AVI

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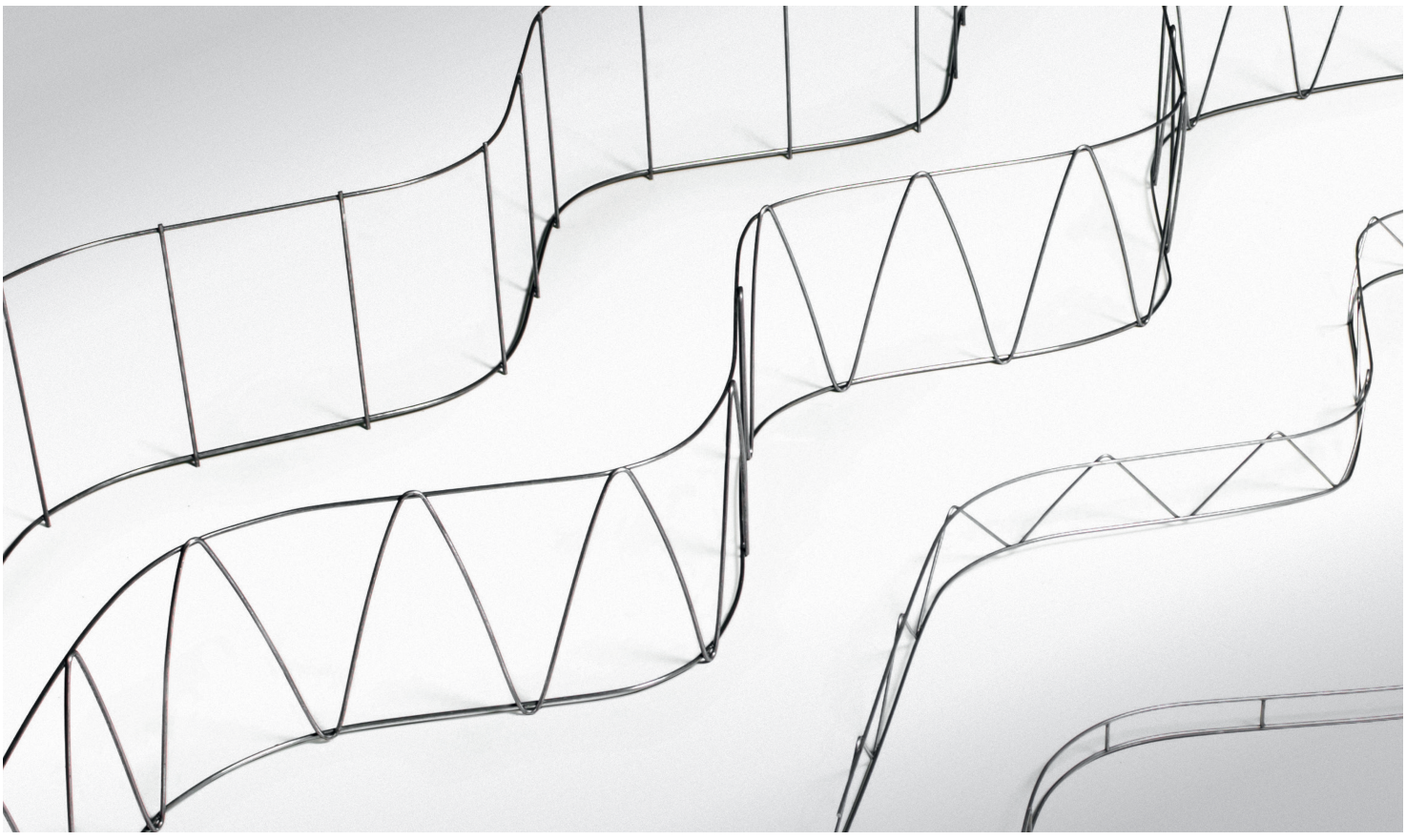
SPACER STRIPS

ECONOMIC MULTI-USE SPACER ELEMENT FOR REINFORCEMENT



SPACER BETWEEN TWO REINFORCEMENT LAYERS

DESCRIPTION

The AVI spacer strip is a multi-use spacer element bent sinuously out of a flat lattice girder. This gives the spacer strip considerable stability in the upright position and, at the same time, provides a firm support for the adjacent layers of reinforcement. The advantage of such spacers between top and bottom reinforcement of slabs as well as between outer and inner reinforcement of walls is the fact that they do not come into contact with the formwork, thus avoiding iron stains on the exposed concrete surface.

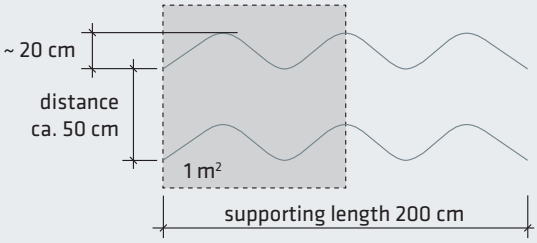
PRODUCT RANGE

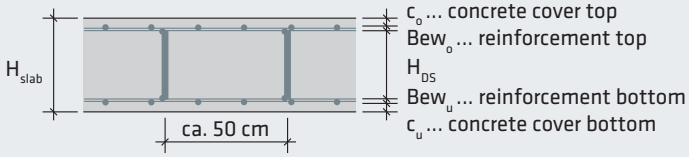
The product range comprises heights from 3–50 cm. The spacer strips are produced in heights between 4 cm and 20 cm as lattice girders with diagonal wires at constant spacing (15 cm) and variable height.
For a height of 3 cm and from H = 22 cm to 50 cm the spacer strips are produced in the shape of a ladder.

Product Advantages:

- for bar reinforcement and for fabric sheet reinforcement
- fine lattice girder system
- no foreign body in concrete
- lightweight
- design in conformity with German DBV guidelines

(DBV leaflet „Unterstützungen“: F_{Rd} = 0,67 kN/m)

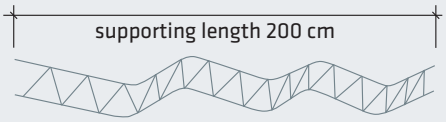




height of spacer: $H_{DS} = H_{slab} - (c_u + Bew_u + Bew_o + c_o)$

The following example shows the advantages of AVI spacer strips in comparison with stirrup spacers:

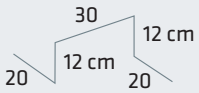
VARIANT A 1 **ecoDS 12** per m²



→ **0,615 kg/m²**

↑ **SAVING 82 %**

VARIANT B 4 stirrup spacers Ø 12 mm/m²
Weight: 4 x 0.94 m x 0.888 kg/m



→ **3,34 kg/m²**

- By applying AVI spacer strips only approx. **1/5 of the weight of stirrup spacers** will be required
- High stability on account of spacer strips (lots of strutting points per m²)
- Significantly reduced working time on site
- No more strenuous bending of 3-dimensional stirrup spacers

REQUIREMENTS FOR LAYING

For the laying of spacer strips a distance of approx. 50 cm between strips is recommended. This corresponds to approx. 1 strip per m^2 of top reinforcement. In case of thicker top reinforcement it is possible to widen the pitch between strips for laying. Supporting length: 200 cm

The spacer strip also contributes to transfer shear forces, e.g. in construction joints, slab edges, lintels, etc.
On account of the small wire diameters, the spacer strip can be bent into any direction.

AVI-DS PRODUCT RANGE – IN CONFORMITY WITH DBV

Type	Height	Weight	Bundles		Type
	cm	kg/unit	Small Bundle	Large Bundle	*)
DS 03	3	0,47	25	1000	V
ecoDS 04	4	0,52	25	1000	D
ecoDS 05	5	0,53	25	500	D
ecoDS 06	6	0,54	25	500	D
ecoDS 07	7	0,55	25	500	D
ecoDS 08	8	0,56	25	500	D
ecoDS 09	9	0,57	25	500	D
ecoDS 10	10	0,59	25	500	D
ecoDS 11	11	0,60	25	500	D
ecoDS 12	12	0,62	25	500	D
ecoDS 13	13	0,74	25	500	D
ecoDS 14	14	0,77	25	500	D
ecoDS 15	15	0,79	25	500	D
ecoDS 16	16	0,81	25	500	D
ecoDS 17	17	0,83	25	500	D
ecoDS 18	18	0,86	25	500	D
ecoDS 19	19	0,88	25	500	D
ecoDS 20	20	0,90	25	500	D
DS 22	22	0,98	25	400	V
DS 24	24	1,01	25	400	V
DS 26	26	1,05	25	300	V
DS 28	28	1,09	25	300	V
DS 30	30	1,13	25	300	V
DS 32	32	1,51	25	300	V
DS 35	35	1,58	25	200	V
DS 37	37	1,63	25	200	V
DS 40	40	1,70	25	200	V
DS 42	42	2,12	25	200	V
DS 45	45	2,21	25	200	V
DS 47	47	2,27	25	200	V
DS 50	50	2,36	25	200	V

*) D ... shape of lattice girder
V ... shape of a ladder
Weight and dimensional tolerances in accordance with DBV-leaflet „Unterstützungen nach Eurocode 2“

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