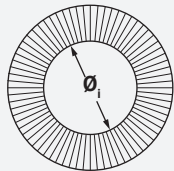


# STEEL ORIGINAL WASHERS

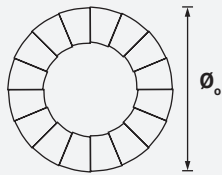
## DIMENSIONS

Delta Protect® Zinc Flake Coating

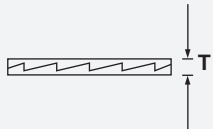
Through hardened EN 1.7182  
or equivalent



NL3 – NL8  
Ø<sub>i</sub> ±0.004 inch  
NL10 – NL42  
Ø<sub>i</sub> ±0.008 inch  
NL45 – NL130  
Ø<sub>i</sub> +0.02/-0 inch



NL3-NL24 (NL1\*)  
Ø<sub>o</sub> ±0.008 inch  
NL27 – NL42  
Ø<sub>o</sub> ±0.012 inch  
NL45 – NL130  
Ø<sub>o</sub> +0/-0.08 inch



NL3 – NL42  
T ±0.01 inch  
NL45 – NL130  
T ±0.03 inch

Note that washers with thickness 0.26 inch have a thickness tolerance +0.0 / -0.02 inch

Nord-Lock steel washers in sizes NL3–NL52 with zinc flake coating are standard stock items.

- Torque guide  
(Kellermann & Klein or VDI2230):  
[torquelator.nord-lock.com](http://torquelator.nord-lock.com)
- 2D/3D CAD models  
and current dimensions:  
[nord-lock.com/cad](http://nord-lock.com/cad)

Bolt size	Washer	Ø <sub>i</sub>	Ø <sub>o</sub>	Thickness T	Approx. weight	Min. Package	
Metric	UNC	[inch]	[inch]	[inch]	lbs/100 pairs	[pairs]	
M3	#5	NL3	0.13	0.13	0.07	0.07	200
M3.5	#6	NL3.5	0.15	0.15	0.07	0.09	200
M3.5	#6	NL3.5sp	0.15	0.15	0.07	0.13	200
M4	#8	NL4	0.17	0.17	0.07	0.09	200
M4	#8	NL4sp	0.17	0.17	0.07	0.13	200
M5	#10	NL5	0.21	0.21	0.07	0.11	200
M5	#10	NL5sp	0.21	0.21	0.07	0.24	200
M6		NL6	0.26	0.26	0.07	0.15	200
M6		NL6sp	0.26	0.26	0.10	0.44	200
	1/4"	NL1/4"	0.28	0.28	0.10	0.18	200
	1/4"	NL1/4"sp	0.28	0.28	0.10	0.40	200
M8	5/16"	NL8	0.34	0.34	0.10	0.33	200
M8	5/16"	NL8sp	0.34	0.34	0.10	0.62	200
	3/8"	NL3/8"	0.41	0.41	0.10	0.51	200
	3/8"	NL3/8"sp	0.41	0.41	0.10	1.06	200
M10		NL10	0.42	0.42	0.10	0.49	200
M10		NL10sp	0.42	0.42	0.10	1.04	200
M11	7/16"	NL11	0.45	0.45	0.10	0.64	200
M12		NL12	0.51	0.51	0.10	0.64	200
M12		NL12sp	0.51	0.51	0.13	2.05	100
	1/2"	NL1/2"	0.53	0.53	0.10	0.60	200
	1/2"	NL1/2"sp	0.53	0.53	0.13	1.98	100
M14	9/16"	NL14	0.60	0.60	0.13	1.23	100
M14	9/16"	NL14sp	0.60	0.60	0.13	3.11	100
M16	5/8"	NL16	0.67	0.67	0.13	1.48	100
M16	5/8"	NL16sp	0.67	0.67	0.13	2.82	100
M18		NL18	0.77	0.77	0.13	1.96	100
M18		NL18sp	0.77	0.77	0.13	3.48	100
	3/4"	NL3/4"	0.79	0.79	0.13	2.31	100
	3/4"	NL3/4"sp	0.79	0.79	0.13	4.85	100
M20		NL20	0.84	0.84	0.13	2.05	100
M20		NL20sp	0.84	0.84	0.13	4.61	100
M22	7/8"	NL22	0.92	0.92	0.13	2.76	100
M22	7/8"	NL22sp	0.92	0.92	0.18	7.03	50
M24		NL24	1.00	1.00	0.13	3.83	100
M24		NL24sp	1.00	1.00	0.18	9.94	50
	1"	NL1"	1.10	1.10	0.13	3.37	100
	1"	NL1"sp	1.10	1.10	0.18	9.26	50
M27		NL27	1.12	1.12	0.23	6.92	50
M27		NL27sp	1.12	1.12	0.23	11.62	25
M30	1 1/8"	NL30	1.24	1.24	0.23	9.04	50
M30	1 1/8"	NL30sp	1.24	1.24	0.26	18.91	25
M33	1 1/4"	NL33	1.35	1.35	0.23	8.58	25
M33	1 1/4"	NL33sp	1.35	1.35	0.26	17.63	25
M36	1 3/8"	NL36	1.47	1.47	0.26	12.10	25
M36	1 3/8"	NL36sp	1.47	1.47	0.26	20.17	25
M39	1 1/2"	NL39	1.59	1.59	0.26	12.99	25
M42		NL42	1.70	1.70	0.26	17.57	25
M45	1 3/4"	NL45	1.82	1.82	0.28	22.49	25
M48		NL48	1.95	1.95	0.28	26.46	25
M52	2"	NL52	2.11	2.11	0.28	28.66	25
M56	2 1/4"	NL56	2.33	2.33	0.28	29.76	10
M60		NL60	2.48	2.48	0.28	33.51	10
M64	2 1/2"	NL64	2.64	2.64	0.28	36.82	10
M68		NL68	2.80	2.80	0.37	62.17	1
M72		NL72	2.96	2.96	0.37	67.68	1
M76	3"	NL76	3.11	3.11	0.37	73.41	1
M80	3 1/8"	NL80	3.27	3.27	0.37	79.37	1
M85		NL85	3.47	3.47	0.37	83.33	1
M90		NL90	3.64	3.64	0.37	105.16	1
M95		NL95	3.83	3.83	0.37	109.79	1
M100	4"	NL100	4.07	4.07	0.37	129.85	1
M105		NL105	4.27	4.27	0.37	135.14	1
M110		NL110	4.46	4.46	0.37	139.99	1
M115		NL115	4.66	4.66	0.37	166.01	1
M120		NL120	4.86	4.86	0.37	171.74	1
M125		NL125	5.06	5.06	0.37	168.87	1
M130	5"	NL130	5.25	5.25	0.37	174.60	1