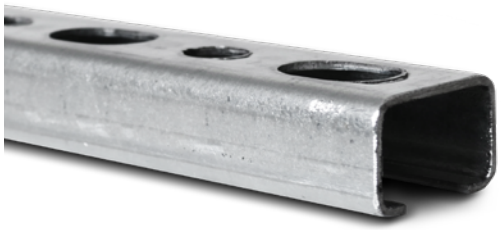
Fixing rail for building installations and ventilation systems

LDB



Description

LDB fixing rails are designed for suspending ventilation ducts, equipment and accessories. They are fastened using PG threaded rods. This solution can also be used to design and build various suspended installation types, fixtures, or structural parts of buildings.

LDB fixing rails are multi-discipline support systems for all main disciplines including electrical, instrumentation, telecom, HVAC and piping.

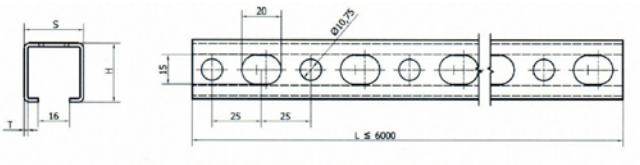
Our systems are produced in fit for purpose materials like, electro galvanized, (HDG) hot dip galvanized, pre galvanized. A wide range of thicknesses, heights and materials are available to make support systems for light, medium and heavy-duty applications.

Available materials - Product code example
LDB- galvanized steel sheet

Product code example
Product code: **LDB - 30 - 30 - 150 - 0250**

type
width
height
thickness
length

Dimensions



Type	S [mm]	H [mm]	T [mm]	L [m]
LDB-30-20-150-0250	30	20	1.50	2.50
LDB-30-20-150-0500	30	20	1.50	5.00
LDB-30-20-175-0250	30	20	1.75	2.50
LDB-30-20-175-0500	30	20	1.75	5.00
LDB-30-30-150-0250	30	30	1.50	2.50
LDB-30-30-150-0500	30	30	1.50	5.00
LDB-30-30-175-0250	30	30	1.75	2.50
LDB-30-30-175-0300	30	30	1.75	3.00
LDB-30-30-175-0500	30	30	1.75	5.00
LDB-30-45-150-0250	30	45	1.50	2.50
LDB-30-45-150-0500	30	45	1.50	5.00
LDB-30-45-175-0250	30	45	1.75	2.50
LDB-30-45-175-0500	30	45	1.75	5.00
LDB-41-21-200-0600	41	21	2.00	6.0
LDB-41-41-200-0600	41	41	2.00	6.0

Standard sections are 5 m long.

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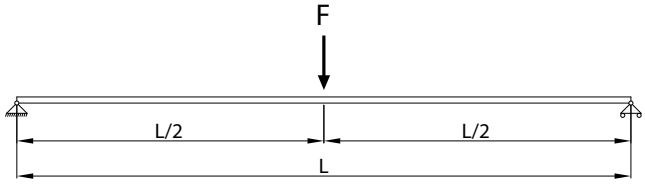
Support spacing L [mm]	*Maximum acceptable load F [N]*							
	LDB-30-20-150	*LDB-30-20-175*	*LDB-30-30-150*	*LDB-30-30-175*	*LDB-30-45-150*	*LDB-30-45-175*	*LDB-41-21-200*	*LDB-41-41-200*
250	1610	1827	3003	3406	5666	6502	3406	11858
300	1342	1522	2503	2838	4721	5418	2838	9881
350	1150	1305	2145	2433	4047	4644	2433	8470
400	1006	1142	1877	2129	3541	4064	2114	7411
450	843	1015	1668	1892	3148	3612	1669	6588
500	683	839	1502	1703	2833	3251	1352	5929
600	474	582	1251	1419	2361	2709	938	4714
700	348	428	1031	1180	2023	2322	690	3463
800	266	328	789	904	1771	2032	528	2652
900	211	259	623	714	1574	1806	417	2095
1000	170	209	505	579	1407	1497	338	1697
1200	118	146	350	402	977	1040	234	1178
1400	87	107	257	295	718	764	172	866
1600	67	82	197	226	549	584	132	663
1800	52	64	155	178	434	462	104	524
2000	43	52	126	144	352	374	84	424
2250	-	41	99	114	278	295	67	335
2500	-	-	81	92	225	239	54	274
2750	-	-	66	76	186	198	45	224
3000	-	-	56	64	156	166	-	188
3250	-	-	-	55	133	142	-	161
3500	-	-	-	-	114	122	-	138
3750	-	-	-	-	99	106	-	120
4000	-	-	-	-	88	93	-	106
4250	-	-	-	-	77	83	-	94
4500	-	-	-	-	69	74	-	84
4750	-	-	-	-	62	66	-	75
5000	-	-	-	-	56	59	-	68
5250	-	-	-	-	-	54	-	61
5500	-	-	-	-	-	49	-	56
5750							-	51
6000							-	47

Load diagram



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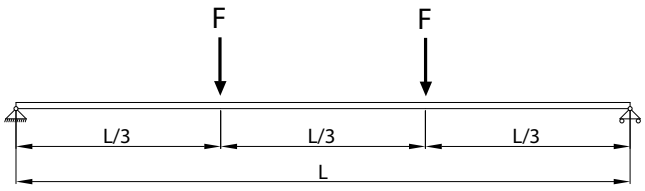
Support spacing L [mm]	*Maximum acceptable load F [N]*							
	LDB-30-20-150	*LDB-30-20-175*	*LDB-30-30-150*	*LDB-30-30-175*	*LDB-30-45-150*	*LDB-30-45-175*	*LDB-41-21-200*	*LDB-41-41-200*
250	1207	1370	2252	2554	4249	4876	2554	8893
300	1006	1142	1877	2129	3541	4064	2129	7411
350	824	979	1609	1824	3035	3483	1630	6352
400	631	775	1408	1596	2656	3048	1248	5558
450	498	612	1251	1419	2361	2709	986	4941
500	404	496	1126	1277	2125	2438	799	4011
600	280	344	829	950	1771	2032	555	2785
700	206	253	609	698	1518	1742	408	2046
800	158	194	466	534	1299	1383	312	1567
900	125	153	369	422	1027	1093	247	1238
1000	101	124	299	342	832	885	200	1003
1200	70	86	207	237	577	615	139	696
1400	52	63	152	175	424	452	102	512
1600	-	48	117	134	325	346	78	392
1800	-	-	92	106	257	273	62	309
2000	-	-	75	85	208	221	50	251
2250	-	-	59	68	164	175	39	198
2500	-	-	48	55	133	142	-	160
2750	-	-	-	-	110	117	-	133
3000	-	-	-	-	92	98	-	111
3250	-	-	-	-	79	84	-	95
3500	-	-	-	-	68	72	-	82
3750	-	-	-	-	58	62	-	70
4000	-	-	-	-	52	55	-	63
4250	-	-	-	-	46	49	-	56
4500	-	-	-	-	-	44	-	50
4750	-	-	-	-	-	-	-	44
5000	-	-	-	-	-	-	-	40

Load diagram



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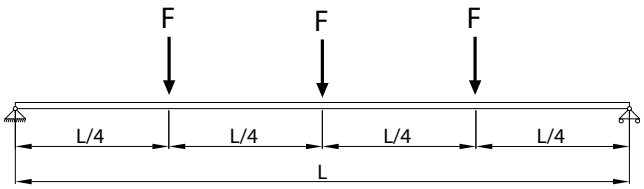
250	805	913	1502	1703	2833	3251	1703	5929
300	671	761	1251	1419	2361	2709	1419	4941
350	526	652	1073	1216	2023	2322	1162	4235
400	402	552	938	1064	1771	2032	889	3706
450	318	436	834	946	1574	1806	703	3294
500	258	353	751	851	1416	1625	569	2858
600	179	245	591	677	1180	1355	395	1985
700	131	180	434	497	1012	1161	290	1458
800	101	138	332	381	885	985	222	1117
900	80	109	263	301	731	778	176	882
1000	64	88	213	244	592	631	142	715
1200	45	61	148	169	411	438	99	496
1400	-	45	109	124	302	322	73	365
1600	-	-	83	95	231	246	56	279
1800	-	-	66	75	183	195	44	221
2000	-	-	53	61	148	158	-	179
2250	-	-	-	48	117	125	-	141
2500	-	-	-	-	95	101	-	114
2750	-	-	-	-	78	83	-	94
3000	-	-	-	-	66	70	-	79
3250	-	-	-	-	56	60	-	68
3500	-	-	-	-	48	51	-	58
3750	-	-	-	-	-	45	-	51
4000	-	-	-	-	-	-	-	45
4250	-	-	-	-	-	-	-	40

Load diagram



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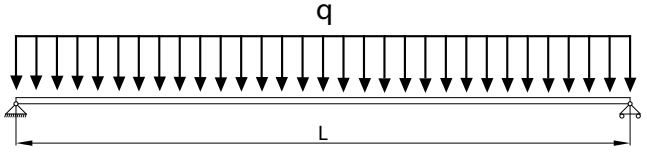
	LDB-30-20-150	*LDB-30-20-175*	*LDB-30-30-150*	*LDB-30-30-175*	*LDB-30-45-150*	*LDB-30-45-175*	*LDB-41-21-200*	*LDB-41-41-200*
250	3220	3653	6006	6811	11331	13003	6811	23715
300	2683	3044	5005	5676	9443	10836	5676	19763
350	2230	2609	4290	4865	8094	9288	4415	16940
400	1708	2097	3754	4257	7082	8127	3380	14822
450	1349	1657	3337	3784	6295	7224	2671	13175
500	1093	1342	3003	3406	5666	6502	2163	10861
600	759	932	2245	2572	4721	5418	1502	7543
700	558	685	1649	1889	4047	4644	1104	5541
800	427	524	1263	1446	3517	3743	845	4243
900	337	414	998	1143	2779	2958	668	3353
1000	273	336	808	926	2251	2396	541	2715
1200	190	233	561	643	1563	1664	376	1886
1400	139	171	412	472	1149	1222	276	1386
1600	107	131	316	362	879	936	211	1061
1800	84	104	249	286	695	739	167	838
2000	68	84	202	231	563	599	135	679
2250	54	66	160	183	445	473	107	536
2500	-	54	129	148	360	383	87	434
2750	-	-	107	122	298	317	72	359
3000	-	-	90	103	250	266	60	302
3250	-	-	77	88	213	227	51	257
3500	-	-	66	76	184	196	44	222
3750	-	-	57	66	160	170	-	193
4000	-	-	51	58	141	150	-	170
4250	-	-	-	-	125	133	-	150
4500	-	-	-	-	111	118	-	134
4750	-	-	-	-	100	106	-	120
5000	-	-	-	-	90	96	-	109
5250	-	-	-	-	82	87	-	99
5500	-	-	-	-	74	79	-	90
5750	-	-	-	-	68	72	-	82
6000	-	-	-	-	63	67	-	75

Load diagram



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