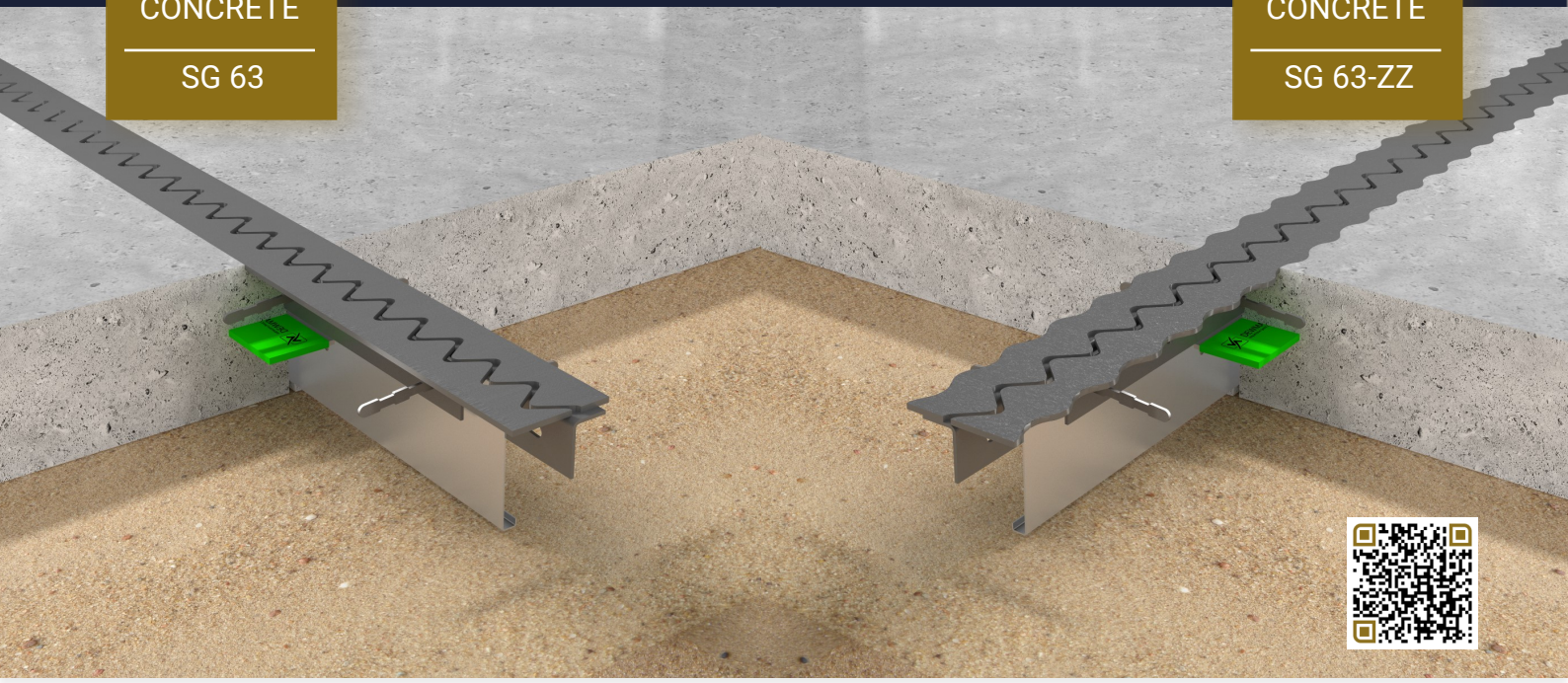
DEWMARK CONCRETE

SG 63

DEWMARK CONCRETE

SG 63-ZZ



Description

Profile for concrete joints with flat sinus top plates. Due to its geometry, it allows impact-free passage through the expansion gap, even with steel wheels, increasing the performance of the concrete floor while reducing vibration and noise during the expansion gap.

The profiles are designed for loads according to TR 34 4th edition and Eurocode 2: EN 1992-1-1.

Together with the load transfer system, it allows two adjacent slabs to be in one plane even with a gap opening of 20 mm.

Produced with two types of top plates to choose from: straight side edges (type SG 63) and corrugated side edges to increase the resistance of floors to dynamic loads (type SG 63-ZZ)

It perfectly reinforces the edges of the concrete on both sides of the shrinkage joint and serves as a reliable system for transferring loads during storage and when the equipment passes through the joints.

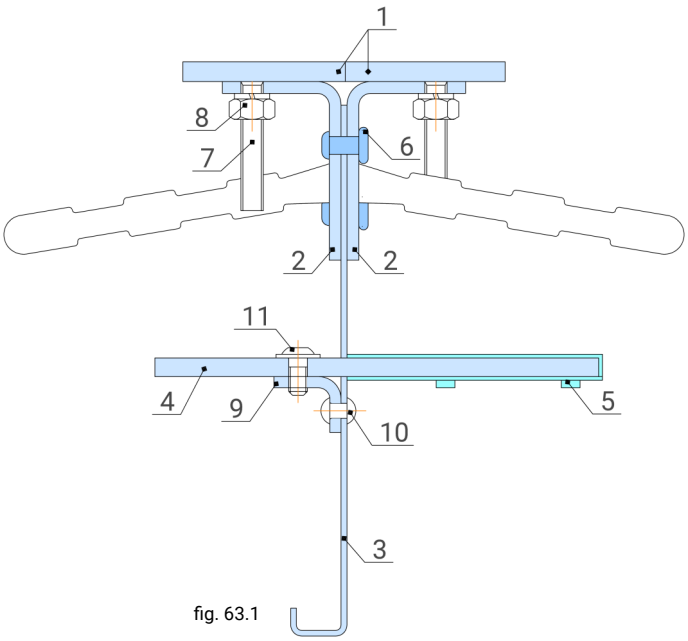


fig. 63.1

	Components (specification) Tab. 63.1
1	Steel flat sinus plates (2 types)[1]
2	Steel guide brackets
3	Profile body
4	Load transfer dowel (3 types)[3]
5	Dowel steel casing
6	Riveted fasteners
7	Welded screw
8	Nut
9	Dowel mounting bracket
10	Steel rivet
11	Fixing screw

[1] It is available in two types of top plates:
- SG 63 - with straight side edges;
- SG 63-ZZ - with wavy sides.

[2] The type of the dowels, depending on the loads, 5 or 8 mm (see Calculation of loads).

DIMENZIÓK ÉS MŰSZAKI ADATOK

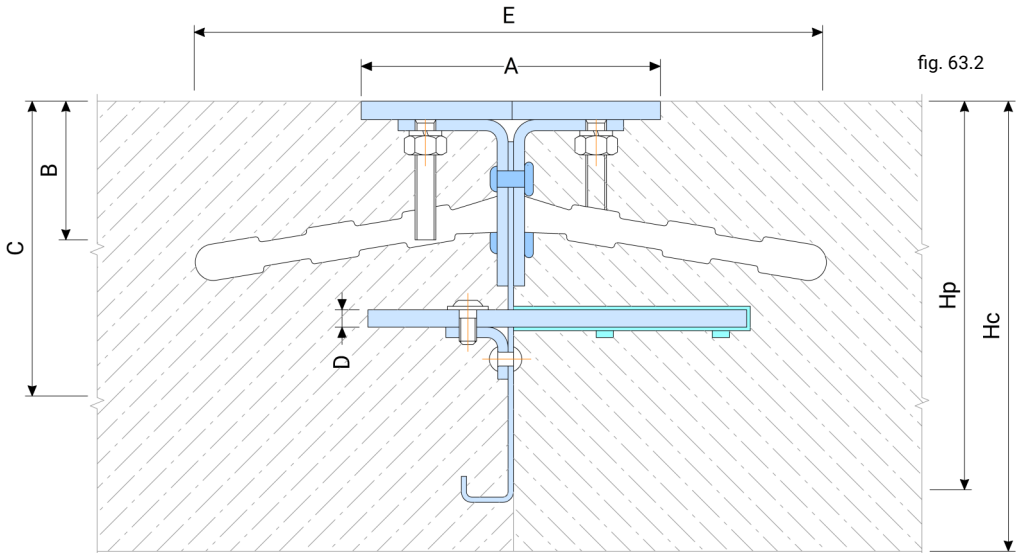


fig. 63.2

Tab. 63.2

Profile	Hp (mm)	Hc (mm)	A (mm)	B (mm)	C (mm)	D (mm)	E[1] (mm)	u/c[2] (mm)	c/c[3] (mm)	L (mm)
SG 63/90-...[1]	90	100-120	80	220	5	55	5 / 8 / 8XL	220	600 / 500	3000
SG 63/110-...[1]	110	125-140	80	220	5	60	5 / 8 / 8XL	220	600 / 500	3000
SG 63/130-...[1]	130	145-160	80	220	5	70	5 / 8 / 8XL	220	600 / 500	3000
SG 63/150-...[1]	150	165-180	80	220	5	80	5 / 8 / 8XL	220	600 / 500	3000
SG 63/180-...[1]	180	185-210	80	240	5	100	5 / 8 / 8XL	220	600 / 500	3000
SG 63/210-...[1]	210	215-240	80	260	5	110	5 / 8 / 8XL	220	600 / 500	3000
SG 63/240-...[1]	240	245-270	80	260	5	125	5 / 8 / 8XL	220	600 / 500	3000
SG 63/270-...[1]	270	275-300	80	260	5	140	5 / 8 / 8XL	220	600 / 500	3000

[1] ... — Dowel thickness and type. Selected depending on the loads (see Calculation of loads).
[2] c/c — Distance between dowel centers (600 mm for 60/OP-5 and 60/OP8, 500 mm for 60/OP8XL— see Calculation of loads).
[3] — Profiles can be produced to any height on request.

PARTS MATERIALS AND MANUFACTURING METHODS (as per specification)

Tab. 63.3

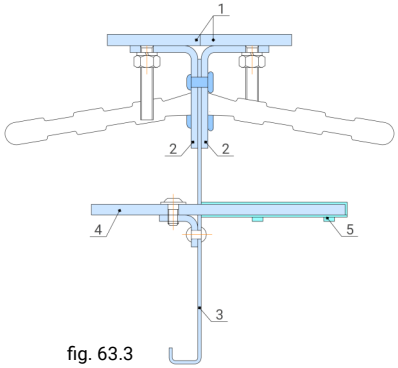


fig. 63.3

Profile	№	Component	Steel	EN	Manufacturing method
		Steel sinus strip (5 mm)	S235J0	10051	Laser cutting
	1	+ hot-dip galvanized HDG*	S235J0	10051	+ galvanized according EN 1461
		+ steel strips AISI 304*	1.4016	10088-2	Laser cutting
	2	Steel angle	S235J0	13918:2017	Stamping, bending
	3	Profile body	DC01	10130:2006	Stamping, bending
		Dowel	S355J0	10025-2	Laser cutting
	4	+ hot-dip galvanized HDG*	S355J0	10025-2	+ galvanized according EN 1461
		+ steel strips AISI 304*	1.4016	10088-2	Laser cutting
	5	Dowel casing	DC01	10130:2006	Stamping, bending

* — On request, the profiles can be fully or partially produced from corrosion-resistant steels: hot-dip galvanized (HDG) structural steels or stainless (AISI 304) steels. In this case, special designations are added to the profiles:

For **HDG**	For **AISI 304**
HDG — the upper strips are galvanized;	SS — upper strips made of AISI 304 steel;
HHDG — the upper strips with anchors + dowels are galvanized;	HSS — upper strips + dowels made of AISI 304 steel;
FHDG — the profile is fully galvanized.	FSS — profile made entirely of AISI 304 steel.

MANUFACTURING TOLERANCES

Tab. 63.4

Length	±0,1 mm	Height	±1 mm	Straightness	±0,5 mm/m	Curl	<0,5^0/m