

## SLIP-PROOF PROPERTIES DETERMINATION OF SLIP-PROOF PROPERTIES

Many countries have specific regulations for classifying the slip hazards of a flooring, in order to prevent people from slipping and falling. As a general rule, the safety of a flooring depends on its slip-proof properties, the correct installation and cleaning of its surface. Additionally, when selecting a flooring, it is important that we also consider its conditions of use and as a consequence, its intended use.

a) **Standard DIN 51130 (Germany)**: this standard is applied for the classification of tiles according to their slipperiness in workplaces walked on with **footwear** (see table ...). The test makes use of a tilting ramp made from the material being tested, to which a lubricant agent is applied. It is then walked on by a test subject, wearing appropriate footwear. The test records the maximum inclination angle of the ramp at which the test subject still feels safe.

DIN 51130	Series	Angle of Inclination
R9	Arkasa - Brazil - Catalana - Contempora Sabbiato – Cube - Granigliati - Life - Maya(naturale e lappato) – Tinte unite - Pietra di Noto - Thermae (V4) - Tinte Unite – Wish	> 6° - 10° low friction
R10	Index - Langhe –Pianelle  -Piazze Romane - Quarzi - Terra e Fuoco	> 10° - 19° normal friction
R11	Design Fiammato - Life TXTD - Percorsi d'Italia (V4) - Pietre di Keope (V6)	> 19° - 27° increased friction
R12	Granigliati Strutturati (V4) L.Tecnica 20x20 Ant A (V6) L.Tecnica 20x20 Ant B (V4)	> 27° - 35° high friction
R13		> 35° very high friction

In the presence of substances that promote slipping, a flat and slip-resistant surface is not enough. In these cases, floorings are classified in relation to the displacement volume beneath the walking surface level, measured in cm<sup>3</sup>/dm<sup>2</sup>. The larger the volume, the safer the floor.



V4 4 cm<sup>3</sup>/dm<sup>2</sup> V6 6 cm<sup>3</sup>/dm<sup>2</sup> V8 8 cm<sup>3</sup>/dm<sup>2</sup>

Support level Containment volume V Drainage level



b) **Standard DIN 51097 (Germany)**: this standard is applied for the classification of tiles according to their slipperiness in areas walked on barefoot. The test and subsequent evaluation of the results are conducted as with standard DIN 51130, contaminating the tilting ramp with a solution of soap and water.

DIN 51097	Angle of Inclination
CLASS A	≥ 12°
CLASS B	≥18°
CLASS C	≥24°

DIN 51097	Series
CLASS A	Catalana – Life
CLASS A+B	Arkasa - Cube - Granigliati Strutturati - Index - Langhe - Pianelle - Piazze Romane - Quarzi - Terra e Fuoco - Wish
CLASS A+B+C	Cinque Terre - Design Fiammato - Imperatori - Life TXTD - Percorsi d'Italia - Pietre di Keope - Thermae - Titani - L. Tecnica 20x20 Ant A -L.Tecnica 20x20 Ant B

c) DM 236/89 (Italy): for certain categories of building, this Ministerial Decree requires that slip-resistant floorings are used, or specifically, floorings with a coefficient of friction, when both wet and dry, measured with the BCRA Rep. CEC 6-81 (British Ceramic Research Association) method, greater than 0.40 surface. The test is conducted using a portable instrument (TORTUS), which moves at a constant speed over the surface: the instrument measures the coefficient of friction produced during the test.



	SLIP-PROOF PROPERTIES	
	EDITED BY HVBG	
(The	German Federation of institutions for statury accident insurance and pro	evention)
0	Workplaces and rooms in general *	
0.1	Entrance areas, indoors **	R9
0.2	Entrance areas, outdoors	R11 o R10 V4
0.3	Stairs ***	R9
0.4	Outdoor stairs	R11 o R10 V4
0.5	Common areas (lavatory, locker rooms, showers)	R10
	Recreation rooms (work canteens, break rooms) First aid rooms	R9 R9
		K9
1	Production of margarine, edible fats and oils	
1.1	Melting fat	R13 V6
1.2	Edible oil refineries	R13 V4
1.3	Margarine production and packaging	R12
1.4	Edible fat production and packaging, and edible oil bottling	R12
2	Milk production and processing, cheese production	
2.1	Fresh milk processing and butter production	R12
2.2	Cheese production, storing and packaging	R11
2.3	Ice-cream production	R12
3	Chocolate and confectionery production	
3.1	Boiling sugar	R12
3.2	Cocoa production	R12
3.3	Base pastry production	R11
3.4	Chocolate bars, hollow confectionery and chocolates production	R11
4	Bakery production (bakeries, confectioners, bakery p	roducts with long shelf-life)
4.1	Pastry production	R11
4.2	Fats or other liquid materials processing areas	R12
4.3	Washing rooms	R12 V4
5	Meat butchering, transformation and processing	
5.1	Slaughterhouse	R13 V10
5.2	Offal and entrails processing area	R13 V10
5.3	Meat cutting up and boning	R13 V8
5.4	Sausagemeat preparation	R13 V8
5.5	Cooked cold-cut meat production	R13 V8
5.6	Cured cold-cut meat production	R13 V6
5.7	Cold-cut meat curing room	R12
5.8	Store for guts	R12
5.9	Brine area, smokehouse	R12
5.10 5.11	Poultry processing Meat and sliced product preparation and packaging	R12 V6 R12
5.11	Production rooms with outlet	R12 V8
0.12		
6	Fish processing and transformation, grillroom	
6.1	Fish processing and transformation	R13 V10
6.2	Grillroom	R13 V6
6.3	Mayonnaise production	R13 V4
7	Vegetable production and processing	
7.1	Sauerkraut production	R13 V6
7.2	Canned vegetable production	R13 V6
7.3	Sterilization rooms	R11
7.4	Preparation areas for vegetables to be processed	R12 V4
8	Wet production areas of foodstuffs and beverages	
8.1	Ageing and fermentation cellars	R10
8.2	Beverage bottling, fruit juice production	R11

9	Kitchens, dining halls	
9.1	Catering kitchens (restaurant or hotel kitchens)	
9.1.1	Up to 100 meals a day	R11 V4
9.1.2 9.2	Over 100 meals a day Kitchens in institutes, schools, kindergartens, sanatoriums	R12 V4 R11
9.3	Kitchens in hospitals and clinics	R12
9.4	Industrial kitchens for university and work canteens	R12 V4
9.5	Fast-food and snack-bar kitchens	R12 V4
9.6	Kitchens for defrosting and heating up meals	R10
9.7	Kitchens in companies, guesthouses and hospital units	R10
9.8 9.8.1	Washing-up areas Washing-up areas for facilities in points 9.1, 9.4, 9.5	R12 V4
9.8.2	Washing-up areas for facilities in point 9.2	R11
9.8.3	Washing-up areas for facilities in point 9.3	R12
9.9	Dining halls, restaurant rooms, work canteens, incl. corridors	R9
	used for supply and service	
10	Cold rooms, cold stores	
10.1	For unpacked goods	R12
10.2	For packed goods	R11
<b>11</b> 11.1	Points of sale, sales areas	
	Goods and meat delivery area For unpacked goods	R11
	For packed goods	R10
11.2	Goods and fish delivery area	R11
11.3		
	For unpacked goods	R11
11.3.2 11.4	For packed goods Staff corridor s for bakery and confectioner counter, unpacked goods	R10
11.4		R10
11.6	Staff corridors for fish counter	
	For unpacked goods	R12
	For packed goods	R11
11.7 11.8	Staff corridors, except areas from point 11.3 to 11.6	R9
	Meat preparation areas For meat processing, except areas mentioned in point 5	R12 V8
	For meat transformation, except areas mentioned in point 5	R11
	Areas for preparing bunches of flowers	R11
	Commercial spaces with fixed ovens	
	1For bakery production	R11
11.10.	2For heating up pre-packed food (bread, confectioneries)	R10
11.11	Commercial spaces with fixed fryers or grills	R12 V4 R9
11.12	Commercial spaces with fixed fryers or grills Commercial spaces, customer rooms Areas for preparation of self-service food	R10
11.14	Cash desk and packaging areas	R9
11.15	Outdoor commercial spaces	R11 o R10 V4
12	Public health/assistance rooms	
<b>12</b> 12.1	Public health/assistance rooms Disinfection rooms (with water)	R11
12	Public health/assistance rooms	
<b>12</b> 12.1 12.2 12.3 12.4	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units	R11 R10 R10 R10
<b>12</b> 12.1 12.2 12.3 12.4 12.5	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation	R11 R10 R10 R10 R11
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms	R11 R10 R10 R10 R11 R11 R10
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<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms	R11 R10 R10 R10 R11 R11
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms Operating theatres Hospital with in-house units and corridors	R11 R10 R10 R10 R11 R10 R10 R9
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<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms Operating theatres Hospital with in-house units and corridors Surgeries, day hospital Pharmacies	R11 R10 R10 R11 R10 R10 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms Operating theatres Hospital with in-house units and corridors Surgeries, day hospital Pharmacies Laboratories	R11 R10 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms Operating theatres Hospital with in-house units and corridors Surgeries, day hospital Pharmacies	R11 R10 R10 R11 R10 R10 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms Operating theatres Hospital with in-house units and corridors Surgeries, day hospital Pharmacies Laboratories	R11 R10 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9
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<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3	Public health/assistance rooms Disinfection rooms (with water) Prewashing sterilization rooms Rooms for the unit waste storage In-house units Rooms for thermal baths, hydrotherapy, mud preparation Washing area before entering operating theatres, plaster rooms Sanitary facilities, bathrooms in hospital units Rooms for medical diagnosis and therapy, massage rooms Operating theatres Hospital with in-house units and corridors Surgeries, day hospital Pharmacies Laboratories Hairdressing salons <b>Laundries</b> Rooms with washlines or washers/extractors Rooms where laundry isn't spin-dried Rooms for ironing	R11 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
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<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b>	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms with washlines or washers/extractors         Rooms for ironing         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production	R11 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .1	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms for ironing         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production         Tannery rooms with water delivery system	R11 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b>	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms for ironing         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production         Tannery rooms with water delivery system         Rooms with delleshing equipment	R11 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> 15.1 15.2	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms for ironing         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production         Tannery rooms with water delivery system	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .5 15.5	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms with washlines or washers/extractors         Rooms with washlines or washers/extractors         Rooms for ironing         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production         Tannery rooms with water delivery system         Rooms with delleshing equipment         Rooms with waste of hide tanning	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .1 15.2 15.3 15.4 15.5	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> Laundries Rooms with washlines or washers/extractors Rooms for ironing Concentrated feed production Dy feed production Concentrated feed production using water and fats Hides and textile production Rooms with waste of hide tanning Areas where hides are waterproofed with grease Textile dyeing	R11 R10 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.1 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .5 15.4 15.5 <b>16</b>	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms with washlines or washers/extractors         Rooms with washlines or washers/extractors         Rooms with washlines or washers/extractors         Rooms with vashlines or washers/extractors         Rooms with reproduction         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production         Tannery rooms with water delivery system         Rooms with waste of hide tanning         Areas where hides are waterproofed with grease         Textile dyeing         Lacquering/ Spray painting units <td>R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9</td>	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .1 15.2 15.3 15.4 15.5	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> Laundries Rooms with washlines or washers/extractors Rooms for ironing Concentrated feed production Dy feed production Concentrated feed production using water and fats Hides and textile production Rooms with waste of hide tanning Areas where hides are waterproofed with grease Textile dyeing	R11 R10 R10 R10 R11 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.1 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .5 15.4 15.5 <b>16</b>	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms with washlines or washers/extractors         Rooms with washlines or washers/extractors         Rooms with washlines or washers/extractors         Rooms with vashlines or washers/extractors         Rooms with reproduction         Concentrated feed production         Dry feed production         Concentrated feed production using water and fats         Hides and textile production         Tannery rooms with water delivery system         Rooms with waste of hide tanning         Areas where hides are waterproofed with grease         Textile dyeing         Lacquering/ Spray painting units <td>R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9</td>	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .5 <b>16</b> .1 15.5 <b>16</b> .1 15.5 <b>16</b> .1 17.1	Public health/assistance rooms         Disinfection rooms (with water)         Prewashing sterilization rooms         Rooms for the unit waste storage         In-house units         Rooms for thermal baths, hydrotherapy, mud preparation         Washing area before entering operating theatres, plaster rooms         Sanitary facilities, bathrooms in hospital units         Rooms for medical diagnosis and therapy, massage rooms         Operating theatres         Hospital with in-house units and corridors         Surgeries, day hospital         Pharmacies         Laboratories         Hairdressing salons         Laundries         Rooms with washlines or washers/extractors         Rooms with vashlines or washers/extractors         Rooms with washine of production         Dry feed production         Concentrated feed production using water and fats         Hides and textile producting         Rooms	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .1 15.2 15.3 15.4 15.5 <b>16</b> 16.1 15.7 17.8 17.9 17.1 17.9 17.1 17.9 17.1 17.1 17.1	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> <b>Laundries</b> Rooms with washlines or washers/extractors Rooms where laundry isn't spin-dried Rooms for ironing <b>Concentrated feed production</b> Dry feed production Concentrated feed production Tannery rooms with water delivery system Rooms with defleshing equipment Rooms with defleshing equipment Rooms with wase of hide tanning Areas where hides are waterproofed with grease Textile dyeing <b>Lacquering/ Spray painting units</b> Wet grinding units Ceramic tiles manufacturer Wet grinders of ceramic raw materials Mixers; processing materials such as tar, pitch,	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .1 15.1 15.2 15.3 15.4 15.5 <b>16</b> 16.1 <b>17</b> .1 17.2	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> <b>Laundries</b> Rooms with washlines or washers/extractors Rooms for ironing <b>Concentrated feed production</b> Dry feed production Concentrated feed production using water and fats <b>Hides and textile production</b> Tannery rooms with water delivery system Rooms with defleshing equipment Rooms with defleshing equipment Rooms with defleshing equipment Rooms with waste of hide tanning Areas where hides are waterproofed with grease Textile dyeing <b>Lacquering/ Spray painting units</b> Wet grinders of ceramic raw materials Mixers; processing materials such as tar, pitch, graphite, synthetic resins	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R11 R11 V4 R13 V10 R13 V10 R12 V10 R11 R11 V6
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.9 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .5 <b>16</b> .1 15.5 <b>16</b> .1 15.5 <b>16</b> .1 17.1	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> <b>Laundries</b> Rooms with washlines or washers/extractors Rooms for ironing <b>Concentrated feed production</b> Dy feed production Concentrated feed production using water and fats <b>Hides and textile production</b> Tannery rooms with water delivery system Rooms with defleshing equipment Rooms with defleshing equipment Rooms with defleshing equipment Rooms with defleshing equipment Rooms with waste of hide tanning Areas where hides are waterproofed with grease Textile dyeing <b>Lacquering/ Spray painting units</b> Wet grinding units <b>Ceramic tiles manufacturer</b> Wet grinders of ceramic raw materials Mixers; processing materials such as tar, pitch, graphite, synthetic resins Pressing (moulding); processing materials such as tar, pitch, graphite, synthetic resins	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.10 12.11 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 14.2 <b>15</b> .1 15.1 15.2 15.3 15.4 15.5 <b>16</b> 16.1 <b>17</b> .1 17.2	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> Laundries Rooms with washlines or washers/extractors Rooms for ironing Concentrated feed production Dry feed production Concentrated feed production Dry feed production Concentrated feed production Tannery rooms with water delivery system Rooms with defleshing equipment Rooms with defleshing equipment Rooms with waste of hide tanning Areas where hides are waterproofed with grease Textile dyeing Lacquering/ Spray painting units Wet grinding units Ceramic tiles manufacturer Wet grinders of ceramic raw materials Mixers; processing materials such as tar, pitch, graphite, synthetic resins Pressing (moulding); processing materials such as tar, pitch, graphite, synthetic resins Casting units	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R11 R11 V4 R13 V10 R13 V10 R12 V10 R11 R11 V6
<b>12</b> 12.1 12.2 12.3 12.4 12.5 12.6 12.7 12.8 12.1 12.12 12.13 12.14 <b>13</b> 13.1 13.2 13.3 <b>14</b> 14.1 15.2 15.3 15.4 15.5 <b>16</b> 16.1 <b>17</b> 17.1 17.2 17.3	<ul> <li>Public health/assistance rooms</li> <li>Disinfection rooms (with water)</li> <li>Prewashing sterilization rooms</li> <li>Rooms for the unit waste storage</li> <li>In-house units</li> <li>Rooms for thermal baths, hydrotherapy, mud preparation</li> <li>Washing area before entering operating theatres, plaster rooms</li> <li>Sanitary facilities, bathrooms in hospital units</li> <li>Rooms for medical diagnosis and therapy, massage rooms</li> <li>Operating theatres</li> <li>Hospital with in-house units and corridors</li> <li>Surgeries, day hospital</li> <li>Pharmacies</li> <li>Laboratories</li> <li>Hairdressing salons</li> </ul> <b>Landries</b> Rooms with washlines or washers/extractors Rooms with washlines or washers/extractors Rooms with washlines or washers/extractors Rooms with vashlines or washers/extractors Rooms with washlines or washers/extractors Rooms with vash tell production Dry feed production Concentrated feed production using water and fats <b>Hides and textile production</b> Tannery rooms with water delivery system Rooms with defleshing equipment Rooms with waste of hide tanning Areas where hides are waterproofed with grease Textile dyeing <b>Lacquering/ Spray painting units</b> Wet grinding units <b>Ceramic tiles manufacturer</b> Wet grinders of ceramic raw materials Mixers; processing materials such as tar, pitch, graphite, synthetic resins Pressing (moulding); processing materials such as tar, pitch, graphite, synthetic resins	R11 R10 R10 R10 R10 R10 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9 R9

18	Stone and glass processing and working	
18.1 18.2	Stone cutting and grinding Glass shaping: blowing, glass for jars, glass for building industry	R11 R11
18.3	Hollow glass and glass plate grinding units	R11
18.4 18.5	Insulating glass production; use of desiccants Glass plate packaging and dispatching, use of release agents	R11 V6 R11 V6
18.6	Glass acid polishing plant	R11 V0
19	Cement factories	
19.1	Cement washing areas	R11
20	Warehouses	
20.1	Oil and fat warehouses	R12 V6
20.2 20.3	Canned food warehouses Outdoor warehouses	R10 R11 o R10 V4
21	Chemical and thermal treatments for iron and metal	
21.1	Pickling units	R12
21.2	Hardening units	R12
21.3	Laboratories	R11
22	Metal machining and processing	D40
22.1 22.2	Galvanizing units Cast iron machining	R12 R11 V4
22.3	Machining units (for ex. turning, milling), moulding units, drawing (pipe	
22.4	Parts washing units, steam treatment	R12
23	Vehicle repair shops	
23.1 23.2	Service and repair units Service and inspection pits	R11
23.3	Washing room and areas	R12 V4
24	Aircraft repair plants	R11 V4
24.1	Aircraft hangars	
24.2 24.3	Servicing plants Washing areas	R11 R12
20		R11 V4
<b>25</b> 25 1	Waste water treatment plants	
25.1 25.2	Pumping rooms Sludge dewatering units	R11
25.1	Pumping rooms	R11 R12
25.1 25.2 25.3 <b>26</b>	Pumping rooms Sludge dewatering units Filtering plant units Fire stations	R11
25.1 25.2 25.3 <b>26</b> 26.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks	R11 R12 R12
25.1 25.2 25.3 <b>26</b> 26.1 26.2	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas	R11 R12
25.1 25.2 25.3 <b>26</b> 26.1 26.2 <b>27</b>	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks	R11 R12 R12 R12 R12
25.1 25.2 25.3 <b>26</b> 26.1 26.2 <b>27</b> 27.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas	R11 R12 R12 R12
25.1 25.2 25.3 <b>26</b> 26.1 26.2 <b>27</b> 27.1 <b>28</b>	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages	R11 R12 R12 R12 R12 R9
25.1 25.2 25.3 <b>26</b> 26.1 26.2 <b>27</b> 27.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages not exposed to the weather Garages exposed to the weather	R11 R12 R12 R12 R12
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages not exposed to the weather	R11 R12 R12 R12 R12 R9 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages not exposed to the weather Garages exposed to the weather	R11 R12 R12 R12 R12 R9 R10 R10 o R10 V4
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29 29.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.1 29.2 29.3 29.4 29.5	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9)	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R9 R9 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4 29.5 29.6 29.7	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9) Kindergarten kitchens (see n°9) Wood machine areas	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R9 R9 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R10 R10 R10 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas Playgrounds	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R9 R9 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages Mot exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kindergarten kitchens (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas Playgrounds	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R10 R10 R10 R10 R10 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 300 30.1 30.2	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas Playgrounds Company outdoor environments Pavements Loading ramps	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R10 R10 R10 R10 R10 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 30 30.1 30.2 30.2.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages not exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas Playgrounds Company outdoor environments Pavements Loading ramps Sheltered	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R10 R10 R10 R10 R10 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.3 29 29.1 29.2 29.3 29.4 29.5 29.4 29.5 29.4 29.5 29.4 29.7 29.8 29.9 30.1 30.2 30.2 30.2 30.3	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages on exposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kitchens for practical sessions in schools (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas Playgrounds Company outdoor environments Pavements Loading ramps Sheltered Sloping loading ramps (for wheelchairs for ex)	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R10 R10 R10 R10 R10 R10 R10 R10 R10 R10
25.1 25.2 25.3 26 26.1 26.2 27 27.1 28 28.1 28.2 28.3 29.1 29.2 29.3 29.4 29.5 29.6 29.7 29.8 29.9 300 30.2 30.2 30.2.1 30.2.2 30.3 30.4.1	Pumping rooms Sludge dewatering units Filtering plant units Fire stations Vehicle parks Fire hose maintenance areas Banks Window areas Garages Garages Garages Motexposed to the weather Garages exposed to the weather Outdoor car parks Schools and kindergartens Entrance areas, corridors, recreation rooms Classrooms Stairs Toilet and lavatory Kindergarten kitchens (see n°9) Kindergarten kitchens (see n°9) Wood machine areas Practical work areas Playgrounds Company outdoor environments Pavements Loading ramps Sheltered Not sheltered	R11 R12 R12 R12 R9 R10 R11 o R10 V4 R11 o R10 V4 R9 R9 R9 R9 R9 R10 R10 R10 R10 R10 R10 R10 R10 R10 R10

Edited by: HVBG - (The German Federation of institutions for statutory accident insurance and prevention)

\* For floors in wet areas to be walked on barefoot, please refer to informative report GUV-I 8527.

\*\* The entrance areas in n°'0.1 are directly accessible from the outside; moisture or dirt can enter or be carried in.

 $^{\star\star\star}$  Stairs where moisture or dirt can enter or be carried in.