












Use Area Classification System ISO 10874:2009

Symbol	Class	Usage	Description	Examples of usage
Domestic – Areas intended for private usage				
	21	moderate	Areas with low or occasional usage	Bedrooms
	22	general	Areas with medium usage	Living rooms, entrance halls
	22+	general	Areas with medium to heavy usage	Living rooms, entrance halls, dining rooms and corridors
	23	heavy	Areas with high usage	Living rooms, entrance halls, dining rooms and corridors
Commercial - Areas intended for public and commercial usage				
	31	moderate	Areas with low or occasional usage	Hotels, bedrooms, conference rooms, small offices
	32	general	Areas with medium traffic	Classrooms, small offices, hotels, boutiques
	33	heavy	Areas with heavy traffic	Corridors, department stores, lobbies, schools, large /open plan offices
	34	very heavy	Areas with intense usage	Multipurpose halls, counter halls, department stores
Industrial – Areas intended for usage by light industry				
	41	moderate	Areas where work is mainly sedentary with occasional usage of light vehicles.	Electronic assembly, precision / light engineering
	42	general	Areas in where work is mainly standing and/or with vehicle traffic.	Storage rooms, electronic assembly
	43	heavy	Other industrial areas	Storage rooms, production halls

EN 649 Classification of resilient floor coverings

Wear group			T	P	M	F
Thickness loss	mm	EN 660-1	≤ 0.08	≤ 0.15	≤ 0.30	≤ 0.60
Volume loss	mm ³	EN 660-2	≤ 2.0	≤ 4.0	≤ 7.5	≤ 15.0

Floor coverings with transparent wear layer automatically belong to wear group T - without testing!

The class for the application can be read off from the wear group and

- for homogeneous floor coverings, from the floor covering thickness
- for heterogeneous floor coverings, from the wear layer thickness and the floor covering thickness in Table 2.

Table 2

DomesticCommercialIndustrial													
Classification requirements				Mod- erate	Gen- eral	Heavy	Mod- erate	Gen- eral	Heavy	Very Heavy	Mod- erate	Gen- eral	Heavy
				21	22	23	31	32	33	34	41	42	43
Homogeneous products (Total product thickness)		mm	T	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
		mm	P	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
		mm	M	1.0	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
		mm	F	1.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.5	2.5
Heterogeneous / Luxury vinyl plank or tile (Wear layer thickness)		mm	T	0.15	0.20	0.30	0.30	0.40	0.40	0.55	0.55	0.70	0.70
		mm	P	0.25	0.35	0.45	0.45	0.55	0.55	0.70	0.70	1.00	1.00
		mm	M	0.40	0.50	0.65	0.65	0.80	0.80	1.00	1.00	1.50	1.50
		mm	F	0.60	0.80	1.00	1.00	1.20	1.20	1.50	1.50	2.00	2.00

Classification of polyvinyl floor coverings with a foam layer

The class for the application can be read off with the wear group (Table 1) and then from the wear layer thickness (Table 3).

Table 3

				Domestic			Commercial			Industrial			
Classification requirements				Mod- erate	Gen- eral	Heavy	Mod- erate	Gen- eral	Heavy	Very Heavy	Mod- erate	Gen- eral	Heavy
				21	22	23	31	32	33	34	41	42	43
Wear layer thickness		mm	T	0.15	0.20	0.25	0.25	0.35	0.35	0.50	0.50	0.65	-
		mm	P	0.20	0.30	0.40	0.40	0.50	0.50	0.65	0.65	1.00	-
		mm	M	0.30	0.45	0.60	0.60	0.75	0.75	1.00	1.00	1.50	-

Classification of PVC floor coverings with particle based enhanced slip resistance

Table 4

Table 1												
Classification requirements			Domestic			Commercial			Industrial			
			Mod- erate	Gen- eral	Heavy	Mod- erate	Gen- eral	Heavy	Very Heavy	Mod- erate	Gen- eral	Heavy
			21	22	23	31	32	33	34	41	42	43
Minimum total thick- ness		mm	1.0	1.5	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0
Wear resistance*	EN 13845 Annex D	Cycles	20000	20000	20000	20000	30000	30000	40000	40000	50000	50000

*Testing should be carried out according to EN 660-2. The particles of the surface of the floor covering must not show a reduction of more than 10% after the number of test cycles.

Classification of plain and decorative linoleum floor coverings

Linoleum floor coverings are solely classified according to the floor covering thickness:

Table 5

Table 3												
Classification requirements			Domestic			Commercial			Industrial			
			Mod- erate	Gen- eral	Heavy	Mod- erate	Gen- eral	Heavy	Very Heavy	Mod- erate	Gen- eral	Heavy
			21	22	23	31	32	33	34	41	42	43
Nominal thickness		mm	2.0	2.0	2.0	2.0	2.0	2.0*	2.5*	2.5*	2.5*	**
* When selecting the floor covering thickness in classes 33/34 and 41/42 the expected type and intensity of usage should be taken into account; this may possibly call for a thicker linoleum floor covering.												

Classification of plain and decorative linoleum floor coverings with corkment backing

Table 6

Table 3												
Classification requirements			Domestic			Commercial			Industrial			
			Mod- erate	Gen- eral	Heavy	Mod- erate	Gen- eral	Heavy	Very Heavy	Mod- erate	Gen- eral	Heavy
			21	22	23	31	32	33	34	41	42	43
Nominal thickness of linoleum layer		mm	1.5	1.5	1.5	1.5	1.5	2.0	2.0	-	-	-