GALVANIZED GRATING WITH FRAME

INDEX

1. CODE REGISTRY

Code	Description	Load class *	Measures (mm)	Weight (kg/pcs.)	Color	Pkg. / Pallet
ZIN09-6900	Galvanized grating with frame	Classe 2	200 x 200	1,39	Steel	12 Pcs. / 720 Pcs.
ZIN09-6901	Galvanized grating with frame	Classe 2	250 x 250	1,85	Steel	12 Pcs. / 576 Pcs.
ZIN09-6902	Galvanized grating with frame	Classe 1	300 x 300	2,49	Steel	12 Pcs. / 432 Pcs.
ZIN09-6903	Galvanized grating with frame	Classe 1	350 x 350	3,11	Steel	12 Pcs. / 324 Pcs.
ZIN09-6904	Galvanized grating with frame	Classe 1	400 x 400	3,99	Steel	12 Pcs. / 216 Pcs.
ZIN09-6905	Galvanized grating with frame	Classe 1	450 x 450	4,78	Steel	12 Pcs. / 144 Pcs.
ZIN09-6906	Galvanized grating with frame	Classe 1	500 x 500	5,37	Steel	12 Pcs. / 144 Pcs.
ZIN09-6907	Galvanized grating with frame	Classe 1	550 x 550	6,28	Steel	12 Pcs. / 144 Pcs.
ZIN09-6908	Galvanized grating with frame	Classe 1	600 x 600	7,54	Steel	12 Pcs. / 144 Pcs.

MATERIAL Made of electro-welded galvanized steel.

* vedi punto 4

2. DESCRIPTION

Complete grill with frame, featuring a 25x38 mm plate/torch and 34x38 mm mesh

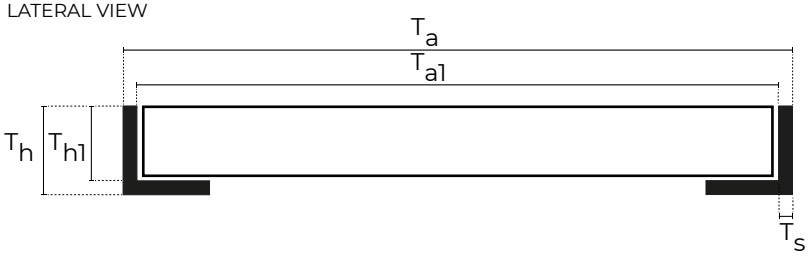
3. USE

Used for the collection and runoff of rainwater, washing and/or wastewaters. The anti-heel mesh is recommended for the use in areas with high pedestrian traffic.

GALVANIZED GRATING WITH FRAME

FRAME

LATERAL VIEW

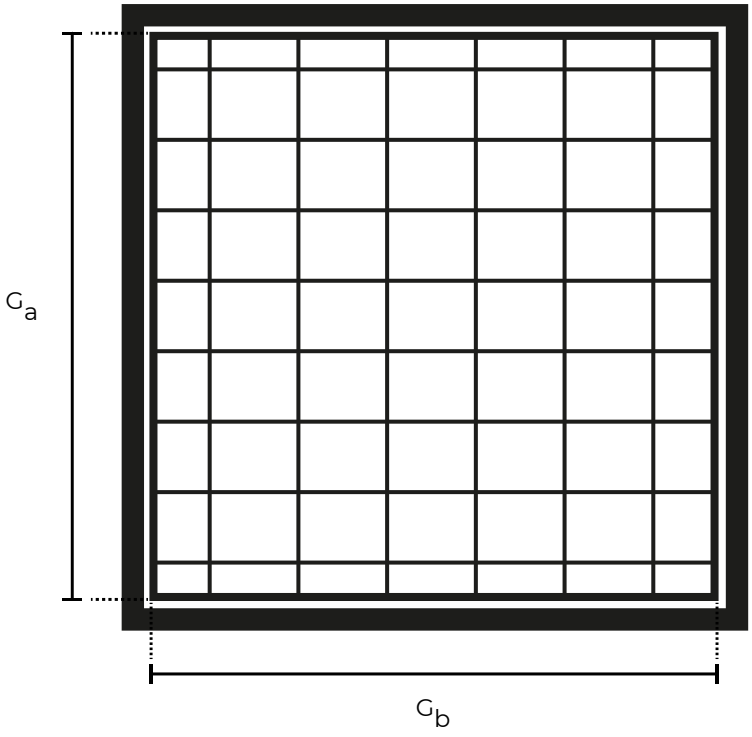


Frame (T)							
Code	ext. measures * mm			int. measures * mm			thickness sheet mm
	T_a	T_b	T_h	T_{a1}	T_{b1}	T_{h1}	T_s
ZIN09-6900	200	200	27	196	196	25	2
ZIN09-6901	250	250	27	246	246	25	2
ZIN09-6902	300	300	27	296	296	25	2
ZIN09-6903	350	350	27	346	346	25	2
ZIN09-6904	400	400	27	396	396	25	2
ZIN09-6905	450	450	27	446	446	25	2
ZIN09-6906	500	500	27	496	496	25	2
ZIN09-6907	550	550	27	546	546	25	2
ZIN09-6908	600	600	27	596	596	25	2

* tolleranza ± 2 mm

GRATING

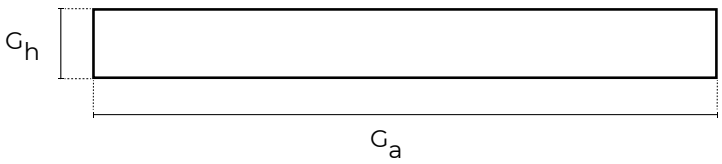
TOP VIEW



Grating (G)				
Code	ext measures * mm			Grating mm
	G_a	G_b	G_h	
ZIN09-6900	190	190	25	34x38
ZIN09-6901	240	240	25	34x38
ZIN09-6902	290	290	25	34x38
ZIN09-6903	340	340	25	34x38
ZIN09-6904	390	390	25	34x38
ZIN09-6905	440	440	25	34x38
ZIN09-6906	490	490	25	34x38
ZIN09-6907	540	540	25	34x38
ZIN09-6908	590	590	25	34x38

* tolleranza ± 2 mm

LATERAL VIEW



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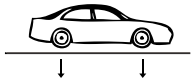
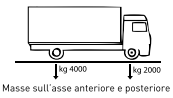
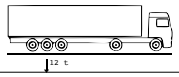
4. LOAD CLASS

Electrofused and/or pressed grating panels are divided into the following load-bearing classes:
- Class 1: Pedestrian load
- Classes 2–3–4: Road vehicle load

Each class is determined by two key factors:
- THE LOAD
- THE FOOTPRINT

For load-bearing class 1, the load is considered to be uniformly distributed over the entire surface of the panel (Fig. 1) and does not include any other specific loads.
For load-bearing classes 2, 3, and 4, the load is considered to be applied to the footprint corresponding to its respective class (Fig. 2). The loads and footprints were selected based on the total ground masses at full load and the load distribution per footprint of the various types of vehicles currently in circulation. The intended use of the panels must be specified by the client. The dynamic load was obtained by multiplying the static ground masses by an average dynamic coefficient of 1.5 in accordance with standard technical specifications.

PEDESTRIAN TRAFFIC		
CLASS	**LOAD CLASS**	**DYNAMIC LOAD (daN/m2) 1daN =~1Kg**
CLASS 1 	DENSE CROWN (pedestrian load)	Dynamic load 600 daN/m²

LOADING OF ROAD VEHICLES		
CLASS	**LOAD CLASS**	**DYNAMIC LOAD (daN/m2) 1daN =~1Kg**
CLASS 2 	TRANSIT LIMITED TO PASSENGER CARS	Total ground mass (static) up to 3,000 kg. Dynamic load 1,000 daN on a 200x200 footprint
CLASE 3  Masse sull'asse anteriore e posteriore	TRANSIT LIMITED TO LIGHT TRUCKS	Total ground weight (static) up to 6,000 kg. Dynamic load: 3,000 daN on a 400x400 footprint
CLASS 4 	TRANSIT OF ARTICULATED TRUCKS	Total ground weight (static) up to 45,000 kg. Dynamic load 9,000 daN on a footprint of 600x250

5. GALVANIZED STEEL PROFILES AND SECTIONS: INSTRUCTION FOR USE

All carbon steel products and profiles in the DAKOTA catalog undergo a galvanization process, which involves applying a zinc coating to the materials (known as galvanizing) to protect them from oxidation.

However, the product's lifecycle does not end with production; rather, it is used in various environments and applications, with its final placement in flooring and structures exposed to various potential critical conditions that can significantly damage the protective zinc coating, leading to the onset of rust. These are some of the most common critical conditions:

- The installation of DAKOTA galvanized steel products involves the use, depending on the installer and intended application, of concrete, adhesives, fillers, cement mortars, etc.
- Once installed, DAKOTA galvanized steel products may come into contact with cleaning products of various chemical compositions used to clean surfaces and adjacent joints;
- The locations where they are installed may present varying levels and situations of high environmental corrosivity;

Laboratory tests have concluded that both installation and cleaning products with a pH lower than 6 or higher than 11 can compromise the zinc coating and trigger the oxidation process of the steel, leading to deterioration and ultimately the destruction of the product.

Therefore, it is essential that:

- Both the installer and the end user thoroughly and proactively verify the technical specifications provided by the manufacturer of the adhesives and/or cleaning products to be used
- The installer must protect the galvanized steel parts to prevent them from coming into contact with adhesives, grouts, and/or cleaning agents capable of damaging them
- The designer, installer, maintenance technician, and end user must be aware of the need to use stainless steel products as an alternative to galvanized steel in areas where environmental corrosivity is high.

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6. TECHNICAL SPECIFICATION

Item	Description	U.M.	Price
Dak.D.ZIN09.690x	Supply and installation of a grating complete with frame, featuring 25 x 2 mm bars and a 34 x 38 mm mesh. Made of hot-dip galvanized, electrically welded steel. Used for the collection and drainage of rainwater, wash water, and/or wastewater.		
Dak.D.ZIN09.6900	Dimensions 200 x 200 mm	pz.	-
Dak.D.ZIN09.6901	Dimensions 250 x 250 mm	pz.	-
Dak.D.ZIN09.6902	Dimensions 300 x 300 mm	pz.	-
Dak.D.ZIN09.6903	Dimensions 350 x 350 mm	pz.	-
Dak.D.ZIN09.6904	Dimensions 400 x 400 mm	pz.	-
Dak.D.ZIN09.6905	Dimensions 450 x 450 mm	pz.	-
Dak.D.ZIN09.6906	Dimensions 500 x 500 mm	pz.	-
Dak.D.ZIN09.6907	Dimensions 550 x 550 mm	pz.	-
Dak.D.ZIN09.6908	Dimensions 600 x 600 mm	pz.	-