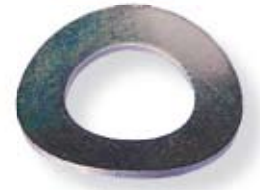
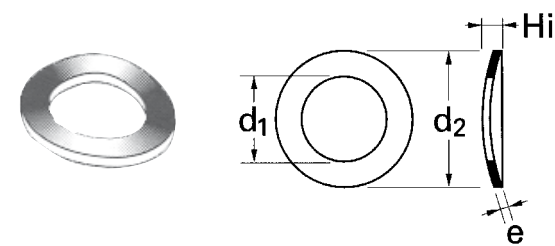
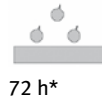


Onduflex® waved Spring locking Washers

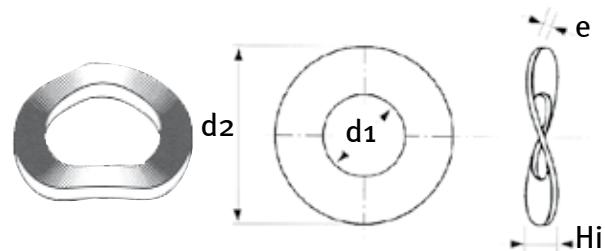


English	Français	Deutsch	Italiano	Español
Waved spring locking washers	Rondelles Onduflex® blocage normale	Gewellte Sicherungsfeder-scheibe	Rondelle elastiche ondulate di bloccaggio	Arandelas onduladas de bloqueo
Steel C60S to C75S	Acier C60S à C75S	Stahl C60S bis C75S	Acciaio C60S a C75S	Acero C60S a C75S
Zinc plated	Zingué	Verzinkt	Bianco	Zincado
Clear passivated 5µ	Passivé clair 5µ	Klar chromatiert 5µ	Bianco 5µ	Passivado claro 5µ
<i>Stainless steel on special request</i>	<i>Inox sur demande</i>	<i>Edelstahl auf Anfrage</i>	<i>acciaio inossidabile a richiesta</i>	<i>Acero inoxidable bajo pedido</i>
Hardness: 440 to 520 Hv	Dureté: 440 à 520 Hv	Härte: 440 bis 520 Hv	Durezza: 440 a 520 Hv	Dureza: 440 a 520 Hv

*: to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa / al óxido rojo



„A“ version:
1 wave / onde / Welle / onda / onda
Standard: DIN 137A



„B“ version:
2 waves for soft and brittle materials / 2 ondes pour matériaux tendres ou fragiles / 2 Wellen für weiche und spröde Werkstoffe / 2 onde per materiali teneri o fragili / 2 ondas para materiales blandos o quebradizos
Standard: NFE 27620 (DIN 137B for some part numbers / pour quelques références / für einige Artikelnummern / per alcuni numeri di codice / para algunas referencias)

screw / vis / Schraube / vite / tornillo ø	ø d1	ø d2	e	Hi min.	Hi max.	Part No/ref
„A“ version						
3	3.2 +0.30	6.0 ±0.38	0.4 ±0.05	0.65	1.30	50 03 01
4	4.3 +0.30	8.0 ±0.45	0.5 ±0.05	0.80	1.60	50 04 01
5	5.2 +0.30	9.0 ±0.45	0.5 ±0.05	1.20	1.60	50 05 01
5	5.3 +0.30	10.0 ±0.45	0.5 ±0.05	0.90	1.80	50 05 37
6	6.4 +0.36	11.0 ±0.55	0.5 ±0.05	1.10	2.20	50 06 01
8	8.4 +0.36	15.0 ±0.55	0.5 ±0.05	1.70	3.40	50 08 01
10	10.5 +0.43	18.0 ±0.55	0.8 ±0.06	2.00	4.00	50 10 01
„B“ version						
3	3.2 +0.30	6.0 ±0.24	0.4 ±0.03	0.80	1.20	52 03 01
4	4.3 +0.30	9.0 ±0.29	0.5 ±0.03	1.00	1.50	52 04 01 ¹⁾
5	5.3 +0.30	10.0 ±0.29	0.5 ±0.03	1.20	1.70	52 05 01
6	6.4 +0.36	12.0 ±0.35	0.5 ±0.03	1.30	2.00	52 06 01 ¹⁾
7	7.4 +0.36	14.0 ±0.35	0.8 ±0.03	1.50	2.40	52 07 01 ¹⁾
8	8.4 +0.36	17.0 ±0.35	0.8 ±0.03	1.70	2.80	52 08 01
10	10.5 +0.43	21.0 ±0.42	1.0 ±0.04	2.10	3.40	52 10 01 ¹⁾
12	13.0 +0.43	24.0 ±0.42	1.2 ±0.04	2.50	3.80	52 12 01 ¹⁾
14	15.0 +0.43	28.0 ±0.42	1.5 ±0.05	3.00	4.40	52 14 01

all dimensions in mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

1) DIN 137B

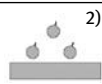


Onduflex[®] waved Spring locking Washers

screw / vis / Schraube / vite / tornillo Ø	Ø d1	Ø d2	e	Hi min.	Hi max.	Part No/ref
„B“ special version with increased stiffness (higher load to be applied to flatten) / version spéciale à charge d'aplatissement supérieure / mit erhöhter Steifigkeit (zur Aufnahme höherer Vorspannkraft) / versione speciale con rigidità aumentata (maggiore carico richiesto per l'appiattimento) / versión especial de gran rigidez (admite mayores cargas)						
4	4.2 +0.30	8.0 ±0.29	0.5 ±0.03	0.90	1.30	52 04 03
4	4.2 +0.30	9.0 ±0.29	1.0 ±0.04	1.50	1.90	52 04 02
5	5.2 +0.30	10.0 ±0.29	1.0 ±0.04	1.80	2.20	52 05 02
6	6.4 +0.36	12.0 ±0.35	1.0 ±0.04	1.80	2.20	52 06 03
6	6.4 +0.36	10.0 ±0.29	0.8 ±0.03	1.40	1.70	52 06 04
8	8.4 +0.36	15.0 ±0.35	0.8 ±0.03	1.50	2.10	52 08 15
8	8.3 +0.36	17.0 ±0.35	1.2 ±0.04	2.25	2.75	52 08 02
9	9.5 +0.36	18.0 ±0.35	1.0 ±0.04	1.90	2.50	52 09 02
10	10.5 +0.43	18.0 ±0.35	1.0 ±0.04	2.10	2.70	52 10 02

all dimensions in mm / en millimètres / alle Maße in mm / in millimetri / en milímetros

Finishes / finition / Oberflächen / superficie / superficie

Type	Description / description / Beschreibung / descrizione / descripción	Cr6	 2)	Code ³⁾
Standard	Zinc-nickel clear, 8µm / Zinc-nickel 8µm clair / Zink-Nickel transparent / Zinco Nichel 8µm chiara / Niquelado claro 8 µm	✓	720 h	06
Optional	Unfinished, lubricated / Brut, huilé / Blank, mit Gleitmittel / Nessuna finitura e lubrificazione / Acabado natural y engrasado	✓	-	00
Optional	Zinc clear passivated 5 µm / Zingué passivé clair 5µm / Verzinkt, klar chromatiert 5µm / Zincato bianco 5µm / Zincado y pasivado claro 5µm	✓	72 h	32
Optional	Zinc clear passivated 8 µm / Zingué passivé clair 8 µm / Verzinkt, klar chromatiert 8 µm / Zincato bianco 8 µm / Zincado y pasivado claro 8 µm	✓	400 h	31

2) to red rust / à la rouille rouge / bis Rotrost / alla ruggine rossa / al óxido rojo

3) add code to the part number / ajoutez le code à la référence / fügen Sie den Code zur Artikel-Nummer hinzu / aggiungere il codice al numero di codice / añadir numeración a la referencia