

# FWZ & FWS

## FILLING WASHERS / ZINC PLATED & 316 (A4) STAINLESS STEEL

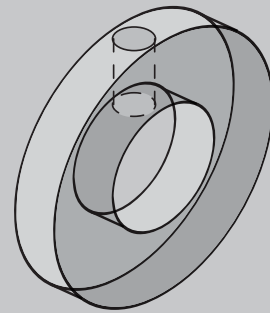
ZP

316

CERTIFICATION

TDS

### Technical Data Sheet



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# FWZ & FWS

Filling Washers,  
Zinc Plated & 316 (A4) Stainless Steel



**The Filling Washer enables filling of the annular gap between the base plate hole and the anchor. This has several benefits:**

- In multiple anchor base plates this allows shear load distribution between all anchors, which can lead to increased shear strength of the connection.
- Increased allowable shear capacity under seismic loading
- Larger base plate holes are possible

For mechanical anchors the original washer must be used as well.

For chemical anchors the filling washer replaces the original washer.

The Filling Washer is up to 6mm thick, hence the maximum fixture thickness for an anchor is reduced.

In AFOS anchor design software this is referred to as "fill hole gap" and "with gap filling".



## FWZ Washer Summary

- Zinc Plated (5µm min.)



Part Number	Suitable for Thread	External Diameter x Thickness	Internal Diameter	Reduction in Maximum Fixture Thickness		Indicative Price Per Fixing <sup>1)</sup>
				For Mechanical Anchors	For Chemical Anchors	
1021.0102650	M10 Zinc Plated	26 x 5mm	12mm	5mm	3mm	\$7.05
1021.0122850	M12 Zinc Plated	28 x 5mm	14mm	5mm	2.5mm	\$7.20
1021.0163450	M16 Zinc Plated	34 x 5mm	17mm	5mm	2mm	\$8.96
1021.0204150	M20 Zinc Plated	41 x 5mm	21mm	5mm	2mm	\$9.97
1021.0244860	M24 Zinc Plated	48 x 6mm	25mm	6mm	2mm	\$19.46

## FWS Washer Summary

- 316 (A4) Stainless Steel



Part Number	Suitable for Thread	External Diameter x Thickness	Internal Diameter	Reduction in Maximum Fixture Thickness		Indicative Price Per Fixing <sup>1)</sup>
				For Mechanical Anchors	For Chemical Anchors	
1020.0102650	M10 Gr 316 Stainless Steel	26 x 5mm	12mm	5mm	3mm	\$10.68
1020.0122850	M12 Gr 316 Stainless Steel	28 x 5mm	14mm	5mm	2.5mm	\$12.02
1020.0163450	M16 Gr 316 Stainless Steel	34 x 5mm	17mm	5mm	2mm	\$13.35
1020.0204150	M20 Gr 316 Stainless Steel	41 x 5mm	21mm	5mm	2mm	\$14.69
1020.0244860	M24 Gr 316 Stainless Steel	48 x 6mm	25mm	6mm	2mm	\$28.95

1) Based on a volume of 100+ washers, as of March 2026.



# FWZ & FWS

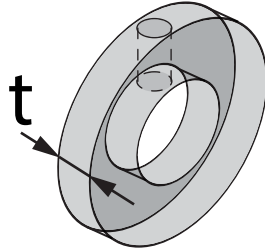
FILLING WASHERS / ZINC PLATED & 316 (A4) STAINLESS STEEL

## Installation Instructions: Filling of Annular Gap (Screw-Anchor Example)

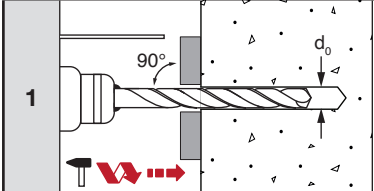
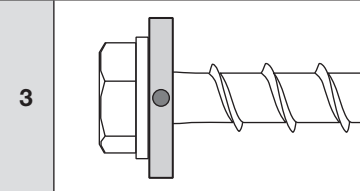
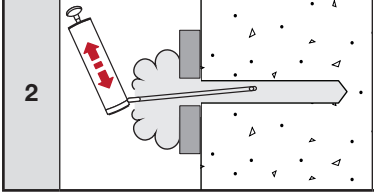
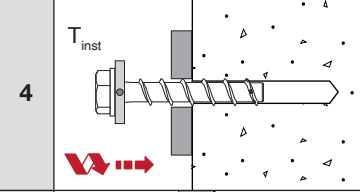
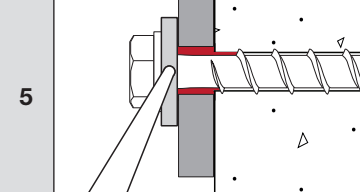
FWZ / FWS Filling washer and reducing adapter for filling the annular gap between concrete screw-anchor and fixture

**t = 5 - 6mm**

(thickness of filling washer)



Reducing adapter

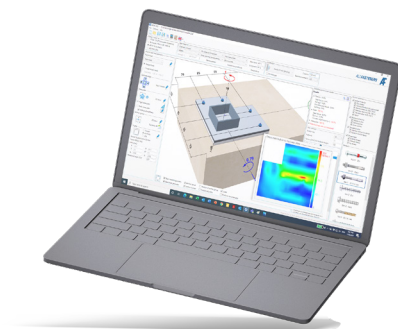
Drill hole preparation and cleaning		Install concrete screw-anchor with filling washer			
1		Drill hole perpendicular to concrete surface. Using a vacuum drill, continue with step 3.	3		Fit the filling washer to the concrete screw-anchor. The thickness of the filling washer must be taken into account with the $t_{fix}$ .
2		Blow out dust or alternatively vacuum clean down to the bottom of the hole.	4		Screw in e.g. with tangential impact screw driver or torque wrench.
			5		Fill the annular gap between anchor and the fixture with EF500R+ or VF22PRO+. Use enclosed reducing adapter. Observe information on processing of the adhesive. The annular gap is completely filled, when excess adhesive seeps out.



**AFOS**  
Anchor Design Software

DOWNLOAD

[allfasteners.com.au/afos](http://allfasteners.com.au/afos)



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