Schlüter®-DITRA-SOUND is a bonded impact sound insulation for tile coverings, made of a heavy polyethylene mat, which has an anchoring fleece laminated on both sides to bond with the tile adhesive.

This system was tested by an independent testing institute in accordance with the standard DIN EN ISO 140-8 (BS EN ISO 140-8).

As part of a complete assembly, an impact sound insulation improvement (ΔLW) of 13 dB was determined for Schlüter®-DITRA-SOUND.

However, the actual impact sound reduction of an assembly depends on the local circumstances (construction system) and may differ from this value. Consequently, the determined test values cannot be applied to specific construction site situations.

The substrate must be level and ready to bear weight. Schlüter®-DITRA-SOUND is installed in adhesive that must be suitable for the substrate. The adhesive is applied with a notched trowel (recommended size 3 x 3 mm or 4 x 4 mm). The underside of Schlüter®-DITRA-SOUND (i.e. the printed side) is fully embedded in the adhesive, ensuring the mechanical anchoring of the fabric in the adhesive. The curing time of the adhesive must be taken into consideration.

The tiles are installed directly over Schlüter®-DITRA-SOUND in accordance with the applicable regulations, using the thin-bed method. The adhesive bonds with the fleece fabric on the topside of the mat. This results in the complete bonding of the entire system.

Impact sound

The transmission of noises caused by foot steps or dropped objects to adjoining or underlying rooms is referred to as impact sound transmission. The floor/ceiling structure absorbs the structure borne noise and transmits the resulting impact sound in the form of airborne noise.

The human ear perceives impact sound that is muffled by 10 dB as airborne noise which is reduced by 50%.

Impact sound (e.g. the noise generated by hard shoes) is also reflected back into the room. This effect is multiplied in the case of light constructions and hard surfaces, leading to the so called drum roll effect. It can be completely eliminated by the high density of the heavy mat.
Note regarding movement joints: Schlüter®-DITRA-SOUND must be separated about the existing movement joints in the substrate. In accordance with the applicable construction site rules, the joints must be continued in the floor covering. The same standards in the long term, so the product should not be stored in places with prolonged exposure to direct sunlight.

Material
Schlüter®-DITRA-SOUND is a heavy polye-
thylene mat with a thickness of approxi-
mately 3.5 mm. A fabric is laminated on both sides of the mat. Polyethylene is a special material that is not sensitive to the environment. It is not affected by humidity, temperature, or radiation. Schlüter®-DITRA-SOUND is highly durable. If high traffic loads are expected (maximum 5 kN/m²), DITRA-SOUND are highly durable. If high

Crack bridging
SCHLÜTER-CERAMIC COVERINGS can be used to bridge cracks, which are not expected to remain significantly or to show height displace-
ment, if the cracks in the sub-
strate are not transformed into the floor covering. If applicable, it may be necessary to install a feature to prevent height displacement.

Local loading (bed transfer)
SCHLUTER-DITRA-SOUND is a heavy mat that cannot be compressed. Accordingly, the covering including Schlüter®-DITRA-
SOUND must be installed on a clean and compatible structure with a suitable support structure. The panels must be set tightly next to each other and be free of all substances that may inhibit the bond. Any levelling must be done in the applied adhesive. Immediately prior to installing the Schlüter®-DITRA-SOUND mat to avoid sound bridges, cover all joints with the self-adhesive edge covering.

Notes regarding edge joints:
The build-up of the panels must be tied out at the edge of coverings as a uplift con-
struction elements or bonded transition. The edge joints and connection joints must meet the applicable professional standards. Their dimensions must be sufficient to rule out the build-up of tensions. In this data sheet, the suitability of the material must be verified based on the anticipated chemical and mechanical stresses. The information provided below is intended as a general guideline.

In conjunction with Schlüter®-KERDI, Schlüter®-DITRA-SOUND provides a water-
proof assembly for ceramic tile and natural stone applications.

Note
The thin-bed adhesive and covering mate-
rials used in conjunction with Schlüter®-
DITRA-SOUND must be suitable for all respective applications and meet the re-
levant requirements. The use of bulk adhesives on this thin-bed adhesive may be an advantage for specific projects. It is recommended to use a suitable adhesive for the installation of Schlüter®-DITRA-SOUND.

Concrete
Concrete is subject to long term dimen-
sional changes due to curing processes. Schlüter®-DITRA-SOUND must be used. They may be installed after three months.

Cementitious screeds
If Schlüter®-DITRA-SOUND is used, tiles may be installed over cementitious screeds after 28 days without the need to measure maximum residual moisture.

Calcium sulphate screeds
According to the applicable rules, the residual moisture level of calcium sulphate screeds may not exceed 5% (horizontal moisture content). Depending on the anticipated movement, movement, profile, etc., Schlüter®-DITRA-SOUND must be used. The floor covering is ready to be installed as soon as the moisture content drops below 1.5% (vertical moisture content). Calcium sulphate screeds are sensitive to moisture, making it necessary to protect the screen from further moisture ingress.

Heated screeds
Schlüter®-DITRA-SOUND may be installed over heated screeds. For this type of con-
struction, the general regulations for con-
struction must be observed with the coverings. The panels must be set tightly next to each other and be free of all substances that may inhibit the bond. Any levelling must be done in the applied adhesive. Immediately prior to installing the Schlüter®-DITRA-SOUND mat to avoid sound bridges, cover all joints with the self-adhesive edge covering.

Notes regarding edge joints:
The build-up of the panels must be tied out at the edge of coverings as a uplift con-
struction elements or bonded transition. The edge joints and connection joints must meet the applicable professional standards. Their dimensions must be sufficient to rule out the build-up of tensions. In this data sheet, the suitability of the material must be verified based on the anticipated chemical and mechanical stresses. The information provided below is intended as a general guideline.

In conjunction with Schlüter®-KERDI, Schlüter®-DITRA-SOUND provides a water-
proof assembly for ceramic tile and natural stone applications.

Note
The thin-bed adhesive and covering mate-
rials used in conjunction with Schlüter®-
DITRA-SOUND must be suitable for all respective applications and meet the re-
levant requirements. The use of bulk adhesives on this thin-bed adhesive may be an advantage for specific projects. It is recommended to use a suitable adhesive for the installation of Schlüter®-DITRA-SOUND.

Concrete
Concrete is subject to long term dimen-
sional changes due to curing processes. Schlüter®-DITRA-SOUND must be used. They may be installed after three months.

Conventional screeds
If Schlüter®-DITRA-SOUND is used, tiles may be installed over cementitious screeds after 28 days without the need to measure maximum residual moisture.

Calcium sulphate screeds
According to the applicable rules, the residual moisture level of calcium sulphate screeds may not exceed 5% (horizontal moisture content). Depending on the anticipated movement, movement, profile, etc., Schlüter®-DITRA-SOUND must be used. The floor covering is ready to be installed as soon as the moisture content drops below 1.5% (vertical moisture content). Calcium sulphate screeds are sensitive to moisture, making it necessary to protect the screen from further moisture ingress.

Heated screeds
Schlüter®-DITRA-SOUND may be installed over heated screeds. For this type of con-
struction, the general regulations for con-
struction must be observed with the coverings. The panels must be set tightly next to each other and be free of all substances that may inhibit the bond. Any levelling must be done in the applied adhesive. Immediately prior to installing the Schlüter®-DITRA-SOUND mat to avoid sound bridges, cover all joints with the self-adhesive edge covering.

Notes regarding edge joints:
The build-up of the panels must be tied out at the edge of coverings as a uplift con-
struction elements or bonded transition. The edge joints and connection joints must meet the applicable professional standards. Their dimensions must be sufficient to rule out the build-up of tensions. In this data sheet, the suitability of the material must be verified based on the anticipated chemical and mechanical stresses. The information provided below is intended as a general guideline.

In conjunction with Schlüter®-KERDI, Schlüter®-DITRA-SOUND provides a water-
proof assembly for ceramic tile and natural stone applications.

Note
The thin-bed adhesive and covering mate-
rials used in conjunction with Schlüter®-
DITRA-SOUND must be suitable for all respective applications and meet the re-
levant requirements. The use of bulk adhesives on this thin-bed adhesive may be an advantage for specific projects. It is recommended to use a suitable adhesive for the installation of Schlüter®-DITRA-SOUND.

Concrete
Concrete is subject to long term dimen-
sional changes due to curing processes. Schlüter®-DITRA-SOUND must be used. They may be installed after three months.
Material

Schlüter-DITRA-SOUND is a heavy polyurethane mat with a thickness of approximately 3.5 mm. A fleece fabric is laminated on both sides of the mat. Polyethylene is not required. The same standards in the long term so the product should not be stored in places with prolonged exposure to direct sunlight.

Material Properties and Areas of Application

Schlüter-DITRA-SOUND does not rot, is waterproof and barkharmless. It is largely resistant to the effects of various solutions, salts, acids and alkalis, many organic solvents, dust, solvents, paints and oils. The suitability of the material must be verified based on the specific chemical stressings, including the anticipated concentration, temperature and length of exposure. The water vapor permeability of the material is relatively low. The material is physically harmless. Schlüter-DITRA-SOUND can be used in all wide range of different applications. In special cases, the suitability of the material must be verified based on the anticipated chemical and mechanical stressings. The information provided below is intended as a general guideline.

In conjunction with Schlüter-DILEX (KERDI), Schlüter-DITRA-SOUND provides a waterproof assembly for ceramic tile and natural stone applications.

Note

This self-adhesive and covering material used in conjunction with Schlüter-DITRA-SOUND is to be kept in their respective applications and meet the relevant requirements. The use of the self-adhesive base of this self-adhesive is an advantage for specific projects. It is recommended to use plywood panels when the material is transported over areas where Schlüter-DITRA-SOUND has already been installed.

Substrates for Schlüter-DITRA-SOUND:

Always check the substrates on which Schlüter-DITRA-SOUND is to be used to make sure they are level, load bearing, clean and compatible with the material to be used. Remove all surface components that may weaken the bond. Unsound building elements may lead to the installation of Schlüter-DITRA-SOUND.

Concrete

Concrete is subject to long term dimensional changes due to curing processes. Schlüter-DITRA-SOUND is used. They may be installed after three months.

Notes regarding movement joints:

Schlüter-DITRA-SOUND must be separated above the existing movement joints on the substrate. In accordance with the applicable construction site and local or national regulations, movement joints must be continued in the tile covering. The same standards in the long term so the product should not be stored in places with prolonged exposure to direct sunlight.

Connections/screeds:

If Schlüter-DITRA-SOUND is used, tiles may be installed over ceramic screeds after 28 days without the need to measure residual movement.

Ceramic suitable screeds:

According to the applicable rules, the residual moisture level of ceramic suitable screeds may not exceed 3.0%. If applicable, it may be necessary to install a feature to prevent height displacement. If Schlüter-DITRA-SOUND is used, the tile covering is to be installed as soon as the residual moisture level drops below 1.5%. Calcium sulfate screeds are sensitive to moisture, making it necessary to protect the screed from further moisture ingress.

Heated screeds:

Schlüter-DITRA-SOUND may be installed over heated screeds. For this type of construction, the general regulations for conventional installation with the coverings must be observed.

Physical panels:

These materials are heavily affected by moisture (or large fluctuations in humidity). Therefore, it is recommended to use plywood panels with joints that are specially treated to prevent the absorption of moisture. The thickness of the panels should be chosen to ensure sufficient impact resistance in conjunction with the coverings. The panels must be securely fixed with screws. All installation of Schlüter-DITRA-SOUND must be continued prior to installing Schlüter-DITRA-SOUND.

Cut panels of Schlüter-DITRA-SOUND to size and fully emobilise the anchoring fleece in the applied adhesive. Immediately press this material into the adhesive with a final 1/2 to 1 mm roller, working in a single direction. Observe the curing time of all materials. It is best to precisely align the Schlüter-DITRA-SOUND panels to ensure a tight fit. The individual panels are set tightly next to one another. Scraps away any excess adhesive after 90 minutes. The adhesive on the bridge joints must be cleaned with a suitable support structure. The panels should have reached a balanced moisture level prior to the installation of Schlüter-DITRA-SOUND. Experts recommend the installation of an additional level of movement joint sections below the installation of other materials.

Synthetic coverings and coatings:

All surfaces must be load bearing and free of harmful or toxic substances and coatings over hardwood floors, provided the floorboards have tongues and grooves with connections, are sufficiently load bearing and clean and compatible with the adhesive. The substrates must be treated in such a way that the adhesive will bond with the substrates. This is particularly important to fully embedded tiles in accordance with the applicable professional standards. Various material transport) to protect the material into the adhesive with a final 1/2 to 1 mm roller, working in a single direction. Observe the curing time of all materials. It is best to precisely align the Schlüter-DITRA-SOUND panels to ensure a tight fit. The individual panels are set tightly next to one another. Scraps away any excess adhesive after 90 minutes. The adhesive on the bridge joints must be cleaned with a suitable support structure. The panels should have reached a balanced moisture level prior to the installation of Schlüter-DITRA-SOUND. Experts recommend the installation of an additional level of movement joint sections below the installation of other materials.

Handwood floors:

Schlüter-DITRA-SOUND is generally suitable for direct installation of ceramic coverings over hardwood floors. The floorboards must be securely fixed with screws. All installation of Schlüter-DITRA-SOUND must be continued prior to installing Schlüter-DITRA-SOUND.

Cut panels of Schlüter-DITRA-SOUND to size and fully emobilise the anchoring fleece in the applied adhesive. Immediately press this material into the adhesive with a final 1/2 to 1 mm roller, working in a single direction. Observe the curing time of all materials. It is best to precisely align the Schlüter-DITRA-SOUND panels to ensure a tight fit. The individual panels are set tightly next to one another. Scraps away any excess adhesive after 90 minutes. The adhesive on the bridge joints must be cleaned with a suitable support structure. The panels should have reached a balanced moisture level prior to the installation of Schlüter-DITRA-SOUND. Experts recommend the installation of an additional level of movement joint sections below the installation of other materials.

Synthetic coverings and coatings:

All surfaces must be load bearing and free of harmful or toxic substances and coatings over hardwood floors, provided the floorboards have tongues and grooves with connections, are sufficiently load bearing and clean and compatible with the adhesive. The substrates must be treated in such a way that the adhesive will bond with the substrates. This is particularly important to fully embedded tiles in accordance with the applicable professional standards. Various material transport) to protect the material into the adhesive with a final 1/2 to 1 mm roller, working in a single direction. Observe the curing time of all materials. It is best to precisely align the Schlüter-DITRA-SOUND panels to ensure a tight fit. The individual panels are set tightly next to one another. Scraps away any excess adhesive after 90 minutes. The adhesive on the bridge joints must be cleaned with a suitable support structure. The panels should have reached a balanced moisture level prior to the installation of Schlüter-DITRA-SOUND. Experts recommend the installation of an additional level of movement joint sections below the installation of other materials.

Handwood floors:

Schlüter-DITRA-SOUND is generally suitable for direct installation of ceramic coverings over hardwood floors. The floorboards must be securely fixed with screws. All installation of Schlüter-DITRA-SOUND must be continued prior to installing Schlüter-DITRA-SOUND.

Cut panels of Schlüter-DITRA-SOUND to size and fully emobilise the anchoring fleece in the applied adhesive. Immediately press this material into the adhesive with a final 1/2 to 1 mm roller, working in a single direction. Observe the curing time of all materials. It is best to precisely align the Schlüter-DITRA-SOUND panels to ensure a tight fit. The individual panels are set tightly next to one another. Scraps away any excess adhesive after 90 minutes. The adhesive on the bridge joints must be cleaned with a suitable support structure. The panels should have reached a balanced moisture level prior to the installation of Schlüter-DITRA-SOUND. Experts recommend the installation of an additional level of movement joint sections below the installation of other materials.

Synthetic coverings and coatings:

All surfaces must be load bearing and free of harmful or toxic substances and coatings over hardwood floors, provided the floorboards have tongues and grooves with connections, are sufficiently load bearing and clean and compatible with the adhesive. The substrates must be treated in such a way that the adhesive will bond with the substrates. This is particularly important to fully embedded tiles in accordance with the applicable professional standards. Various material transport) to protect the material into the adhesive with a final 1/2 to 1 mm roller, working in a single direction. Observe the curing time of all materials. It is best to precisely align the Schlüter-DITRA-SOUND panels to ensure a tight fit. The individual panels are set tightly next to one another. Scraps away any excess adhesive after 90 minutes. The adhesive on the bridge joints must be cleaned with a suitable support structure. The panels should have reached a balanced moisture level prior to the installation of Schlüter-DITRA-SOUND. Experts recommend the installation of an additional level of movement joint sections below the installation of other materials.
6.3 Schlüter®-DITRA-SOUND

Material

Schlüter®-DITRA-SOUND is a heavy polyethylene mat with a thickness of approx. 5.5 mm. A fleece fabric is laminated onto both sides of the mat. Polyethylene is not subject to mold growth and is durable in the long term so the product should not be stored in places with prolonged exposure to direct sunlight.

Properties and Areas of Application

Schlüter®-DITRA-SOUND may be used in wet- and dry installations. It is largely resistant to the effects of various solvents, salts, acids and alkalis, many organic solvents, and ionisable acids. The suitability of the material must be verified based on the anticipated concentration, temperature and length of exposure. The water vapour permeability of the material is relatively low. The material is physically, homogenous and inorganic. Schlüter®-DITRA-SOUND can be used in a wide range of different applications. In special cases, the suitability of the material must be verified based on the anticipated chemical and mechanical stresses. The information provided below is intended as a general guideline.

In combination with Schlüter®-KERDI, Schlüter®-DITRA-SOUND provides a waterproof assembly for ceramic tile and natural stone applications.

Substrates for Schlüter®-DITRA-SOUND:

Always check the substrates on which Schlüter®-DITRA-SOUND is to be used to make sure they are level, sound bearing, even and comparable to the thickness of the adhesive. The adhesive must bond well with the substrates on which it is to be used. Moreover, the self-adhesive edge strip Schlüter®-DITRA-SOUND must be able to cure hydraulically. The substrate must be free of all substances that may inhibit the bond. Any levelling must be completed prior to installing Schlüter®-DITRA-SOUND. The substrate must be securely screwed down. The wooden floorboards have tongue and groove connections over hardwood floors, provided the sound impact insulation on the substrate is in accordance with the applicable professional standards if high mechanical loads are expected. Heated screeds Schlüter®-DITRA-SOUND should be installed on a notched trowel (recommended size 3 x 3 mm or 4 x 4 mm), either with adhesive for permanent attachment or with movement joints. Please refer to the installation information for the various profile types in the Schlüter®-DITRA-SOUND product range for instructions on creating edge or corner joints at transitions to walls or eaves.

Concrete

Concrete is subject to long term dimensional changes due to curing process. Schlüter®-DITRA-SOUND is used, they may be installed after three months.

Wallcoverings

Wall panels made of materials that are specially treated to prevent the absorption of moisture. The thickness of the panel should be selected to ensure sufficient impact resistance in conjunction with the support structure. The panels must be securely screwed with screws. All screws should lie below the surface so that the covering adjoins walls and to keep the covering flat. Any overlapping or adhesion of covering materials to the substrate must be avoided. The screws must be spaced no more than 200 mm apart from one another. Scrape away any excess adhesives. The covering adjoins walls and other upright construction elements to the substrate. The screws must not touch the covering material or the covering adjoins a notched trowel (recommended size 3 x 3 mm or 4 x 4 mm).

Cut panels of Schlüter®-DITRA-SOUND to size and fully embed the anchoring fleece in the applied adhesive. Immediately press the adhesive into the glue with a flat on a roller. Wait a single edge for instructions on creating edge or corner joints at transitions to walls or eaves. Observe the curing time of all materials. It is best to proceed in line with the Schlüter®-DITRA-SOUND panel to ensure it is tight. The individual panels are not flight tight next to one another. Scrape away any excess adhesive.
Application and Function

Schlüter®-DITRA-SOUND is a bonded impact sound insulation for tile coverings, made of a heavy polyethylene mat, which has an anchoring fleece laminated on both sides to bond with the tile adhesive. This system was tested by an independent testing institute in accordance with the standard DIN EN ISO 140-8 (BS EN ISO 140-8).

As part of a complete assembly, an impact sound insulation improvement (ΔLW) of 13 dB was determined for Schlüter®-DITRA-SOUND. However, the actual impact sound reduction of an assembly depends on the local circumstances (construction system) and may differ from this value. Consequently, the determined test values cannot be applied to specific construction site situations.

The substrate must be level and ready to bear weight. Schlüter®-DITRA-SOUND is installed in adhesive that must be suitable for the substrate. The adhesive is applied with a notched trowel (recommended size 3 x 3 mm or 4 x 4 mm). The underside of Schlüter®-DITRA-SOUND (i.e. the printed side) is fully embedded in the adhesive, ensuring the mechanical anchoring of the fabric in the adhesive. The curing time of the adhesive must be taken into consideration.

The tiles are installed directly over Schlüter®-DITRA-SOUND in accordance with the applicable regulations, using the thin-bed method. The adhesive bonds with the fleece fabric on the topside of the mat. This results in the complete bonding of the entire system.

Impact sound

The transmission of noises caused by footstep or dropped objects to adjoining or underlying rooms is referred to as impact sound transmission. The floor/ceiling structure absorbs the structure borne noise and transmits the resulting impact sound in the form of airborne noise. The human ear perceives impact sound that is muffled by 10 dB as airborne noise which is reduced by 50%.

Impact sound (e.g. the noise generated by hard shoes) is also reflected back into the room. This effect is multiplied in the case of light constructions and hard surfaces, leading to the so-called drum roll effect. It can be completely eliminated by the high density of the heavy mat.

Product Overview:

Schlüter®-DITRA-SOUND
Bonded impact sound insulation

Material
Heavy polyethylene mat

Delivery format
550 x 750 mm = 0.41 m

Material thickness
Approximately 3.5 mm

Weight
Approximately 5.5 kg/m

Thermal conductivity
0.40 W/(m·K)

Area thermal insulation
0.007 m

Water vapour diffusion resistance rating
μ = 86000

Equivalent air layer thickness
s_d = 250 m

Building materials class
B2 acc. to DIN 4102

Schlüter®-DITRA-SOUND-RSK
Self-adhesive edge insulation strip

Roll
Height
6 mm

Schlüter®-DITRA-SOUND-KB
Adhesive tape to cover joints

Roll
Width
50 m

Text template for tenders:

m2 Schlüter®-DITRA-SOUND as a bonded sound insulation mat made of heavy polyethylene with anchoring fleece laminated on both sides to bond with the tile adhesive, to be supplied and professionally installed on a level and load bearing substrate, while observing the manufacturer’s instructions, to be fully embedded in

■ Tile adhesive selected by installer
■ Tile adhesive type ___________________________

including all required joint coverings and edge strips.

Material:_________________________ ....../m2

Labour:_________________________ ....../m2

Total:___________________________ ....../m2
Schlüter-Systems KG
Schmölestraße 7 · D-58640 Iserlohn · Tel.: +49 2371 971-261 · Fax: +49 2371 971-112 · www.schlueter-systems.com

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Application and Function

Schlüter®-DITRA-SOUND is a bonded impact sound insulation for tile coverings, made of a heavy polyethylene mat, which has an anchoring fleece laminated on both sides to bond with the tile adhesive. This system was tested by an independent testing institute in accordance with the standard DIN EN ISO 140-8 (BS EN ISO 140-8).

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However, the actual impact sound reduction of an assembly depends on the local circumstances (construction system) and may differ from this value. Consequently, the determined test values cannot be applied to specific construction site situations.

The substrate must be level and ready to bear weight. Schlüter®-DITRA-SOUND is installed in adhesive that must be suitable for the substrate. The adhesive is applied with a notched trowel (recommended size 3 x 3 mm or 4 x 4 mm). The underside of Schlüter®-DITRA-SOUND (i.e. the printed side) is fully embedded in the adhesive, ensuring the mechanical anchoring of the fabric in the adhesive. The curing time of the adhesive must be taken into consideration.

The tiles are installed directly over Schlüter®-DITRA-SOUND in accordance with the applicable regulations, using the thin-bed method. The adhesive bonds with the fleece fabric on the topside of the mat. This results in the complete bonding of the entire system.

Impact sound

The transmission of noises caused by foot steps or dropped objects to adjoining or underlying rooms is referred to as impact sound transmission. The floor/ceiling structure absorbs the structure borne noise and transmits the resulting impact sound in the form of airborne noise.

The human ear perceives impact sound that is muffled by 10 dB as airborne noise which is reduced by 50%.

Impact sound (e.g. the noise generated by hard shoes) is also reflected back into the room. This effect is multiplied in the case of light constructions and hard surfaces, leading to the so called drum roll effect. It can be completely eliminated by the high density of the heavy mat.