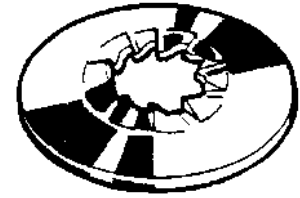
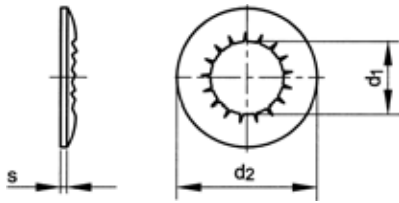


Heavy domed internal serrated lock washer type JZC

NF E25-512



Technical data

For nom.size	d ₁	d ₂	s
M3	3,2	8,7	0,5
M4	4,3	11,2	0,6
M5	5,1	16,2	1
M6	6,1	18,3	1
M10	10,2	26,3	1,4
M12	12,2	32,4	1,4
M16	16,5	32,4	1,4
M20	20,5	39,4	1,8

- The main purpose of toothed lock washers is to permit the flow of electric current between components coated by varnish, anti-corrosive agents or similar materials, the bend ends of the washers piercing the coating when such components are joined. Where such washers are intended to keep fasteners of a low property class from working loose, their effectiveness shall be checked for the application concerned.
- Internal teeth and extra large outside diameter d₂, extra resilience because of its domed form.

37560 Heavy domed internal serrated lock washer type JZC

L07D

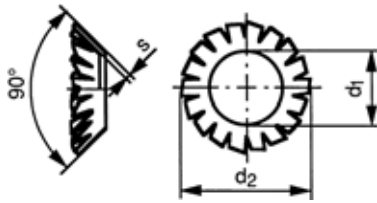
Material Spring steel
Packaging Standard



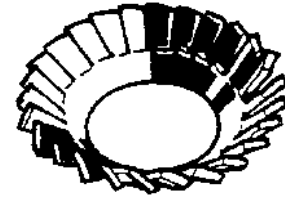
For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M3	1000	37560.030.001	M6	1000	37560.060.001	M16	100	37560.160.001
M4	1000	37560.040.001	M10	100	37560.100.001	M20	100	37560.200.001
M5	1000	37560.050.001	M12	100	37560.120.001			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

Countersunk serrated lock washer external teeth



DIN 6798 V
NF E27-627



Technical data

For nom.size	d_1	$d_2 \approx$	s
M3	3,2	6	0,2
M4	4,3	8	0,25
M5	5,3	9,8	0,3
M6	6,4	11,8	0,4
M8	8,4	15,3	0,4
M10	10,5	19	0,5
M12	13	23	0,5
M14	15	26,2	0,6
M16	17	30,2	0,6

- The main purpose of toothed lock washers is to permit the flow of electric current between components coated by varnish, anti-corrosive agents or similar materials, the bend ends of the washers piercing the coating when such components are joined. Where such washers are intended to keep fasteners of a low property class from working loose, their effectiveness shall be checked for the application concerned.
- Suitable for bolts and nuts with normal widths across flats.

Article groups

Material	Surface treatment	Packaging	Code	Page
Spring steel 350-425 HV10		Standard	37500	7-53
Spring steel 350-425 HV10	Zipl	Standard	37520	7-53

37500	Countersunk serrated lock washer external teeth		L07D
Material	Spring steel 350-425 HV10		
Packaging	Standard		

For nom. size	✉	Art.number	For nom. size	✉	Art.number	For nom. size	✉	Art.number
M3	1000	37500.030.001	M6	1000	37500.060.001	M12	500	37500.120.001
M4	1000	37500.040.001	M8	1000	37500.080.001	M14	100	37500.140.001
M5	1000	37500.050.001	M10	1000	37500.100.001	M16	100	37500.160.001

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

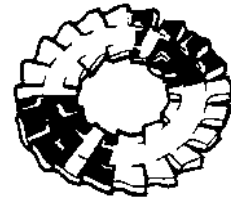
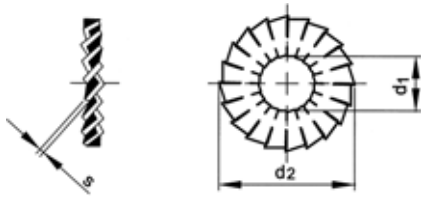
37520	Countersunk serrated lock washer external teeth		L07D
Material	Spring steel 350-425 HV10		
Surface treatment	Zinc plated		
Packaging	Standard		

For nom. size	✉	Art.number	For nom. size	✉	Art.number	For nom. size	✉	Art.number
M4	1000	37520.040.001	M6	1000	37520.060.001	M10	1000	37520.100.001
M5	1000	37520.050.001	M8	1000	37520.080.001	M12	500	37520.120.001

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

Double serrated lock washer type DD

NF E27-626



Technical data

For nom.size	d ₁	d ₂	s
M4	4,2	15,6	0,8
M5	5,2	17,9	0,8
M6	6,2	18,2	0,8
M8	8,2	22,3	1
M10	10,3	26,1	1,1
M12	12,3	30,3	1,2
M16	16,5	36,1	1,4

- The main purpose of toothed lock washers is to permit the flow of electric current between components coated by varnish, anti-corrosive agents or similar materials, the bend ends of the washers piercing the coating when such components are joined. Where such washers are intended to keep fasteners of a low property class from working loose, their effectiveness shall be checked for the application concerned.
- Double serrated teeth and extra large outside diameter d₂. Recommended for oversize and elongated holes, where a larger contact surface is required and between parts to prevent them from moving.

Article groups

Material	Surface treatment	Packaging	Code	Page
Spring steel		Standard	37580	7-54
Spring steel	Zipl	Standard	37590	7-54

37580 Double serrated lock washer type DD		L07D
Material	Spring steel	
Packaging	Standard	

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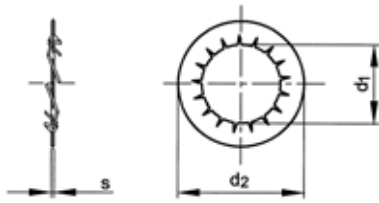
For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M4	1000	37580.040.001	M8	500	37580.080.001	M16	100	37580.160.001
M5	1000	37580.050.001	M10	500	37580.100.001			
M6	500	37580.060.001	M12	100	37580.120.001			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

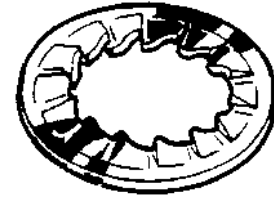
37590 Double serrated lock washer type DD		L07D
Material	Spring steel	
Surface treatment	Zinc plated	
Packaging	Standard	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M4	1000	37590.040.001	M8	500	37590.080.001	M16	100	37590.160.001
M5	1000	37590.050.001	M10	500	37590.100.001			
M6	500	37590.060.001	M12	100	37590.120.001			

Serrated lock washer internal teeth



DIN 6798 J
 NEN 2454
 NF E27-625



Technical data

For nom.size	d ₁	d ₂	s
M2	2,2	4,5	0,3
M2,3 (#DIN)	2,5	5	0,4
M2,5	2,7	5,5	0,4
M3	3,2	6	0,4
M3,5	3,7	7	0,5
M4	4,3	8	0,5
M5 (#DIN)	5,1	9	0,5
M5	5,3	10	0,6
M6	6,4	11	0,7
M7	7,4	12,5	0,8
M8 (#DIN)	8,2	14	0,8
M8	8,4	15	0,8
M10	10,5	18	0,9
M12	12,5	20,5	1
M14	15	24	1,1
M16	17	26	1,2
M18	19	30	1,4
M20	21	33	1,4
M22	23	36	1,5
M24	25	38	1,5
1.IN.	25	38	1,5
M27	28	44	1,6
M30	31	48	1,6

- The main purpose of toothed lock washers is to permit the flow of electric current between components coated by varnish, anti-corrosive agents or similar materials, the bend ends of the washers piercing the coating when such components are joined. Where such washers are intended to keep fasteners of a low property class from working loose, their effectiveness shall be checked for the application concerned.
- Suitable for bolts and nuts with normal widths across flats.

Article groups

Material	Surface treatment	Packaging	Code	Page
Spring steel 350-425 HV10		Standard	37460	7-55
Spring steel 350-425 HV10	Zipl	Standard	37480	7-56
St.St. A2		Standard	51462	7-56
St.St. A4		Standard	55462	7-56

37460 Serrated lock washer internal teeth

L07D

Material Spring steel 350-425 HV10
Packaging Standard



For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2	1000	37460.020.001	M7	1000	37460.070.001	M18	100	37460.180.001
M3	1000	37460.030.001	M8 (#DIN)	1000	37460.080.001	M20	100	37460.200.001
M3,5	1000	37460.035.001	M8	1000	37460.080.002	M22	100	37460.220.001
M4	1000	37460.040.001	M10	1000	37460.100.001	M24	100	37460.240.001
M5 (#DIN)	1000	37460.050.001	M12	1000	37460.120.001	M27	100	37460.270.001
M5	1000	37460.050.002	M14	500	37460.140.001	M30	100	37460.300.001
M6	1000	37460.060.001	M16	500	37460.160.001			

37480 Serrated lock washer internal teeth		L07D
Material	Spring steel 350-425 HV10	
Surface treatment	Zinc plated	
Packaging	Standard	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2		1000 37480.020.001	M6		1000 37480.060.001	M16		500 37480.160.001
M2,5		1000 37480.025.001	M7		1000 37480.070.001	M18		100 37480.180.001
M3		1000 37480.030.001	M8 (≠DIN)		1000 37480.080.001	M20		100 37480.200.001
M3,5		1000 37480.035.001	M8 (8,4MM)		1000 37480.080.002	M22		100 37480.220.001
M4		1000 37480.040.001	M10		1000 37480.100.001	M24		100 37480.240.001
M5 (≠DIN)		1000 37480.050.001	M12		1000 37480.120.001			
M5		1000 37480.050.002	M14		500 37480.140.001			

51462 Serrated lock washer internal teeth		R09A
Material	Stainless steel A2	
Packaging	Standard	
	DIN ≈6798 J	
	NEN ≈2454	
	NF ≈E27-625	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2,5		200 51462.025.001	M10		100 51462.100.001	M22 *		200 51462.220.001
M3		200 51462.030.001	M12		100 51462.120.001	M24		50 51462.240.001
M4		200 51462.040.001	M14		100 51462.140.001	M27		50 51462.270.001
M5		200 51462.050.001	M16		100 51462.160.001	M30 *		100 51462.300.001
M6		200 51462.060.001	M18		100 51462.180.001			
M8		200 51462.080.001	M20		100 51462.200.001			

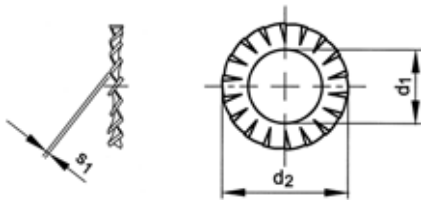
- The austenetic steel type is at the manufacturer's discretion, and can vary from the steel types stated in DIN 267-11.

55462 Serrated lock washer internal teeth		R49A
Material	Stainless steel A4	
Packaging	Standard	
	DIN ≈6798 J	
	NEN ≈2454	
	NF ≈E27-625	

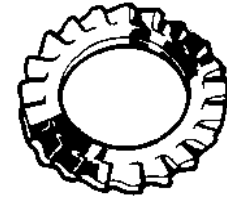
For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2,3 *		1000 55462.023.001	M8		200 55462.080.001	M18		100 55462.180.001
M3		200 55462.030.001	M10		100 55462.100.001	M20		100 55462.200.001
M4		200 55462.040.001	M12		100 55462.120.001	M24		50 55462.240.001
M5		200 55462.050.001	M14		100 55462.140.001			
M6		200 55462.060.001	M16		100 55462.160.001			

- The austenetic steel type is at the manufacturer's discretion, and can vary from the steel types stated in DIN 267-11.

Serrated lock washer external teeth



DIN 6798 A
 NEN 2453
 NF E27-624



Technical data

For nom.size	d ₁	d ₂	s ₁
M2	2,2	4,5	0,3
M2,5	2,7	5,5	0,4
M2,6 (#DIN)	2,8	5,5	0,4
M3	3,2	6	0,4
M3,5	3,7	7	0,5
M4	4,3	8	0,5
M5 (#DIN)	5,1	9	0,5
M5	5,3	10	0,6
M6	6,4	11	0,7
M7	7,4	12,5	0,8
M8 (#DIN)	8,2	14	0,8
M8	8,4	15	0,8
M10	10,5	18	0,9
M11 (#DIN)	11,5	19,5	0,9
M12	13	20,5	1
1/2	13,2	22	1
M14	15	24	1
M16	17	26	1,2
M18	19	30	1,4
M20	21	33	1,4
M22	23	36	1,5
M24	25	38	1,5
M27	28	44	1,6
M30	31	48	1,6

- The main purpose of toothed lock washers is to permit the flow of electric current between components coated by varnish, anti-corrosive agents or similar materials, the bend ends of the washers piercing the coating when such components are joined. Where such washers are intended to keep fasteners of a low property class from working loose, their effectiveness shall be checked for the application concerned.
- Suitable for bolts and nuts with normal widths across flats.

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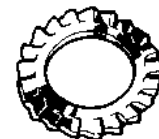
Article groups

Material	Surface treatment	Packaging	Code	Page
Spring steel 350-425 HV10		Standard	37400	7-57
Spring steel 350-425 HV10	Zipl	Standard	37420	7-58
Spring steel 350-425 HV10	Zipl	Large	37430	7-58
Spring steel 350-425 HV10	Zipl yell.p.	Standard	37440	7-58
St.St. A2		Standard	51460	7-58
St.St. A4		Standard	55460	7-58
Phosphor bronze Cu4		Standard	50540	7-59

37400 Serrated lock washer external teeth

L07D

Material Spring steel 350-425 HV10
Packaging Standard



For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2	1000	37400.020.001	M7	1000	37400.070.001	M18	100	37400.180.001
M3	1000	37400.030.001	M8 (#DIN)	1000	37400.080.001	M20	100	37400.200.001
M3,5	1000	37400.035.001	M8	1000	37400.080.002	M22	100	37400.220.001
M4	1000	37400.040.001	M10	1000	37400.100.001	M24	100	37400.240.001
M5 (#DIN)	1000	37400.050.001	M12	1000	37400.120.001	M27	100	37400.270.001
M5	1000	37400.050.002	M14	500	37400.140.001	M30	100	37400.300.001
M6	1000	37400.060.001	M16	500	37400.160.001			

- Warning: electro-galvanizing of these products may cause hydrogen embrittlement.

37420	Serrated lock washer external teeth	L07D
Material	Spring steel 350-425 HV10	
Surface treatment	Zinc plated	
Packaging	Standard	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2	200	37420.020.001	M7	200	37420.070.001	M18	100	37420.180.001
M2,5	200	37420.025.001	M8 (#DIN)	200	37420.080.001	M20	100	37420.200.001
M3	200	37420.030.001	M8	200	37420.080.002	M22	100	37420.220.001
M3,5	200	37420.035.001	M10	100	37420.100.001	M24	100	37420.240.001
M4	200	37420.040.001	M11	100	37420.110.001	M27	100	37420.270.001
M5 (#DIN)	200	37420.050.001	M12	100	37420.120.001	M30	50	37420.300.001
M5	200	37420.050.002	M14	100	37420.140.001			
M6	200	37420.060.001	M16	100	37420.160.001			

37430	Serrated lock washer external teeth	L07D
Material	Spring steel 350-425 HV10	
Surface treatment	Zinc plated	
Packaging	Large	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2,5	10000	37430.025.001	M5 (#DIN)	10000	37430.050.001	M10	2000	37430.100.001
M3	10000	37430.030.001	M6	5000	37430.060.001	M12	2000	37430.120.001
M4	10000	37430.040.001	M8 (#DIN)	5000	37430.080.001			

37440	Serrated lock washer external teeth	L07D
Material	Spring steel 350-425 HV10	
Surface treatment	Zinc plated yellow passivated	
Packaging	Standard	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M3	200	37440.030.001	M8 (8,2MM)	200	37440.080.001	M20	100	37440.200.001
M4	200	37440.040.001	M10	100	37440.100.001	M24	100	37440.240.001
M5 (5,1MM)	200	37440.050.001	M12	100	37440.120.001			
M6	200	37440.060.001	M16	100	37440.160.001			

51460	Serrated lock washer external teeth	R09A
Material	Stainless steel A2	
Packaging	Standard	
	DIN ≈6798 A	
	NEN ≈2453	
	NF ≈E27-624	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2	200	51460.020.001	M6	200	51460.060.001	M16	100	51460.160.001
M2,5	200	51460.025.001	M7	200	51460.070.001	M18	100	51460.180.001
M2,6 (#DIN)	200	51460.026.001	M8	200	51460.080.001	M20	100	51460.200.001
M3	200	51460.030.001	M10	100	51460.100.001	M22	50	51460.220.001
M3,5	200	51460.035.001	M12	100	51460.120.001	M24	50	51460.240.001
M4	200	51460.040.001	1/2	100	51460.127.001	M27	50	51460.270.001
M5	200	51460.050.001	M14	100	51460.140.001	M30	25	51460.300.001

• The austenetic steel type is at the manufacturer's discretion, and can vary from the steel types stated in DIN 267-11.

55460	Serrated lock washer external teeth	R49A
Material	Stainless steel A4	
Packaging	Standard	
	DIN ≈6798 A	
	NEN ≈2453	
	NF ≈E27-624	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2	200	55460.020.001	M2,6 (#DIN)	200	55460.026.001	M3,5	200	55460.035.001
M2,5	200	55460.025.001	M3	200	55460.030.001	M4	200	55460.040.001

55460 Serrated lock washer external teeth ←

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M5	200	55460.050.001	M14	100	55460.140.001	M24	50	55460.240.001
M6	200	55460.060.001	M16	100	55460.160.001	M27	50	55460.270.001
M8	200	55460.080.001	M18	100	55460.180.001	M30	25	55460.300.001
M10	100	55460.100.001	M20	100	55460.200.001			
M12	100	55460.120.001	M22	50	55460.220.001			

- The austenetic steel type is at the manufacturer's discretion, and can vary from the steel types stated in DIN 267-11.

50540 Serrated lock washer external teeth M11F

Material	Phosphor bronze Cu4	
Packaging	Standard	
	DIN ≈6798 A	
	NEN ≈2453	
	NF ≈E27-624	

For nom. size	☒	Art.number	For nom. size	☒	Art.number	For nom. size	☒	Art.number
M2	200	50540.020.001	M4	200	50540.040.001	M10	100	50540.100.001
M2,5	200	50540.025.001	M5	200	50540.050.001	M12	100	50540.120.001
M3	200	50540.030.001	M6	200	50540.060.001			
M3,5	200	50540.035.001	M8	200	50540.080.001			

- Suitable for bolts and nuts with normal widths across flats.