

distributed in North America by :



1-800-362-1484  
www.BridgeportWorldwide.com

# LOAD CAPACITIES

## Overview of load values for hinges

The following table provides an overview of the maximum load value for the individual hinge type, taking the interaction of width and height of the door as well as the hinge spacing into account.

The reference load carrying capacity is based on a height /width ratio of 2:1. For example, assuming a reference value with door leaf dimensions of 2000 x 1000 mm (78.8" x 39.4") (H x W), a positioning of 10" from the top and 10" from the bottom to the center of each hinge is required.

For required number of hinges and hinge spacing refer to door manufacturer recommendation.

Values represent hinges positioned 10" from the top and 10" from the bottom to center of each hinge.

**Green:** load value = reference value, **Orange:** load value < reference value.

REFERENCE VALUE **40 KG** /88 lbs.

### TE 240 3D TE 240 3D Energy Kit

→ Door panel height in mm / inch	>2743 / 108	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88
	2591 / 102	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88
	2438 / 96	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	38 / 83
	2388 / 94	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	37 / 81
	2337 / 92	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	38 / 83	36 / 79
	2286 / 90	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	38 / 83	37 / 81	35 / 77
	2235 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	39 / 85	37 / 81	36 / 79	34 / 74
	2184 / 86	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	39 / 85	38 / 83	36 / 79	35 / 77	35 / 77	35 / 77	33 / 72
	2134 / 84	40 / 88	40 / 88	40 / 88	40 / 88	40 / 88	38 / 83	37 / 81	35 / 77	34 / 74	34 / 74	34 / 74	32 / 70
	2083 / 82	40 / 88	40 / 88	40 / 88	40 / 88	39 / 85	37 / 81	35 / 77	34 / 74	33 / 72	33 / 72	33 / 72	31 / 68
	2032 / 80	40 / 88	40 / 88	39 / 85	38 / 83	36 / 79	34 / 74	33 / 72	33 / 72	31 / 68	31 / 68	31 / 68	30 / 66
	1981 / 78	40 / 88	40 / 88	38 / 83	36 / 79	35 / 77	33 / 72	32 / 70	32 / 70	30 / 66	30 / 66	30 / 66	29 / 62
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	1321 / 52	1321 / 52	1321 / 52
	→ Door width in mm / inch												

REFERENCE VALUE **80 KG** /176 lbs.

### TE 340 3D TE 340 3D Energy Kit

→ Door panel height in mm / inch	>2743 / 108	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176
	2591 / 102	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176
	2438 / 96	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	78 / 171
	2388 / 94	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	79 / 174	76 / 167
	2337 / 92	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	76 / 167	74 / 163
	2286 / 90	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	77 / 169	74 / 163	71 / 156
	2235 / 88	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	78 / 171	75 / 165	72 / 158	69 / 152
	2184 / 86	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	76 / 167	73 / 160	70 / 154	67 / 147
	2134 / 84	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	77 / 169	74 / 163	71 / 156	68 / 149
	2083 / 82	80 / 176	80 / 176	80 / 176	80 / 176	80 / 176	77 / 169	75 / 165	72 / 158	69 / 152	66 / 145	63 / 137	60 / 130
	2032 / 80	80 / 176	80 / 176	80 / 176	80 / 176	75 / 165	72 / 158	69 / 152	66 / 145	64 / 141	64 / 141	61 / 134	58 / 127
	1981 / 78	80 / 176	80 / 176	77 / 169	73 / 160	70 / 154	67 / 147	64 / 141	62 / 136	62 / 136	59 / 130	59 / 130	56 / 123
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	1321 / 52	1321 / 52	1321 / 52
	→ Door width in mm / inch												

The specifications above are guidelines. Especially in the case of borderline load requirements, please contact us.

Values represent hinges positioned 10" from the top and 10" from the bottom to center of each hinge (see page 46).

## LOAD CAPACITIES



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## Overview of load values for hinges

→ Door panel height in mm / inch	>2743 / 108	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220
	2591 / 102	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220
	2438 / 96	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	97 / 213
	2388 / 94	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	99 / 218	95 / 209
	2337 / 92	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	99 / 218	96 / 211	92 / 202
	2286 / 90	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	97 / 213	93 / 205	90 / 198
	2235 / 88	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	99 / 218	94 / 207	91 / 200	87 / 191
	2184 / 86	100 / 220	100 / 220	100 / 220	100 / 220	100 / 220	96 / 211	92 / 202	88 / 194	84 / 185
	2134 / 84	100 / 220	100 / 220	100 / 220	100 / 220	97 / 213	93 / 205	89 / 196	85 / 187	82 / 180
	2083 / 82	100 / 220	100 / 220	100 / 220	98 / 216	94 / 207	90 / 198	86 / 189	83 / 182	79 / 174
	2032 / 80	100 / 220	100 / 220	100 / 220	94 / 207	91 / 200	87 / 191	83 / 182	80 / 176	77 / 169
1981 / 78	100 / 220	100 / 220	96 / 211	91 / 200	88 / 194	84 / 185	82 / 180	77 / 169	74 / 163	
	≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	

→ Door width in mm / inch

REFERENCE VALUE 100 KG / 220 lbs.

**TE 541 3D FVZ**  
**TE 540 3D A8**  
**TE 540 3D A8 Energy Kit**

→ Door panel height in mm / inch	>2743 / 108	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264
	2591 / 102	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264
	2438 / 96	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	117 / 257
	2388 / 94	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	118 / 260	114 / 251
	2337 / 92	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	115 / 253	111 / 244
	2286 / 90	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	117 / 257	112 / 246	108 / 238
	2235 / 88	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	118 / 260	113 / 249	109 / 240	104 / 229
	2184 / 86	120 / 264	120 / 264	120 / 264	120 / 264	120 / 264	115 / 253	110 / 242	105 / 231	101 / 222
	2134 / 84	120 / 264	120 / 264	120 / 264	120 / 264	116 / 255	111 / 244	107 / 235	102 / 224	98 / 216
	2083 / 82	120 / 264	120 / 264	120 / 264	118 / 260	113 / 249	108 / 238	103 / 227	99 / 218	95 / 209
	2032 / 80	120 / 264	120 / 264	120 / 264	114 / 251	109 / 240	104 / 229	100 / 220	96 / 211	92 / 202
1981 / 78	120 / 264	120 / 264	116 / 255	110 / 242	105 / 231	101 / 222	97 / 213	93 / 205	89 / 196	
	≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	

→ Door width in mm / inch

REFERENCE VALUE 120 KG / 264 lbs.

**TE 526 3D**  
**TE 527 3D**  
**TE 540 3D**  
**TE 526 3D Energy Kit**  
**TE 527 3D Energy Kit**  
**TE 540 3D Energy Kit**

→ Door panel height in mm / inch	>2743 / 108	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352
	2591 / 102	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352
	2438 / 96	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	156 / 343
	2388 / 94	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	158 / 348	152 / 335
	2337 / 92	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	154 / 339	148 / 326
	2286 / 90	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	155 / 341	149 / 328	144 / 317
	2235 / 88	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	158 / 348	151 / 332	145 / 319
	2184 / 86	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	160 / 352	153 / 337	147 / 324	141 / 310
	2134 / 84	160 / 352	160 / 352	160 / 352	160 / 352	155 / 341	149 / 328	142 / 313	137 / 302	131 / 288
	2083 / 82	160 / 352	160 / 352	160 / 352	156 / 343	150 / 330	144 / 317	138 / 304	132 / 291	127 / 278
	2032 / 80	160 / 352	160 / 352	160 / 352	153 / 337	146 / 321	139 / 306	134 / 295	128 / 282	123 / 271
1981 / 78	160 / 352	160 / 352	158 / 348	148 / 326	141 / 310	135 / 297	129 / 284	124 / 273	119 / 262	
	≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52	

→ Door width in mm / inch

REFERENCE VALUE 160 KG / 352 lbs.

**TE 640 3D A8**  
**TE 640 3D A8 Energy Kit**

The specifications above are guidelines. Especially in the case of borderline load requirements, please contact us.

Values represent hinges positioned 10" from the top and 10" from the bottom to center of each hinge (see page 46).

# LOAD CAPACITIES

## Overview of load values for hinges

REFERENCE VALUE 200 KG / 440 lbs.

### TE 640 3D TE 640 3D Energy Kit

→ Door panel height in mm / inch	>2743 / 108	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440
	2591 / 102	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440
	2438 / 96	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	195 / 429
	2388 / 94	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	198 / 436	190 / 418
	2337 / 92	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	192 / 423	185 / 407
	2286 / 90	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	195 / 429	187 / 412	180 / 396
	2235 / 88	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	198 / 436	189 / 416	182 / 401	175 / 385
	2184 / 86	200 / 440	200 / 440	200 / 440	200 / 440	200 / 440	192 / 423	184 / 405	176 / 388	169 / 372
	2134 / 84	200 / 440	200 / 440	200 / 440	200 / 440	194 / 427	186 / 410	178 / 392	171 / 376	164 / 361
	2083 / 82	200 / 440	200 / 440	200 / 440	197 / 434	188 / 414	180 / 396	173 / 381	166 / 365	159 / 350
	2032 / 80	200 / 440	200 / 440	200 / 440	191 / 421	182 / 401	174 / 383	167 / 368	160 / 352	154 / 339
	1981 / 78	200 / 440	200 / 440	194 / 427	185 / 407	176 / 388	169 / 372	162 / 357	155 / 341	149 / 328
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52

→ Door width in mm / inch

REFERENCE VALUE 250 KG / 551 lbs.

### TE 626 3D A8 TE 626 3D A8 Energy Kit

→ Door panel height in mm / inch	>2743 / 108	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551
	2591 / 102	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551
	2438 / 96	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	244 / 537
	2388 / 94	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	247 / 544	238 / 524
	2337 / 92	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	240 / 529	231 / 509
	2286 / 90	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	244 / 537	234 / 515	225 / 496
	2235 / 88	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	247 / 544	237 / 522	227 / 500	218 / 481
	2184 / 86	250 / 551	250 / 551	250 / 551	250 / 551	250 / 551	240 / 529	230 / 507	220 / 485	212 / 467
	2134 / 84	250 / 551	250 / 551	250 / 551	250 / 551	243 / 535	233 / 513	223 / 491	214 / 471	206 / 454
	2083 / 82	250 / 551	250 / 551	250 / 551	247 / 544	235 / 518	225 / 496	216 / 476	207 / 456	199 / 438
	2032 / 80	250 / 551	250 / 551	250 / 551	239 / 526	228 / 502	218 / 480	209 / 460	200 / 440	193 / 425
	1981 / 78	250 / 551	250 / 551	242 / 533	231 / 509	220 / 485	211 / 465	202 / 445	194 / 427	186 / 410
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52

→ Door width in mm / inch

REFERENCE VALUE 300 KG / 661 lbs.

### TE 645 3D TE 645 3D Energy Kit

→ Door panel height in mm / inch	>2743 / 108	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661
	2591 / 102	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661
	2438 / 96	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	293 / 645
	2388 / 94	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	297 / 654	285 / 628
	2337 / 92	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	289 / 637	278 / 612
	2286 / 90	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	293 / 645	281 / 619	270 / 595
	2235 / 88	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	296 / 652	284 / 626	274 / 604
	2184 / 86	300 / 661	300 / 661	300 / 661	300 / 661	300 / 661	288 / 634	276 / 608	265 / 584	254 / 559
	2134 / 84	300 / 661	300 / 661	300 / 661	300 / 661	292 / 643	279 / 615	268 / 590	257 / 566	247 / 544
	2083 / 82	300 / 661	300 / 661	300 / 661	296 / 652	283 / 623	271 / 597	259 / 570	249 / 548	239 / 526
	2032 / 80	300 / 661	300 / 661	300 / 661	287 / 632	274 / 604	262 / 577	251 / 553	241 / 531	231 / 509
	1981 / 78	300 / 661	300 / 661	291 / 641	279 / 615	264 / 582	253 / 557	242 / 533	233 / 513	224 / 493
		≤ 914 / 36	965 / 38	1016 / 40	1067 / 42	1118 / 44	1158 / 46	1219 / 48	1270 / 50	1321 / 52

→ Door width in mm / inch

The specifications above are guidelines. Especially in the case of borderline load requirements, please contact us.

Values represent hinges positioned 10" from the top and 10" from the bottom to center of each hinge (see page 46).

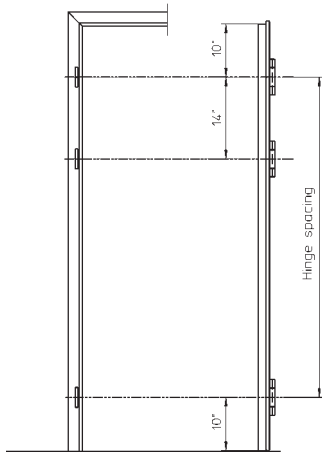
# HINGE POSITIONS

## TECTUS Series

To increase the load capacity of the hinges, a third hinge needs to be positioned 14" below the upper hinge (center to center). The use of a third hinge in order to increase the load capacity has to be determined on a case by case basis. Our hinge data refers to a height/width ratio of the door of 2:1 or more. Please contact us for further information and also see the door manufacturers instructions.

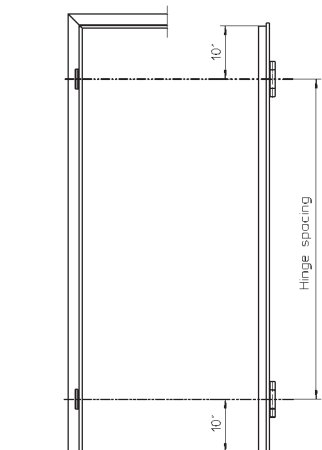
Proper preparation and alignment as well as tension-free adjustment are crucial for a hassle-free operation!

### Application with increased load capacity

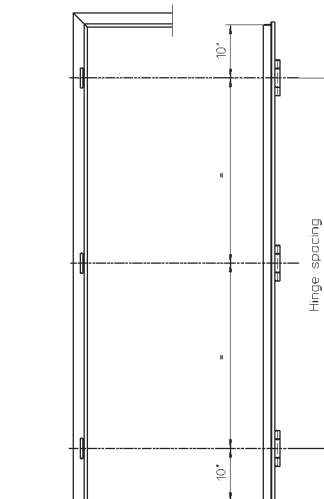


### Examples for applications with different door heights

< 8 ft



≥ 8 ft



The hinge spacing does not increase the load capacity!

Note: We recommend for all exterior doors the use of three hinges.