Farrat
Engineering Excellence

AWR Acoustic Washer

Steel-reinforced Neoprene Acoustic Washer

FARRAT ACOUSTIC WASHER RANGE:

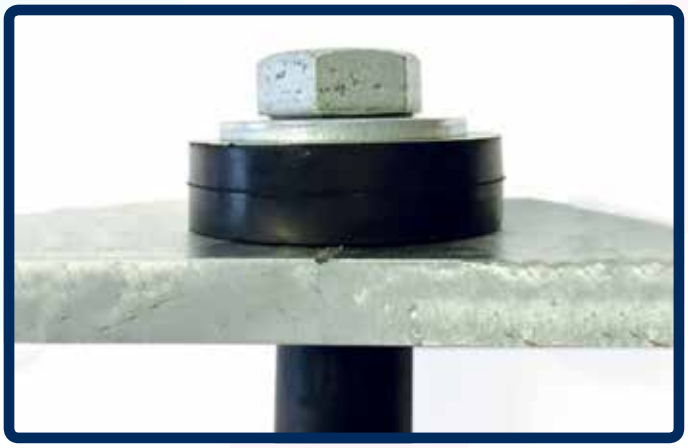
Lower Bush Dimension

AWR AWTH AWSTC

Increasing Acoustic Performance/Shear Load Capacity

SEE OVERLEAF FOR TYPICAL DETAILS

AWR Acoustic Washer site applications:



Why choose Farrat AWR Acoustic Washers?

Farrat AWR anti-vibration washers are used to isolate bolt-through connections by providing a resilient separation of the bolt and the isolated structure where there is no space available for an isolation sleeve.

Features

- Used in conjunction with acoustic / anti-vibration pads to provide a degree of vibration isolation across bolt-through fixings where they are required for stability and security
- They can be used in conjunction with other Farrat washers to increase acoustic performance by stacking together
- Manufactured for durability, performance and ease of on site installation by vulcanising zinc plated washers to a Chloroprene (Neoprene) acoustic washer
- Good oil, chemical and fire resistance
- Operating temperature range from -10 to +90°C
- Fire rating / building material class: B2

Applications

Farrat AWR can be used in any bolt-through connection that requires acoustic isolation such as:

- Steelwork isolation in building structures
- Machine / plant holding down bolts
- Push / pull acoustic connections in conjunction with AWTH Acoustic Washers
- Facade fixings.

Important Note:

If an acoustic washer is omitted then the anti-vibration pad will be bypassed by the fixing bolt and will therefore offer limited isolation as the vibration can be transmitted through the fixing bolt.

For more information on using AWR Acoustic Washers (including standard details), please see the following Farrat brochure:

- **Catalogue - Industrial**

Available to download at: **www.farrat.com**

AWR WASHER	BOLT COMPATIBILITY	DIMENSIONS A mm	B mm	D mm	FARRAT ORDER CODES SINGLE WASHER	BOX QTY	WASHER BOX	NORMAL APPLICATIONS TORQUE Nm	NO. OF TURNS -	STATIC DEFLECTION mm	MAXIMUM LOADING TORQUE Nm	NO. OF TURNS -	STATIC DEFLECTION mm
AWR08	M8	26	8.5	7	1AWR08	150	1AWR08-150	3	¼	0.4	4	½	0.6
AWR10	M10	30	10.5	10	1AWR10	100	1AWR10-100	5	⅓	0.6	8	⅔	0.9
AWR12	M12	40	13	11	1AWR12	50	1AWR12-050	13	⅓	0.6	20	⅔	0.9
AWR16	M16	50	17	16	1AWR16	36	1AWR16-036	20	½	1.0	30	¾	1.5
AWR20	M20	61	21	16	1AWR20	20	1AWR20-020	30	⅓	1.0	44	⅔	1.5
AWR24	M24	65	25	18	1AWR24	20	1AWR24-020	35	⅓	1. 0	54	½	1.5

Torque values and dimensions quoted refer to usage with dry, unplated metric bolt sizes with coarse threads.

Fig 2.1 **Dimensions - Plan View**

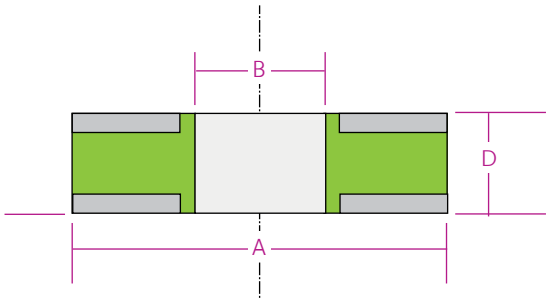


Fig 2.2 **Dimensions - Isometric View**

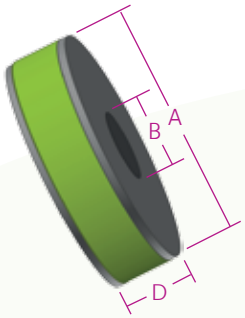


Fig 2.3 **AWR- Baseplate Detail (Steel to Steel)**

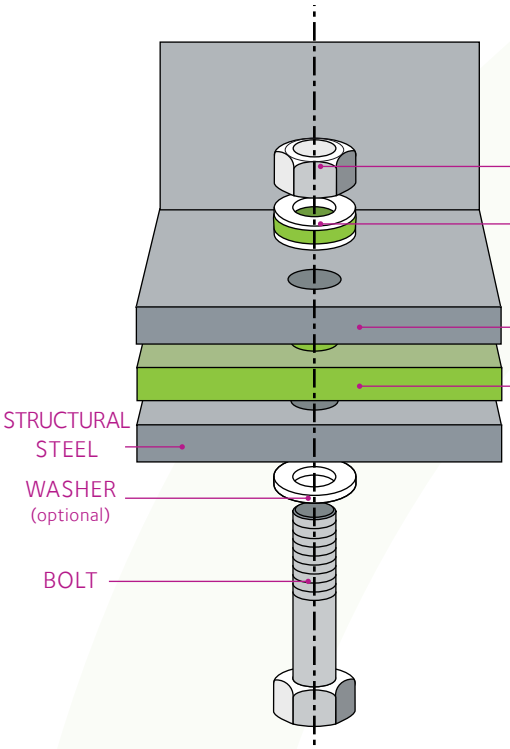
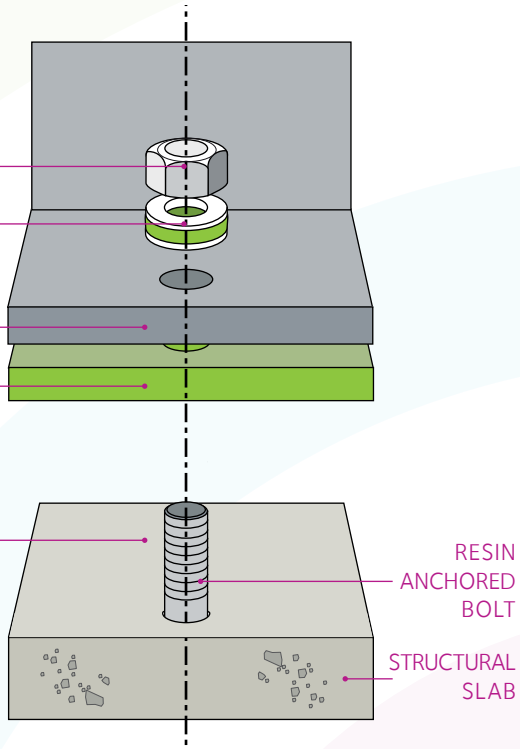


Fig 2.4 **AWR - Baseplate Detail (Steel to Concrete)**



Important Note: Where an acoustic washer is used that does not have an isolating bush (sleeve) to go around the bolt, the vibration isolation performance of the connection will be compromised. See Farrat Product Datasheets:

- AVW-AWTH-16a & AVW-AWSTC-16a for washers with incorporated bushes
- AVW-ABUM-16a for separate acoustic bushes.

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