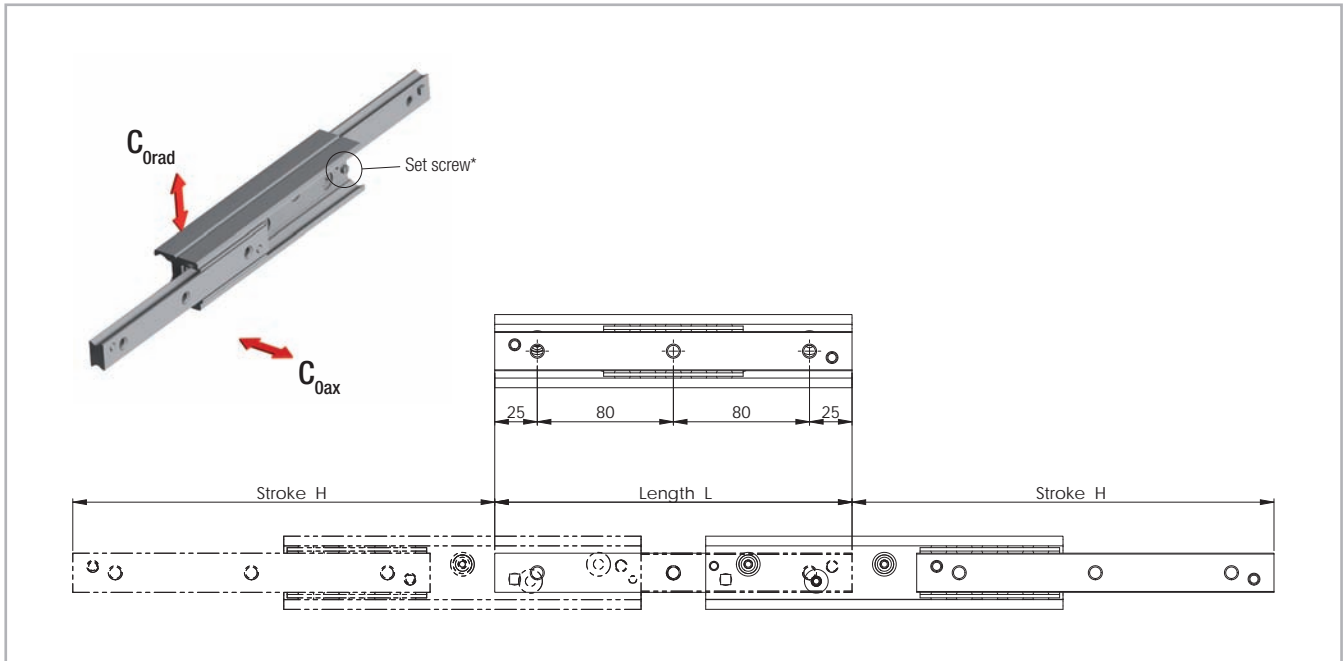


> DE



* Remove the set screw to reach all the fixing holes. See also assembly instructions on page TR-41f.

Fig. 23

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{Orad} [N]	C _{Oax} [N]	
DEF DEV DEM	22	130	152	119	83	2
		210	222	281	196	3
		290	308	390	273	4
		370	392	501	263	5
		450	462	674	230	6
		530	548	571	193	7
		610	632	494	167	8
		690	702	453	153	9
		770	788	401	135	10

* The given load capacities and weights apply for a single extension

Tab. 23

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{Orad} [N]	C _{Oax} [N]	
DEF DEV DEM	28	130	148	235	164	2
		210	232	432	302	3
		290	296	767	537	4
		370	380	968	471	5
		450	464	1169	385	6
		530	548	1107	325	7
		610	633	955	280	8
		690	717	842	247	9
		770	801	753	221	10
		850	866	710	208	11
		930	950	646	189	12
		1010	1034	592	174	13
		1090	1118	547	160	14
		1170	1202	508	149	15

* The given load capacities and weights apply for a single extension

Tab. 24

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{0rad} [N]	C _{0ax} [N]	
DEF DEV DEM	35	210	254	402	281	3
		290	318	800	560	4
		370	406	1025	718	5
		450	494	1250	793	6
		530	558	1685	728	7
		610	646	1908	626	8
		690	734	1689	548	9
		770	798	1591	516	10
		850	886	1425	463	11
		930	974	1291	419	12
		1010	1038	1233	400	13
		1090	1126	1131	367	14
		1170	1214	1045	339	15
		1250	1278	1006	327	16
		1330	1366	937	304	17
		1410	1454	877	285	18
		1490	1518	850	276	19

* The given load capacities and weights apply for a single extension

Tab. 25

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{0rad} [N]	C _{0ax} [N]	
DEF	63	610	666	4090	2863	8
		690	746	4859	3062	9
		770	826	5635	2784	10
		850	906	6415	2553	11
		930	986	7198	2357	12
		1010	1066	6885	2189	13
		1090	1146	6427	2043	14
		1170	1226	6026	1916	15
		1250	1306	5672	1803	16
		1330	1386	5357	1703	17
		1410	1466	5076	1614	18
		1490	1546	4822	1533	19
		1570	1626	4593	1460	20
		1650	1706	4384	1394	21
		1730	1786	4194	1333	22
		1810	1866	4019	1278	23
		1890	1946	3859	1227	24
		1970	2026	3710	1180	25

* The given load capacities and weights apply for a single extension

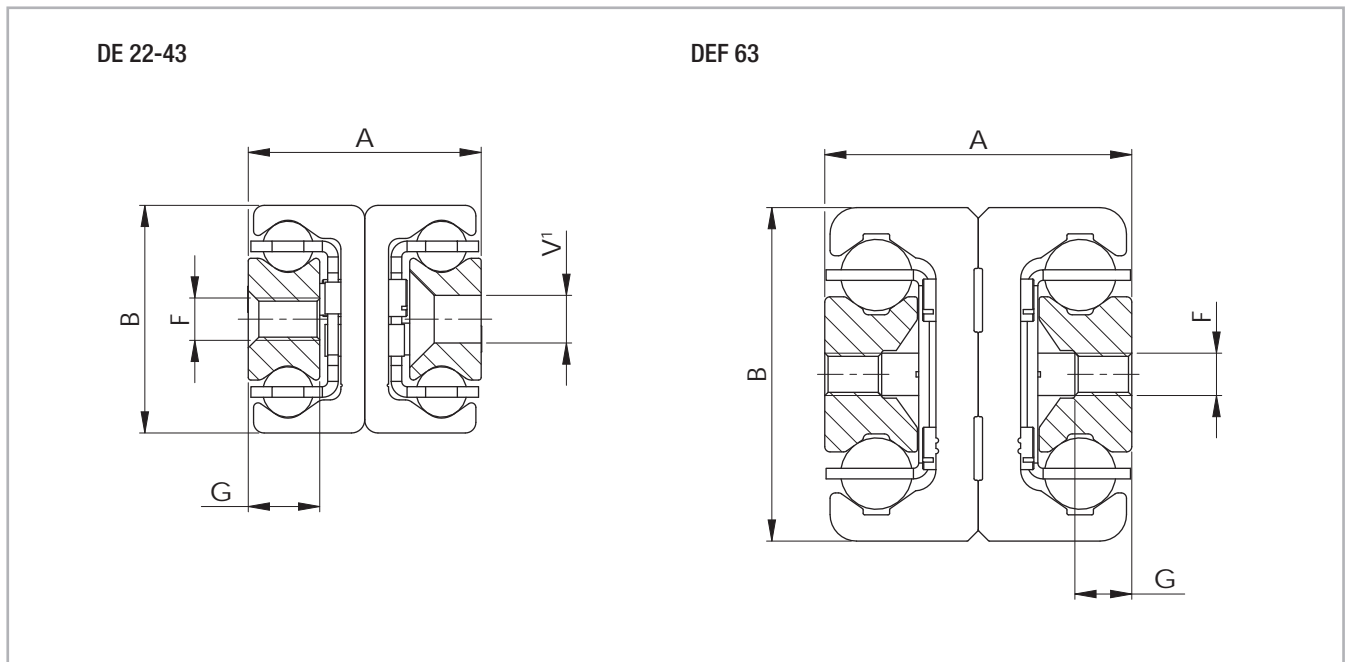
Tab. 27

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{0rad} [N]	C _{0ax} [N]	
DEF DEV DEM	43	210	246	605	424	3
		290	316	1114	780	4
		370	416	1300	910	5
		450	486	1828	1279	6
		530	556	2375	1434	7
		610	626	2934	1300	8
		690	726	3091	1096	9
		770	796	3055	1016	10
		850	866	2847	946	11
		930	966	2506	833	12
		1010	1036	2364	786	13
		1090	1106	2238	744	14
		1170	1206	2022	672	15
		1250	1276	1928	641	16
		1330	1376	1766	587	17
		1410	1446	1694	563	18
		1490	1516	1628	541	19
		1570	1586	1567	521	20
		1650	1686	1458	485	21
		1730	1756	1409	468	22
		1810	1856	1320	439	23
		1890	1926	1280	425	24
		1970	2026	1206	401	25

* The given load capacities and weights apply for a single extension

Tab. 26

> DE



¹ Fixing holes (V) for countersunk head screws according to DIN 7991

Fig. 24

Type	Size	Cross-section					Weight [kg/m]
		A [mm]	B [mm]	G [mm]	F	V	
DEF DEV DEM	22	22	22	6.5	M4	M4	2.64
	28	26	28	7.5	M5	M5	4.04
	35	34	35	10	M6	M6	6.10
	43	44	43	13.5	M8	M8	10.50
	63	58	63	10.5	M8	-	20.60

Tab. 28

There are three options for mounting holes available for the DE series in sizes 22 to 43:

Version DEF with threaded holes,

Version DEV with counter-sunk holes,

Version DEM, both variants (mixed) (see fig. 24).

Size 63 is only available with threaded holes.

> DE...D

DED with double direction stroke (double stroke)

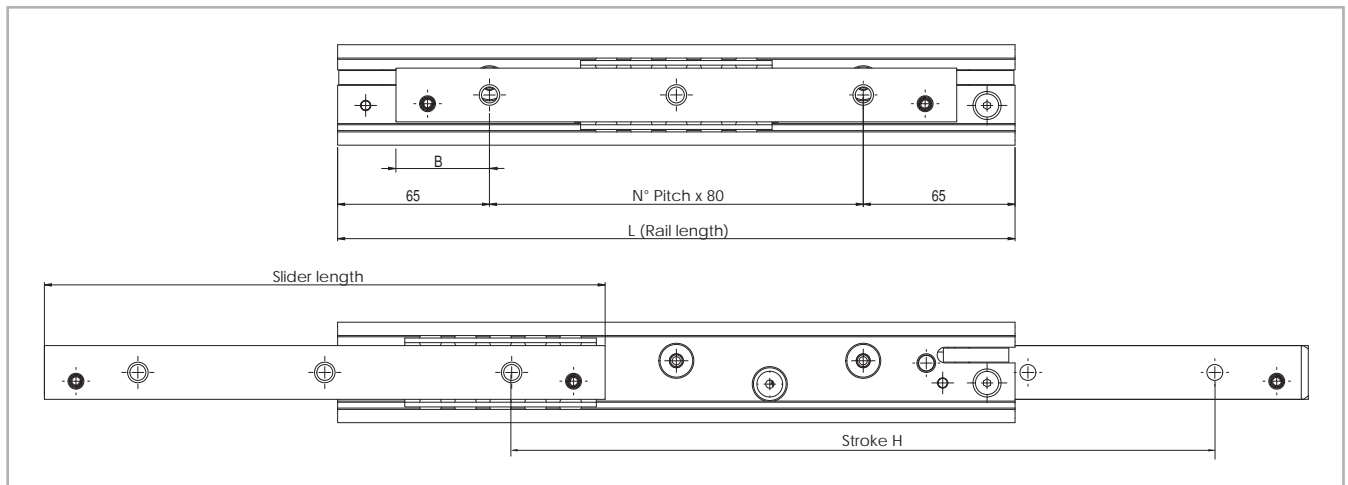


Fig. 25

D version (with a driving disc)

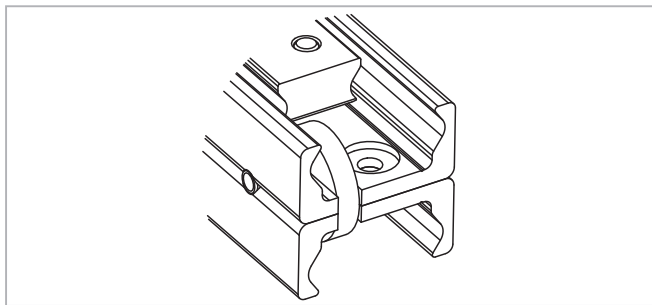


Fig. 26

The driving disc in the intermediate element in the DE...D versions acts to make sure that in bilateral strokes (double strokes) the intermediate element always returns to the correct position and does not remain in an undefined position. This design is available in sizes 28, 35, 43 and 63 with all three versions of the fixing holes. This version is based on the standard DE series version, but differs in the technical characteristics for the construction methods. Please contact our technical service department for more information.

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		Slider [mm]	B [mm]	No. of holes
				C _{Orad} [N]	C _{Oax} [N]			
DEF...D DEV...D DEM...D	28	290	292	418	293	250	45	3
		370	376	612	428	330	45	4
		450	460	809	391	410	45	5
		530	544	1007	329	490	45	6
		610	628	970	285	570	45	7
		690	712	853	250	650	45	8
		770	796	762	224	730	45	9
		850	880	688	202	810	45	10
		930	964	628	184	890	45	11
		1010	1048	577	169	970	45	12
		1090	1132	534	157	1050	45	13
		1170	1216	496	146	1130	45	14

* The given load capacities and weights apply for a single extension

Tab. 29

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		Slider [mm]	B [mm]	No. of holes
				C _{Orad} [N]	C _{Oax} [N]			
DEF...D DEV...D DEM...D	35	290	303	445	312	250	45	3
		370	391	661	463	330	45	4
		450	479	880	616	410	45	5
		530	543	1281	767	490	45	6
		610	631	1506	654	570	45	7
		690	719	1730	570	650	45	8
		770	783	1651	536	730	45	9
		850	871	1473	478	810	45	10
		930	959	1330	432	890	45	11
		1010	1023	1268	412	970	45	12
		1090	1111	1161	377	1050	45	13
		1170	1199	1070	347	1130	45	14
		1250	1263	1030	334	1210	45	15
		1330	1351	958	311	1290	45	16
		1410	1439	895	291	1370	45	17
		1490	1503	867	281	1450	45	18

* The given load capacities and weights apply for a single extension

Tab. 30

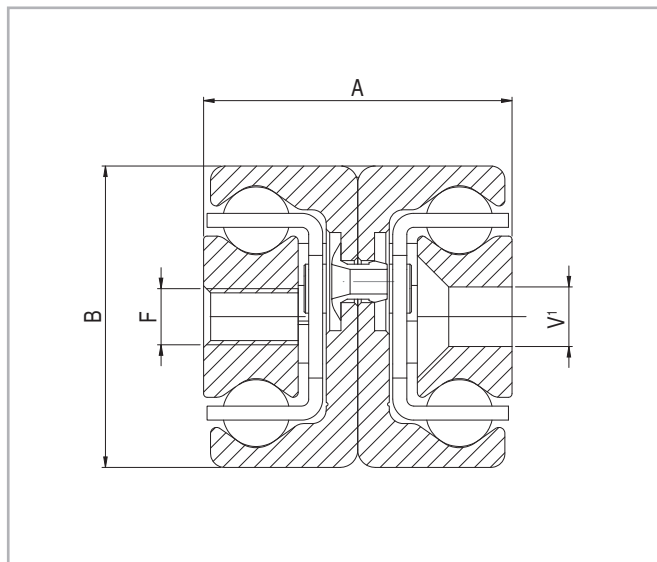
Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		Slider [mm]	B [mm]	No. of holes
				C _{0rad} [N]	C _{0ax} [N]			
DED...D DEV...D DEN...D	43	290	301	501	351	240	40	3
		370	401	700	490	320	40	4
		450	471	1159	811	400	40	5
		530	541	1656	1159	480	40	6
		610	641	1848	1242	560	40	7
		690	711	2362	1140	640	40	8
		770	781	2892	1054	720	40	9
		850	881	2753	915	800	40	10
		930	951	2583	859	880	40	11
		1010	1021	2433	809	960	40	12
		1090	1121	2180	725	1040	40	13
		1170	1191	2072	689	1120	40	14
		1250	1261	1974	656	1200	40	15
		1330	1361	1804	600	1280	40	16
		1410	1431	1729	575	1360	40	17
		1490	1501	1661	552	1440	40	18
		1570	1601	1538	512	1520	40	19
		1650	1671	1484	493	1600	40	20
		1730	1741	1433	476	1680	40	21
		1810	1841	1341	446	1760	40	22
1890	1911	1300	432	1840	40	23		
1970	2011	1224	407	1920	40	24		

* The given load capacities and weights apply for a single extension

Tab. 31

> DED version D

DED with double direction stroke (double stroke)



¹ Fixing holes (V) for countersunk head screws according to DIN 7991

Fig. 27

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		Slider [mm]	B [mm]	No. of holes
				C _{0rad} [N]	C _{0ax} [N]			
DEF...D	63	610	602	3844	2691	558	39	7
		690	682	4618	3233	638	39	8
		770	762	5398	3257	718	39	9
		850	842	6181	2945	798	39	10
		930	922	6967	2687	878	39	11
		1010	1002	7756	2471	958	39	12
		1090	1082	7193	2287	1038	39	13
		1170	1162	6694	2128	1118	39	14
		1250	1242	6260	1990	1198	39	15
		1330	1322	5879	1869	1278	39	16
		1410	1402	5542	1762	1358	39	17
		1490	1482	5241	1666	1438	39	18
		1570	1562	4971	1580	1518	39	19
		1650	1642	4728	1503	1598	39	20
		1730	1722	4507	1433	1678	39	21
		1810	1802	4306	1369	1758	39	22
		1890	1882	4122	1310	1838	39	23
		1970	1962	3953	1257	1918	39	24

* The given load capacities and weights apply for a single extension

Tab. 32

Type	Size	Cross-section				Weight [kg/m]
		A [mm]	B [mm]	F	V ¹	
DE...D	28	26	28	M5	M5	4,04
	35	34	35	M6	M6	6,10
	43	44	43	M8	M8	10,50
	63	58	63	M8	-	20,60

Tab. 33

There are three options for mounting holes available for the

DE...D series in sizes 28 to 43:

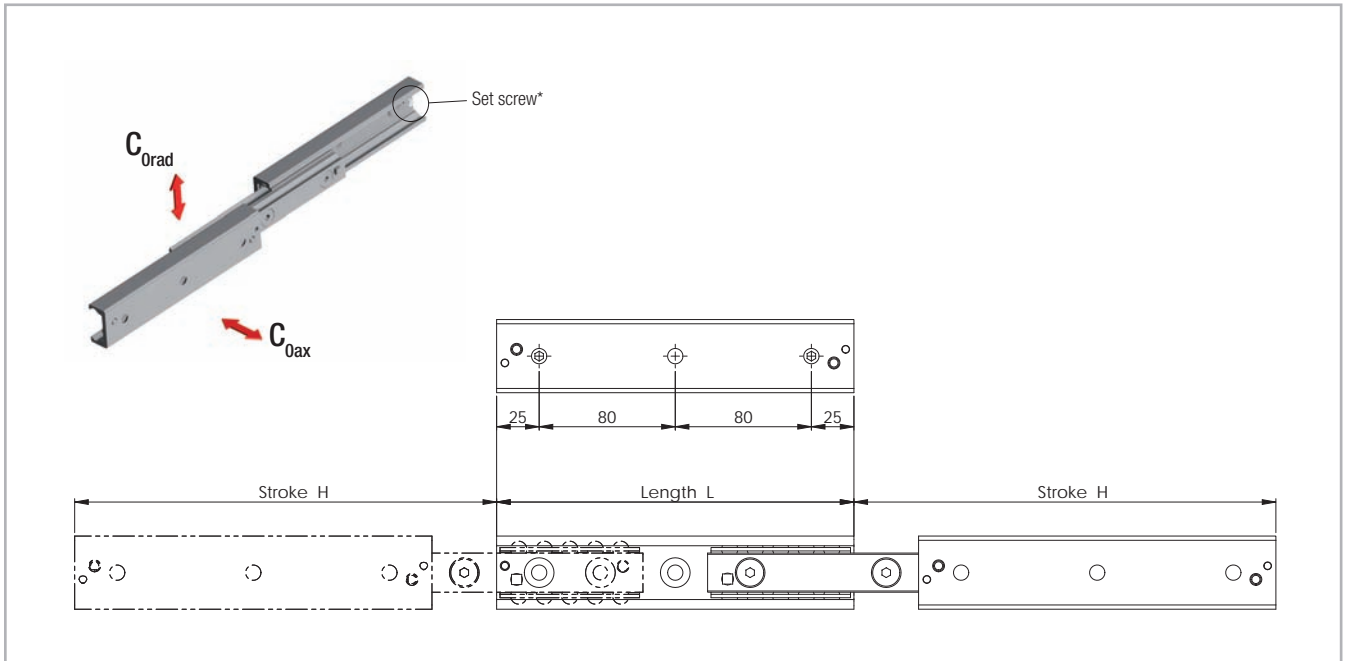
Version DEF with threaded holes,

Version DEV with counter-sunk holes,

Version DEM, both variants (mixed).

Size 63 is only available with threaded holes.

> DBN



* Remove the set screw to reach all the fixing holes. See also assembly instructions on page TR-41f.

Fig. 28

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{Orad} [N]	C _{Oax} [N]	
DBN	22	130	152	119	83	2
		210	222	281	196	3
		290	308	236	236	4
		370	392	186	186	5
		450	462	162	162	6
		530	548	136	136	7
		610	632	117	117	8
		690	702	108	108	9
		770	788	95	95	10

Tab. 34

* The given load capacities and weights apply for a single extension

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{Orad} [N]	C _{Oax} [N]	
DBN	28	130	148	235	164	2
		210	232	432	302	3
		290	296	622	537	4
		370	380	482	482	5
		450	464	393	393	6
		530	548	332	332	7
		610	633	286	286	8
		690	717	252	252	9
		770	801	226	226	10
		850	866	213	213	11
		930	950	194	194	12
		1010	1034	178	178	13
		1090	1118	164	164	14
		1170	1202	152	152	15

Tab. 35

* The given load capacities and weights apply for a single extension

3 Dimensions and load capacity

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{Grad} [N]	C _{Oax} [N]	
DBN	35	210	254	402	281	3
		290	318	667	560	4
		370	406	522	522	5
		450	494	429	429	6
		530	558	394	394	7
		610	646	338	338	8
		690	734	297	297	9
		770	798	279	279	10
		850	886	250	250	11
		930	974	227	227	12
		1010	1038	217	217	13
		1090	1126	199	199	14
		1170	1214	183	183	15
		1250	1278	177	177	16
		1330	1366	165	165	17
		1410	1454	154	154	18
		1490	1518	149	149	19

* The given load capacities and weights apply for a single extension

Tab. 36

Type	Size	Length L [mm]	Stroke H [mm]	Load capacities*		No. of holes
				C _{Grad} [N]	C _{Oax} [N]	
DBN	43	210	246	605	424	3
		290	316	1114	780	4
		370	416	1300	910	5
		450	486	1331	1279	6
		530	556	1193	1193	7
		610	626	1082	1082	8
		690	726	912	912	9
		770	796	845	845	10
		850	866	788	788	11
		930	966	693	693	12
		1010	1036	654	654	13
		1090	1106	619	619	14
		1170	1206	559	559	15
		1250	1276	533	533	16
		1330	1376	488	488	17
		1410	1446	469	469	18
		1490	1516	450	450	19
		1570	1586	434	434	20
		1650	1686	403	403	21
		1730	1756	390	390	22
		1810	1856	365	365	23
		1890	1926	354	354	24
		1970	2026	334	334	25

* The given load capacities and weights apply for a single extension

Tab. 37