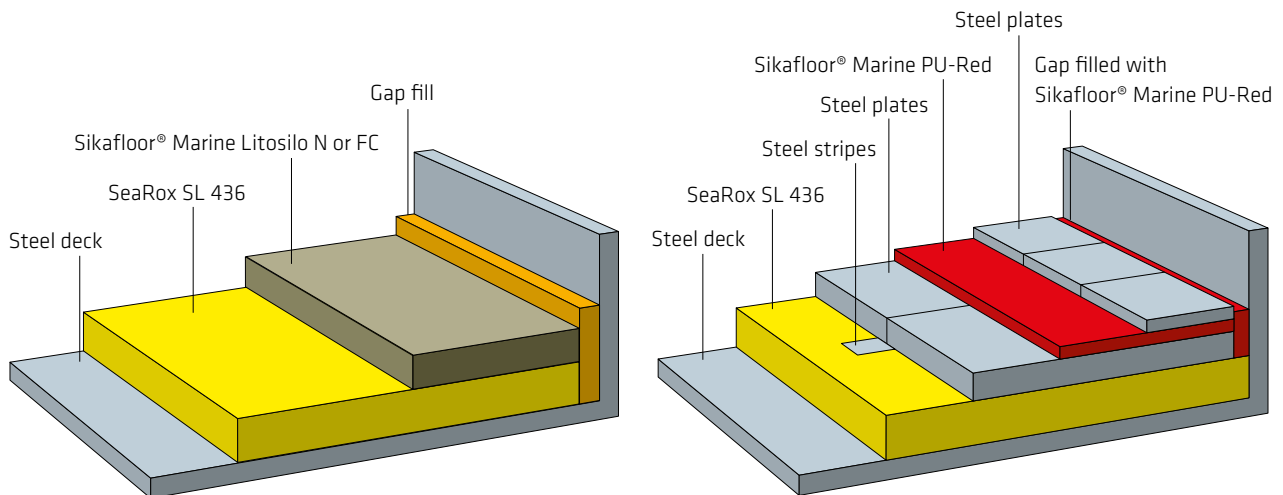
PUMPABLE A60 SOUND REDUCTION SOLUTIONS

Sikafloor® Marine Litosilo Systems

Sound Reduction Solutions

Being onboard a commercial vessel means being exposed to noise 24 hours a day. Loud noise is coming from sources such as main engine, bow thrusters, HVAC-system and other electrical installations. If nothing is being done to reduce the problem, crew members can quickly start to get sick and feel dizzy and they will soon be a danger for themselves, the rest of the crew as well as the vessel. Therefore, international authorities throughout the years have set the standards very high when it comes to comfort onboard all commercial vessels. It is crucial for the crew to have an environment where they can work and more importantly where they can relax without being exposed to dangerous noise and vibrations.

PRODUCT DESCRIPTION

Sikafloor® Marine Litosilo systems are floating floor systems. The systems consist of a layer of mineral wool on which either a one-component compound (Sikafloor® Marine Litosilo N or Sikafloor® Marine Litosilo FC) or steel/alu plates are applied. These build-ups give maximum sound reduction and provide a high degree of comfort for the crew on board the vessel. The Sikafloor® Marine Litosilo systems are all part of an A60 solution with a building height of only 45 mm. Prior to application of carpets, vinyl, etc. a smoothing levelling is needed. The Sikafloor® Marine Litosilo products can be used as a primary deck covering.

CERTIFICATES

Sikafloor® Marine products have been approved according to the IMO-regulation and other major authorities and classification societies.
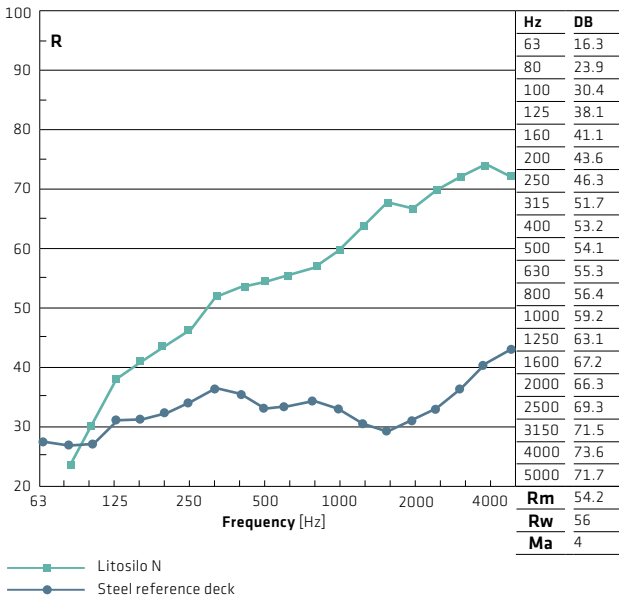
Sikafloor® Marine Litosilo N or FC

Sikafloor® Marine Litosilo N or FC are a one-component, non-combustible, pumpable solution for those looking for an A60-fire rated solution with low building height. The first layer in the system is minimum 20 mm of mineral wool on which the Sikafloor® Marine Litosilo compound is applied from only 25 mm, giving the whole system a building height of only 45 mm. Sikafloor® Marine Litosilo products are very flexible (low e-modulus), and reduce the risk of cracks in the surface.

TECHNICAL BENEFITS
- A60 approved from 45 mm
- Levels out the deck
- High noise reduction performance
- One-component pumpable compound
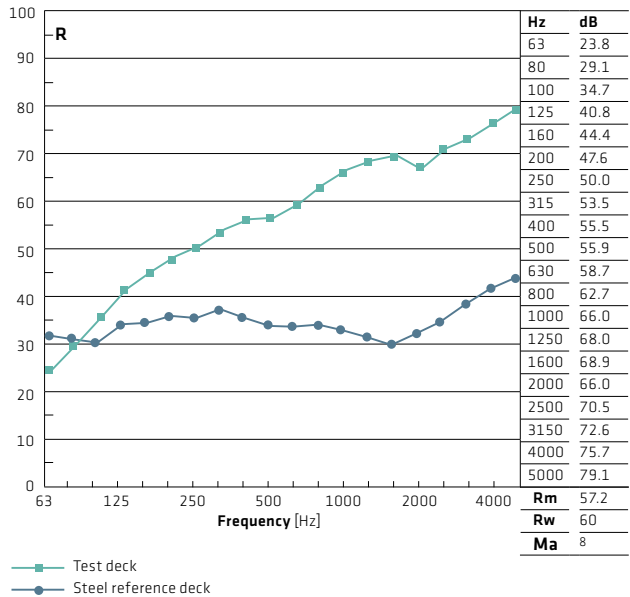- Can be applied in one day

Sikafloor® Marine Litosilo Steel

Sikafloor® Marine Litosilo Steel is a floating floor solution with A60 approval from a building height of 55.5 mm. The first layer in the solution is a 50 mm mineral wool on which 2 layers of steel plates are applied bonded together with Sikafloor® Marine PU-Red or any wheelmarked adhesive from Sika. The Sikafloor® Marine Litosilo Steel has a fast curing time and allows installation teams to proceed with final deck covering after 1 day.

TECHNICAL BENEFITS
- A60 approved from 55.5 mm
- Levels out the deck
- High noise reduction performance

SOUND PERFORMANCE OF Sikafloor® Marine Litosilo N

Hz	DB
63	16.3
80	23.9
100	30.4
125	38.1
160	41.1
200	43.6
250	46.3
315	51.7
400	53.2
500	54.1
630	55.3
800	56.4
1000	59.2
1250	63.1
1600	67.2
2000	66.3
2500	69.3
3150	71.5
4000	73.6
5000	71.7
Rm	54.2
Rw	56
Ma	4

- Litosilo N
- Steel reference deck

Source: Lloyds register ODS

SOUND PERFORMANCE OF Sikafloor® Marine Litosilo Steel

Hz	dB
63	23.8
80	29.1
100	34.7
125	40.8
160	44.4
200	47.6
250	50.0
315	53.5
400	55.5
500	55.9
630	58.7
800	62.7
1000	66.0
1250	68.0
1600	68.9
2000	66.0
2500	70.5
3150	72.6
4000	75.7
5000	79.1
Rm	57.2
Rw	60
Ma	8

- Test deck
- Steel reference deck

SIKA WORLDWIDE

FOR MORE MARINE INFORMATION:

www.sika.com/marine

WHO WE ARE

Sika AG, Switzerland, is a globally active specialty chemicals company. Sika supplies the building and construction industry as well as manufacturing industries (automotive, bus, truck, rail, solar, wind power, plants and facades). Sika is a leader in processing materials used in sealing, bonding, damping, reinforcing and protecting loadbearing structures. Sika's product lines feature highquality concrete admixtures, specialty mortars, sealants and adhesives, damping and reinforcing materials, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.

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