



Features/Application

Metalastik® Offset Shear Springs are normally used in pairs, fitted at an angle to the vertical axis, thereby loading the rubber in shear and compression and providing three linear modes of flexibility.

The springs shown on the following pages are a selection from the existing Metalastik® range but other and new designs can be made available for applications with special requirements.

Preferred rubber hardness (50 Shore) and included angles of inclination are quoted for optimum

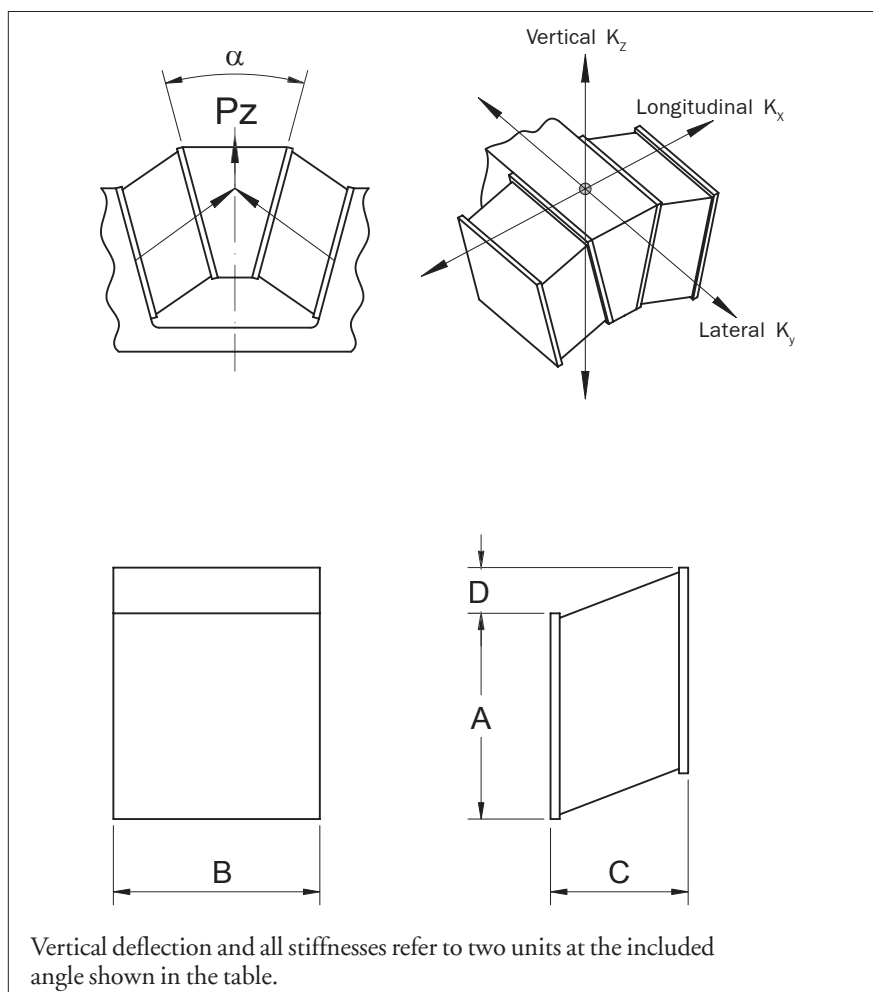
performance but may be varied to suit particular application requirements. Horizontal stiffness values vary significantly with vertical load and deflection conditions as indicated in the graphs.

This type of spring may be used for primary or secondary suspensions on rail vehicles. For secondary suspensions, bolster beam systems can incorporate these springs which can also be combined with Metalastik® Bearer Springs and centre control arrangements to produce maintenance free solutions.

● Metalastik® type Offset Shear Springs

Offset Shear Springs

<60 mm Vertical Deflection



Parts listed are a selection of a wider range, details of which are available on request.

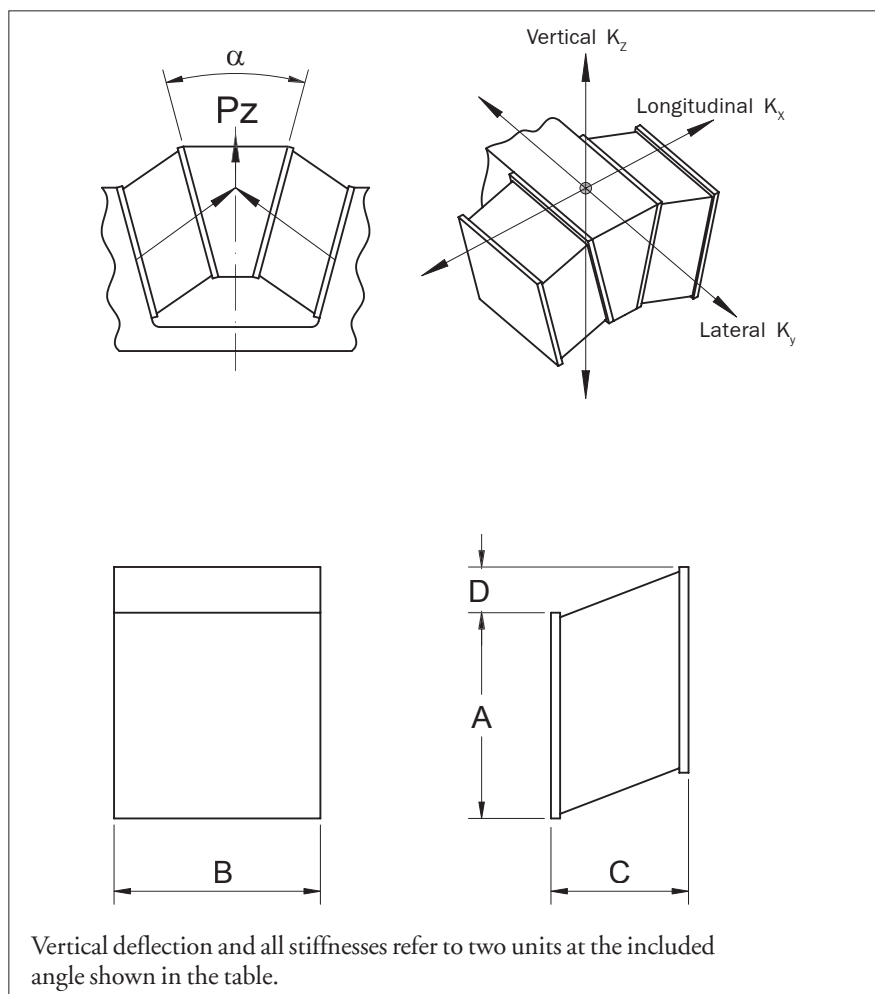
Product No.		17-1280	17-1578	17-1598	17-1735	17-0563	17-1500
Vertical load	kN	58	83	49	37	32	48
Vertical deflection	mm	36	49	56	59	60	60
Vertical stiffness	MN/m	1.6	1.7	0.9	0.62	0.55	0.75
Included angle	α	34	34	26	26	34	34
Dimension A	mm	248	210	152	152	197	165
Dimension B	mm	140	203	300	300	197	250
Dimension C	mm	92	127	134	136	139	135
Dimension D	mm	21	81	96	112	70	60
Unit mass	kg	7.7	12.2	10.5	9.5	8.2	10

Trelleborg Industrial AVS operates a policy of continuous improvement and development. We reserve the right to change design and specification of our products without prior notification or alteration of literature. We will not be held responsible for any danger or damage incurred through improper use or installation.

● Metalastik® type Offset Shear Springs

Offset Shear Springs

61 - 90 mm Vertical Deflection



Parts listed are a selection of a wider range, details of which are available on request.

Product No.		17-0694	17-1042	17-1577	17-1324	17-1649
Vertical load	kN	47	45	68	48	77
Vertical deflection	mm	65	65	65	75	87
Vertical stiffness	MN/m	0.8	0.77	1.1	0.67	0.89
Included angle	α	34	22	22	34	34
Dimension A	mm	216	210	210	221	264
Dimension B	mm	216	172	203	243	290
Dimension C	mm	148	159	159	167	194
Dimension D	mm	79	102	102	88	108
Unit mass	kg	10.2	12.4	15	13	19.3