

# Spring Matrix



		- Lifetime expectation less than 15.000 cycles		Group A (13 kg/m2):		Thyssenkrupp Hoesch, Technopan, Niemetz, Costa, Kingspan, Ryterna, Corsaro & Lisco, Roper		Group B (12,3kg/m2):		Epco, Metecho, Tecsedo, Italpanelli		
		- Springs do not fit in door width										
		- Door weight is above certificate										
				Height in mm								
		Turns:		2000	2125	2250	2375	2500	2625	2750	2875	3000
				6,9	7,2	7,6	8,0	8,3	8,7	9,1	9,5	9,8
Width in mm	2000	A	Door weight	52kg	55kg	59kg	62kg	65kg	68kg	DSC	DSC	DSC
			Art. Nr.	3295005512	3295005512	3295005512	3295005512	3295005512	3295005512	See Notes	See Notes	See Notes
	B	Door weight	49kg	52kg	55kg	58kg	62kg	65kg	68kg	71kg	DSC	DSC
		Art. Nr.	3295005752	3295005752	3295005752	3295005752	3295005752	3295005752	3295005752	3295005752	3295005752	See Notes
	2250	A	Door weight	59kg	62kg	66kg	69kg	73kg	77kg	80kg	84kg	88kg
			Art. Nr.	3295005072	3295005072	3295005072	3295005072	3295507532	3295507532	3295507532	3295507532	3295507532
	B	Door weight	55kg	59kg	62kg	66kg	69kg	73kg	76kg	80kg	83kg	83kg
		Art. Nr.	3295005072	3295005072	3295005072	3295005072	3295005072	3295507912	3295507912	3295507912	3295507912	3295507912
	2375	A	Door weight	62kg	66kg	69kg	73kg	77kg	81kg	85kg	89kg	93kg
			Art. Nr.	3295004632	3295004632	3295004632	3295507202	3295507202	3295507202	3295507202	3295507202	3295507202
	B	Door weight	58kg	62kg	66kg	69kg	73kg	77kg	80kg	84kg	88kg	88kg
		Art. Nr.	3295005072	3295005072	3295005072	3295005072	3295507532	3295507532	3295507532	3295507532	3295507532	3295507532
	2500	A	Door weight	65kg	69kg	73kg	77kg	81kg	85kg	89kg	93kg	98kg
			Art. Nr.	3295004632	3295004632	3295506772	3295506772	3295506772	3295506772	3296010212	3296010212	3296010212
	B	Door weight	62kg	65kg	69kg	73kg	77kg	81kg	85kg	88kg	92kg	92kg
		Art. Nr.	3295004632	3295004632	3295004632	3295507202	3295507202	3295507202	3295507202	3295507202	3295507202	3295507202
	2750	A	Door weight	72kg	76kg	80kg	85kg	89kg	94kg	98kg	103kg	107kg
			Art. Nr.	3295506302	3295506302	3295506302	3295506302	3296009242	3296009242	3296009242	3296009242	3296009242
	B	Door weight	68kg	72kg	76kg	80kg	85kg	89kg	93kg	97kg	101kg	101kg
		Art. Nr.	3295506772	3295506772	3295506772	3295506772	3295506772	3295506772	3296009822	3296009822	3296009822	3296009822
	3000	A	Door weight	78kg	83kg	88kg	93kg	98kg	102kg	107kg	112kg	117kg
			Art. Nr.	3295505882	3295505882	3295505882	3296008622	3296008622	3296008622	3296008622	3296008622	3296008622
	B	Door weight	74kg	78kg	83kg	88kg	92kg	97kg	101kg	106kg	111kg	111kg
		Art. Nr.	3295506302	3295506302	3295506302	3295506302	3296009242	3296009242	3296009242	3296009242	3296009242	3296009242
3250	A	Door weight	85kg	90kg	95kg	100kg	106kg	111kg	116kg	121kg	127kg	
		Art. Nr.	3296008122	3296008122	3296008122	3296008122	3296008122	3296008122	3296511822	3296511822	3296511822	3296511822
B	Door weight	80kg	85kg	90kg	95kg	100kg	105kg	110kg	115kg	120kg	120kg	
	Art. Nr.	3295505882	3295505882	3295505882	3296008622	3296008622	3296008622	3296008622	3296511822	3296511822	3296511822	
3500	A	Door weight	91kg	97kg	102kg	108kg	114kg	119kg	125kg	131kg	137kg	
		Art. Nr.	3296007602	3296007602	3296007602	3296007602	3296007602	3296510782	3296510782	3296510782	3296510782	3296510782
B	Door weight	86kg	91kg	97kg	102kg	108kg	113kg	118kg	124kg	129kg	129kg	
	Art. Nr.	3296008122	3296008122	3296008122	3296008122	3296008122	3296511822	3296511822	3296511822	3296511822	3296511822	
3750	A	Door weight	98kg	104kg	110kg	116kg	122kg	128kg	134kg	140kg	146kg	
		Art. Nr.	3296007172	3296007172	3296007172	3296007172	3296510192	3296510192	3296510192	3296510192	3296510192	3296510192
B	Door weight	92kg	98kg	104kg	110kg	115kg	121kg	127kg	133kg	138kg	138kg	
	Art. Nr.	3296007602	3296007602	3296007602	3296007602	3296007602	3296510782	3296510782	3296510782	3296510782	3296510782	
4000	A	Door weight	104kg	111kg	117kg	124kg	130kg	137kg	143kg	150kg	156kg	
		Art. Nr.	3296006812	3296006812	3296006812	3296509712	3296509712	3296509712	3397010662	3397010662	3397010662	3397010662
B	Door weight	98kg	105kg	111kg	117kg	123kg	129kg	135kg	141kg	148kg	148kg	
	Art. Nr.	3296007172	3296007172	3296007172	3296510192	3296510192	3296510192	3296510192	3397011212	3397011212	3397011212	
4250	A	Door weight	111kg	117kg	124kg	131kg	138kg	145kg	152kg	159kg	165kg	
		Art. Nr.	3296509232	3296509232	3296509232	3296509232	3296509232	3397010072	3397010072	3397010072	3397010072	3397010072
B	Door weight	105kg	111kg	118kg	124kg	131kg	137kg	144kg	150kg	157kg	157kg	
	Art. Nr.	3296509712	3296509712	3296509712	3296509712	3296509712	3296509712	3397010662	3397010662	3397010662	3397010662	
4500	A	Door weight	117kg	124kg	132kg	139kg	146kg	154kg	161kg	168kg	DSC	
		Art. Nr.	3296508812	3296508812	3296508812	3296508812	3397009752	3397009752	3397009752	3397009752	3397009752	See Notes
B	Door weight	111kg	118kg	125kg	131kg	138kg	145kg	152kg	159kg	166kg	166kg	
	Art. Nr.	3296509232	3296509232	3296509232	3296509232	3296509232	3397010072	3397010072	3397010072	3397010072	3397009752	
4750	A	Door weight	124kg	131kg	139kg	147kg	154kg	162kg	170kg	DSC	DSC	
		Art. Nr.	3296508422	3296508422	3296508422	3397009162	3397009162	3397009162	3397009162	3397009162	See Notes	See Notes
B	Door weight	117kg	124kg	131kg	139kg	146kg	153kg	161kg	168kg	DSC	DSC	
	Art. Nr.	3296508812	3296508812	3296508812	3296508812	3397009752	3397009752	3397009752	3397009752	3397009752	See Notes	
5000	A	Door weight	130kg	138kg	146kg	154kg	163kg	DSC	DSC	DSC	DSC	
		Art. Nr.	3397008862	3397008862	3397008862	3397008862	3397008862	See Notes	See Notes	See Notes	See Notes	See Notes
B	Door weight	123kg	131kg	138kg	146kg	154kg	161kg	169kg	DSC	DSC	DSC	
	Art. Nr.	3296508422	3296508422	3296508422	3397009162	3397009162	3397009162	3397009162	3397009162	See Notes	See Notes	

**Notes:**

- ! Based on 15.000 cycles minimum
- ! Max. doorweight 165kg (system limit)
- ! Calculated including DOCO hardware
- ! DSC = Calculate separate with DOCO Spring Calculator
- ! Matrix designed for pairs of equal springs (Type = Set of springs = a pair)
- ! Only for E-operator doors, for manual driven doors: Recalculate with DSC
- Door Height <=2375 mm and Door Width <= 3000 mm : Drum 11000-3 / 11000 / 11001 / 11014
- Door Height >2375 mm and Door Width > 3000 mm : Drum 11014

Calculations are valid for basic thickness panels. Client should check panel weight before using our matrix !!!  
 For flat panels (thicker and heavier panels) use Docco Spring Calc.  
 Calculations are made according official declared weights of manufactures and we can not guarantee the real weight of the panel.  
 Many times weights are different because of several factors

Spring Matrix			
Doco-Number	D	d	L
3295004632	50	5	463
3295005072	50	5	507
3295005512	50	5	551
3295005752	50	5	575
3295505882	50	5.5	588
3295506302	50	5.5	630
3295506772	50	5.5	677
3295507202	50	5.5	720
3295507532	50	5.5	753
3295507912	50	5.5	791
3296006812	50	6	681
3296007172	50	6	717
3296007602	50	6	760
3296008122	50	6	812
3296008622	50	6	862
3296009242	50	6	924
3296009822	50	6	982
3296010212	50	6	1021
3296508422	50	6.5	842
3296508812	50	6.5	881
3296509232	50	6.5	923
3296509712	50	6.5	971
3296510192	50	6.5	1019
3296510782	50	6.5	1078
3296511822	50	6.5	1182
3397008862	67	7	886
3397009162	67	7	916
3397009752	67	7	975
3397010072	67	7	1007
3397010662	67	7	1066
3397011212	67	7	1121

