

# Round Coil Springs

WH, WB: O.D. Datum Type



Ordering Example

Part Number  
WH13-60

WH:Fmax. (allowable deflection)=Lx30%

d	Solid Length	F max.	Load N(kgf) max.	Part Number	Unit Price	d	Solid Length	F max.	Load N(kgf) max.	Part Number	Unit Price	d	Solid Length	F max.	Load N(kgf) max.	Part Number	Unit Price																																																																																																																																																																																																																																																																																																																																																																																				
TypeD-L						TypeD-L						TypeD-L																																																																																																																																																																																																																																																																																																																																																																																									
0.45	2.7	1.5	4.9(0.5)	WH4- 5*	10 - 19 pcs.	1.2	6.9	3	17.7(1.8)	WH12-10		2.1	12.6	6	88.3(9.0)	WH18- 20																																																																																																																																																																																																																																																																																																																																																																																					
0.45	2.7	3	8.8(0.9)		10*	15	0.55	5.8	4.5		13.7(1.4)	15	20	0.6	8.4		6	17.7(1.8)	20	25	0.65	12.4	7.5	22.6(2.3)	25	30	0.65	12.4	9	26.5(2.7)	30	35	0.6	3.3	1.5	8.8(0.9)	WH5- 5*	10 - 19 pcs.	1.5	15.4	12	70.6(7.2)	WH13-10		2.2	15.4	7.5	109.8(11.2)	WH20- 25		0.7	5.5	3	17.7(1.8)	10	15	0.75	7.5	4.5	26.5(2.7)	15	20	0.75	7.5	6	35.3(3.6)	20	25	0.85	13.6	7.5	44.1(4.5)	25	30	0.85	13.6	9	51.6(5.3)	(30)	35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)	WH13-10		2.2	12.7	6	88.3(9.0)	WH20- 25		0.75	5.2	3	17.7(1.8)	10	15	0.8	6.4	4.5	26.5(2.7)	15	20	0.9	9.9	6	35.3(3.6)	20	25	0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3	12.7	6	88.3(9.0)	WH22- 20		1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80															
0.55	5.8	4.5	13.7(1.4)		15	20	0.6	8.4	6		17.7(1.8)	20	25	0.65	12.4		7.5	22.6(2.3)	25	30	0.65	12.4	9	26.5(2.7)	30	35	0.6	3.3	1.5	8.8(0.9)	WH5- 5*	10 - 19 pcs.	1.5	15.4	12	70.6(7.2)		WH13-10		2.2	15.4	7.5		109.8(11.2)	WH20- 25		0.7	5.5		3	17.7(1.8)	10	15	0.75	7.5	4.5	26.5(2.7)	15	20	0.75	7.5	6	35.3(3.6)	20	25	0.85	13.6	7.5	44.1(4.5)	25	30	0.85	13.6	9	51.6(5.3)	(30)	35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3		6.2	3	29.4(3.0)	WH13-10			2.2	12.7	6	88.3(9.0)	WH20- 25			0.75	5.2	3	17.7(1.8)	10	15	0.8	6.4	4.5	26.5(2.7)	15	20	0.9	9.9	6	35.3(3.6)	20	25	0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)		WH8- 10	10 - 19 pcs.	1.6	10.4	4.5		44.1(4.5)	WH14-15		2.3	12.7		6	88.3(9.0)	WH22- 20		1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0		5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.		1.7	10.2	4.5	44.1(4.5)	WH16-15			2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80									
0.6	8.4	6	17.7(1.8)		20	25	0.65	12.4	7.5		22.6(2.3)	25	30	0.65	12.4		9	26.5(2.7)	30	35	0.6	3.3	1.5	8.8(0.9)	WH5- 5*	10 - 19 pcs.	1.5	15.4	12	70.6(7.2)		WH13-10		2.2	15.4	7.5			109.8(11.2)	WH20- 25		0.7		5.5		3	17.7(1.8)	10		15	0.75	7.5	4.5	26.5(2.7)	15	20	0.75	7.5	6	35.3(3.6)	20	25	0.85	13.6	7.5	44.1(4.5)	25	30	0.85	13.6	9	51.6(5.3)	(30)	35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3		6.2	3		29.4(3.0)	WH13-10			2.2		12.7	6	88.3(9.0)	WH20- 25				0.75	5.2	3	17.7(1.8)	10	15	0.8	6.4	4.5	26.5(2.7)	15	20	0.9	9.9	6	35.3(3.6)	20	25	0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)			WH8- 10	10 - 19 pcs.	1.6	10.4		4.5		44.1(4.5)	WH14-15			2.3	12.7		6	88.3(9.0)	WH22- 20		1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)		(70)	75	1.0		5.4		3	17.7(1.8)	WH10- 10	10 - 19 pcs.			1.7	10.2	4.5	44.1(4.5)	WH16-15			2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80			
0.65	12.4	7.5	22.6(2.3)		25	30	0.65	12.4	9		26.5(2.7)	30	35	0.6	3.3		1.5	8.8(0.9)	WH5- 5*	10 - 19 pcs.	1.5	15.4	12	70.6(7.2)		WH13-10		2.2	15.4	7.5			109.8(11.2)	WH20- 25		0.7			5.5		3	17.7(1.8)		10		15	0.75	7.5		4.5	26.5(2.7)	15	20	0.75	7.5	6	35.3(3.6)	20	25	0.85	13.6	7.5	44.1(4.5)	25	30	0.85	13.6	9	51.6(5.3)	(30)	35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3		6.2	3		29.4(3.0)	WH13-10				2.2		12.7		6	88.3(9.0)	WH20- 25					0.75	5.2	3	17.7(1.8)	10	15	0.8	6.4	4.5	26.5(2.7)	15	20	0.9	9.9	6	35.3(3.6)	20	25	0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)				WH8- 10	10 - 19 pcs.	1.6		10.4		4.5		44.1(4.5)		WH14-15			2.3	12.7		6	88.3(9.0)	WH22- 20		1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4		35	19	111.8(11.4)		(70)		75	1.0		5.4			3	17.7(1.8)	WH10- 10	10 - 19 pcs.			1.7	10.2	4.5	44.1(4.5)	WH16-15			2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24
0.65	12.4	9	26.5(2.7)	30	35	0.6	3.3	1.5	8.8(0.9)	WH5- 5*	10 - 19 pcs.	1.5	15.4	12	70.6(7.2)	WH13-10		2.2		15.4	7.5	109.8(11.2)	WH20- 25				0.7	5.5	3	17.7(1.8)			10		15	0.75			7.5		4.5	26.5(2.7)		15		20	0.75	7.5		6	35.3(3.6)	20	25	0.85	13.6	7.5	44.1(4.5)	25	30	0.85	13.6	9	51.6(5.3)	(30)	35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)		WH13-10			2.2	12.7		6			88.3(9.0)		WH20- 25				0.75	5.2					3	17.7(1.8)	10	15	0.8	6.4	4.5	26.5(2.7)	15	20	0.9	9.9	6	35.3(3.6)	20	25	0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6					10.4	4.5		44.1(4.5)		WH14-15					2.3		12.7	6		88.3(9.0)	WH22- 20			1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4		35	19	111.8(11.4)		(70)		75	1.0		5.4			3	17.7(1.8)		WH10- 10			10 - 19 pcs.	1.7	10.2	4.5			44.1(4.5)	WH16-15		2.3	16.7		7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75
0.6	3.3	1.5	8.8(0.9)	WH5- 5*	10 - 19 pcs.	1.5	15.4	12	70.6(7.2)		WH13-10		2.2	15.4	7.5		109.8(11.2)	WH20- 25																																																																																																																																																																																																																																																																																																																																																																																			
0.7	5.5	3	17.7(1.8)		10	15	0.75	7.5	4.5			26.5(2.7)	15	20	0.75		7.5			6	35.3(3.6)	20		25			0.85	13.6	7.5	44.1(4.5)	25		30		0.85	13.6	9	51.6(5.3)	(30)		35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)	WH13-10		2.2	12.7	6	88.3(9.0)	WH20- 25		0.75	5.2	3	17.7(1.8)	10	15	0.8	6.4	4.5	26.5(2.7)		15	20	0.9	9.9	6			35.3(3.6)		20	25	0.9	9.9		7.5	44.1(4.5)			25	30	1.0	16	9			53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3	12.7	6	88.3(9.0)	WH22- 20		1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)	20	25	1.1		11.5	7.5	44.1(4.5)	25			30	1.2	16.8	9	53.0(5.4)			30	35		1.2	16.8	10.5	61.8(6.3)		35			40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)		25	30	1.3	13.9	9				53.0(5.4)	30	35	1.4	18			10.5		61.8(6.3)	35	40		1.4	18		12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																											
0.75	7.5	4.5	26.5(2.7)		15	20	0.75	7.5	6			35.3(3.6)	20	25	0.85		13.6			7.5	44.1(4.5)	25		30	0.85		13.6	9	51.6(5.3)	(30)	35	0.9	17.1		8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)	WH13-10		2.2		12.7	6	88.3(9.0)	WH20- 25			0.75	5.2	3	17.7(1.8)	10		15	0.8	6.4	4.5	26.5(2.7)	15	20	0.9	9.9	6	35.3(3.6)		20	25	0.9	9.9	7.5			44.1(4.5)	25	30	1.0	16	9		53.0(5.4)	30	35		1.0	16	10.5	61.8(6.3)	35		40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8	4.5	26.5(2.7)	15		20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2		16.8	9	53.0(5.4)	30	35		1.2	16.8	10.5	61.8(6.3)	35		40	1.2	16.8		12	70.6(7.2)	40	45	1.3	24.7			13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7	4.5	26.5(2.7)	15		20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)			35	40	1.4	18	12	70.6(7.2)		40	45		1.5	25	13.5		79.4(8.1)	45		50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																				
0.75	7.5	6	35.3(3.6)		20	25	0.85	13.6	7.5			44.1(4.5)	25	30	0.85		13.6		9	51.6(5.3)	(30)	35		0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)	WH13-10		2.2		12.7	6	88.3(9.0)	WH20- 25			0.75	5.2		3	17.7(1.8)	10		15		0.8	6.4	4.5	26.5(2.7)	15		20	0.9	9.9	6	35.3(3.6)	20	25	0.9	9.9	7.5	44.1(4.5)		25	30	1.0	16	9	53.0(5.4)		30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25		12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8		4.5	26.5(2.7)	15		20		1.1	11.5	6	35.3(3.6)	20		25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2		16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45		1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)		50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6	6	35.3(3.6)	20		25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40		45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25		15	88.3(9.0)	50	55	1.5	25		16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																													
0.85	13.6	7.5	44.1(4.5)		25	30	0.85	13.6	9	51.6(5.3)		(30)	35	0.9	17.1	8.8	51.6(5.3)		(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)	WH13-10		2.2		12.7	6	88.3(9.0)	WH20- 25			0.75	5.2		3	17.7(1.8)	10		15		0.8	6.4		4.5	26.5(2.7)	15		20		0.9	9.9	6	35.3(3.6)	20		25	0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8		4.5	26.5(2.7)	15		20		1.1	11.5		6	35.3(3.6)	20		25		1.1	11.5	7.5	44.1(4.5)	25		30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6	7.5	44.1(4.5)	25		30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																						
0.85	13.6	9	51.6(5.3)	(30)	35	0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)	WH13-10		2.2		12.7	6	88.3(9.0)	WH20- 25			0.75	5.2		3	17.7(1.8)	10		15		0.8	6.4		4.5	26.5(2.7)	15		20		0.9	9.9		6	35.3(3.6)	20		25		0.9	9.9	7.5	44.1(4.5)	25		30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6		88.3(9.0)	WH22- 20			1.0	8		4.5		26.5(2.7)	15		20	1.1	11.5		6		35.3(3.6)	20		25	1.1	11.5		7.5		44.1(4.5)	25	30	1.2	16.8		9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7		10.2	4.5	44.1(4.5)	WH16-15			2.3	16.7		7.5	109.8(11.2)	WH27- 30				1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6	7.5	44.1(4.5)	25		30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																						
0.9	17.1	8.8	51.6(5.3)	(35)	40	0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)		WH13-10		2.2	12.7	6		88.3(9.0)	WH20- 25			0.75	5.2		3		17.7(1.8)	10		15	0.8	6.4		4.5		26.5(2.7)	15		20	0.9	9.9		6		35.3(3.6)	20	25	0.9	9.9	7.5		44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0		8			4.5	26.5(2.7)	15		20		1.1	11.5		6	35.3(3.6)	20		25		1.1	11.5	7.5	44.1(4.5)	25	30		1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15			2.3	16.7	7.5		109.8(11.2)		WH27- 30			1.1	7			4.5		26.5(2.7)	15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6	7.5		44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																												
0.9	17.1	10.5	51.9(5.3)	(40)	45	0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)		WH13-10		2.2	12.7	6			88.3(9.0)	WH20- 25		0.75		5.2			3	17.7(1.8)	10		15		0.8	6.4		4.5	26.5(2.7)	15		20		0.9	9.9	6	35.3(3.6)	20	25		0.9	9.9	7.5	44.1(4.5)	25	30	1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)		15			20	1.1	11.5		6		35.3(3.6)	20	25	1.1	11.5	7.5		44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)		WH27- 30		1.1		7			4.5		26.5(2.7)	15			20		1.2	9.6	6	35.3(3.6)	20	25		1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																		
0.65	3.3	1.5	8.8(0.9)	WH6- 5*	10 - 19 pcs.	1.3	6.2	3	29.4(3.0)		WH13-10		2.2	12.7	6			88.3(9.0)	WH20- 25																																																																																																																																																																																																																																																																																																																																																																																		
0.75	5.2	3	17.7(1.8)		10	15	0.8	6.4	4.5			26.5(2.7)	15	20	0.9			9.9		6	35.3(3.6)			20		25	0.9		9.9		7.5	44.1(4.5)	25	30		1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3	12.7	6	88.3(9.0)	WH22- 20		1.0	8	4.5	26.5(2.7)	15	20	1.1	11.5	6	35.3(3.6)		20	25	1.1	11.5	7.5			44.1(4.5)	25	30	1.2			16.8		9	53.0(5.4)	30		35		1.2	16.8	10.5	61.8(6.3)		35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)	20	25	1.2		9.6	7.5	44.1(4.5)	25	30			1.3	13.9	9	53.0(5.4)			30	35		1.4	18		10.5	61.8(6.3)		35	40	1.4	18		12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																
0.8	6.4	4.5	26.5(2.7)		15	20	0.9	9.9	6			35.3(3.6)	20	25	0.9			9.9		7.5	44.1(4.5)	25		30		1.0	16	9	53.0(5.4)		30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8	4.5	26.5(2.7)	15		20	1.1	11.5	6	35.3(3.6)	20	25	1.1	11.5	7.5	44.1(4.5)		25	30	1.2	16.8	9			53.0(5.4)	30	35	1.2	16.8		10.5		61.8(6.3)	35	40	1.2	16.8		12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7	4.5	26.5(2.7)	15		20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3		13.9	9	53.0(5.4)	30	35			1.4	18	10.5	61.8(6.3)	35		40	1.4		18	12	70.6(7.2)	40	45		1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																									
0.9	9.9	6	35.3(3.6)		20	25	0.9	9.9	7.5			44.1(4.5)	25	30	1.0	16		9		53.0(5.4)	30	35	1.0	16		10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8		4.5	26.5(2.7)	15		20		1.1	11.5	6	35.3(3.6)	20		25	1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)		30	35	1.2	16.8	10.5	61.8(6.3)		35	40	1.2	16.8	12	70.6(7.2)	40		45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6	6	35.3(3.6)	20		25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4		18	10.5	61.8(6.3)	35	40	1.4		18	12	70.6(7.2)	40	45	1.5	25	13.5		79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																		
0.9	9.9	7.5	44.1(4.5)		25	30	1.0	16	9	53.0(5.4)		30	35	1.0	16	10.5	61.8(6.3)	35		40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8		4.5	26.5(2.7)	15		20		1.1	11.5		6	35.3(3.6)	20		25		1.1	11.5	7.5	44.1(4.5)	25		30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6	7.5	44.1(4.5)	25		30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																											
1.0	16	9	53.0(5.4)	30	35	1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)	WH14-15		2.3		12.7	6	88.3(9.0)	WH22- 20			1.0	8		4.5	26.5(2.7)	15		20		1.1	11.5		6	35.3(3.6)	20		25		1.1	11.5		7.5	44.1(4.5)	25		30		1.2	16.8	9	53.0(5.4)	30		35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5		109.8(11.2)	WH27- 30			1.1	7		4.5		26.5(2.7)	15		20	1.2	9.6		6		35.3(3.6)	20		25	1.2	9.6		7.5		44.1(4.5)	25	30	1.3	13.9		9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																														
1.0	16	10.5	61.8(6.3)	35	40	1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6		88.3(9.0)	WH22- 20			1.0	8		4.5		26.5(2.7)	15		20	1.1	11.5		6		35.3(3.6)	20		25	1.1	11.5		7.5		44.1(4.5)	25	30	1.2	16.8	9		53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1		7			4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6	7.5	44.1(4.5)	25	30		1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																				
1.1	25	12	70.6(7.2)	40	45	1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0		8			4.5	26.5(2.7)	15		20		1.1	11.5		6	35.3(3.6)	20		25		1.1	11.5	7.5	44.1(4.5)	25	30		1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)		15			20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6	7.5		44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																										
1.1	25	13.5	66.7(6.8)	(45)	50	1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)		15			20	1.1	11.5		6		35.3(3.6)	20	25	1.1	11.5	7.5		44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2		9.6		6	35.3(3.6)	20	25		1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																
1.2	39.6	10	58.8(6.0)	(50)	55	1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)			15		20	1.1		11.5		6	35.3(3.6)	20	25		1.1	11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2		9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																						
1.2	39.6	14.5	85.3(8.7)	(55)	60	1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)			15		20	1.1	11.5		6		35.3(3.6)	20	25	1.1		11.5	7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6		7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																												
1.2	39.6	14	82.4(8.4)	(60)	65	1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)			15		20	1.1	11.5		6		35.3(3.6)	20	25	1.1	11.5		7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6		7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																		
1.2	39.6	14	82.4(8.4)	(65)	70	1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)			15		20	1.1	11.5		6		35.3(3.6)	20	25	1.1	11.5		7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6		7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																								
1.2	39.6	15	88.3(9.0)	(70)	75	0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20		1.0			8		4.5	26.5(2.7)			15		20	1.1	11.5		6		35.3(3.6)	20	25	1.1	11.5		7.5	44.1(4.5)	25	30	1.2	16.8	9	53.0(5.4)	30	35	1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6		7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																														
0.9	5.4	3	17.7(1.8)	WH8- 10	10 - 19 pcs.	1.6	10.4	4.5	44.1(4.5)		WH14-15		2.3	12.7	6			88.3(9.0)	WH22- 20																																																																																																																																																																																																																																																																																																																																																																																		
1.0	8	4.5	26.5(2.7)		15	20	1.1	11.5	6			35.3(3.6)	20	25	1.1			11.5		7.5	44.1(4.5)			25		30	1.2	16.8		9		53.0(5.4)	30	35	1.2	16.8		10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3	16.7	7.5	109.8(11.2)	WH27- 30		1.1	7	4.5	26.5(2.7)	15	20	1.2	9.6	6	35.3(3.6)		20	25	1.2	9.6	7.5			44.1(4.5)	25	30	1.3			13.9		9	53.0(5.4)	30		35		1.4	18	10.5	61.8(6.3)	35		40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																									
1.1	11.5	6	35.3(3.6)		20	25	1.1	11.5	7.5			44.1(4.5)	25	30	1.2			16.8		9	53.0(5.4)	30		35		1.2	16.8	10.5	61.8(6.3)	35		40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7	4.5	26.5(2.7)	15		20	1.2	9.6	6	35.3(3.6)	20	25	1.2	9.6	7.5	44.1(4.5)		25	30	1.3	13.9	9			53.0(5.4)	30	35	1.4	18		10.5		61.8(6.3)	35	40	1.4	18		12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																		
1.1	11.5	7.5	44.1(4.5)		25	30	1.2	16.8	9			53.0(5.4)	30	35	1.2	16.8		10.5		61.8(6.3)	35	40	1.2	16.8		12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6	6	35.3(3.6)	20		25	1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)		30	35	1.4	18	10.5	61.8(6.3)		35	40	1.4	18	12	70.6(7.2)	40		45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																											
1.2	16.8	9	53.0(5.4)		30	35	1.2	16.8	10.5	61.8(6.3)		35	40	1.2	16.8	12	70.6(7.2)	40		45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6	7.5	44.1(4.5)	25		30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																				
1.2	16.8	10.5	61.8(6.3)	35	40	1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)	WH16-15		2.3		16.7	7.5	109.8(11.2)	WH27- 30			1.1	7		4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6		7.5	44.1(4.5)	25		30		1.3	13.9	9	53.0(5.4)	30		35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																										
1.2	16.8	12	70.6(7.2)	40	45	1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5		109.8(11.2)	WH27- 30			1.1	7		4.5		26.5(2.7)	15		20	1.2	9.6		6		35.3(3.6)	20		25	1.2	9.6		7.5		44.1(4.5)	25	30	1.3	13.9	9		53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																
1.3	24.7	13.5	79.4(8.1)	45	50	1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1		7			4.5	26.5(2.7)	15		20		1.2	9.6		6	35.3(3.6)	20		25		1.2	9.6	7.5	44.1(4.5)	25	30		1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																						
1.3	24.7	15	88.3(9.0)	50	55	1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)		15			20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6	7.5		44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																												
1.4	35	16.5	97.1(9.9)	55	60	1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2		9.6		6	35.3(3.6)	20	25		1.2	9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																		
1.4	35	18	105.9(10.8)	60	65	1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2		9.6	7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																								
1.4	35	17	100.0(10.2)	(65)	70	1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6		7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																														
1.4	35	19	111.8(11.4)	(70)	75	1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30		1.1			7		4.5	26.5(2.7)			15		20	1.2	9.6		6		35.3(3.6)	20	25	1.2	9.6		7.5	44.1(4.5)	25	30	1.3	13.9	9	53.0(5.4)	30	35	1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																				
1.0	5.4	3	17.7(1.8)	WH10- 10	10 - 19 pcs.	1.7	10.2	4.5	44.1(4.5)		WH16-15		2.3	16.7	7.5			109.8(11.2)	WH27- 30																																																																																																																																																																																																																																																																																																																																																																																		
1.1	7	4.5	26.5(2.7)		15	20	1.2	9.6	6			35.3(3.6)	20	25	1.2			9.6		7.5	44.1(4.5)			25		30	1.3	13.9		9		53.0(5.4)	30	35	1.4	18		10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																												
1.2	9.6	6	35.3(3.6)		20	25	1.2	9.6	7.5			44.1(4.5)	25	30	1.3			13.9		9	53.0(5.4)	30		35		1.4	18	10.5	61.8(6.3)	35		40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																					
1.2	9.6	7.5	44.1(4.5)		25	30	1.3	13.9	9			53.0(5.4)	30	35	1.4	18		10.5		61.8(6.3)	35	40	1.4	18		12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																														
1.3	13.9	9	53.0(5.4)		30	35	1.4	18	10.5	61.8(6.3)		35	40	1.4	18	12	70.6(7.2)	40		45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																							
1.4	18	10.5	61.8(6.3)	35	40	1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																
1.4	18	12	70.6(7.2)	40	45	1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																						
1.5	25	13.5	79.4(8.1)	45	50	1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																												
1.5	25	15	88.3(9.0)	50	55	1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																																		
1.5	25	16.5	97.1(9.9)	55	60	1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																																								
1.5	25	18	105.9(10.8)	60	65	1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																																														
1.6	35	19.5	114.7(11.7)	65	70	1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																																																				
1.6	35	21	123.6(12.6)	70	75	1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																																																										
1.7	45.9	24	141.0(14.4)	80	80																																																																																																																																																																																																																																																																																																																																																																																																

• Load calculation method = Spring constant x Deflection (Int'l Unit) N=N/mmxFmm

kgf=kgf/mmxFmm  
(kgf=Nx0.101972)

Ⓢ The values of solid length are for reference only. There may be some variations depending on the lot.

Ⓢ Usage Count: 1 Million Times

Ⓢ Product Outline P.327

Ⓢ How to use coil springs, and precautions P.328

Ⓢ Allowable Deflection of (L) Size

WH5-30Fmax.=Lx25%

WH5-35Fmax.=Lx25%

WH5-40Fmax.=Lx22%

WH6-45Fmax.=Lx25%

WH6-50Fmax.=Lx20%

WH6-55Fmax.=Lx26%

WH6-60Fmax.=Lx23%

WH6-65Fmax.=Lx21%

WH6-70Fmax.=Lx21%

WH8-65Fmax.=Lx26%

WH8 -70Fmax. =Lx27%

WH18-90Fmax. =Lx29%

WH18-100Fmax. =Lx24%

WH22-90Fmax. =Lx29%

WH22-100Fmax. =Lx26%

Ⓢ Both ends of \* marked WH Type springs are not ground.