

PRODUCT CATALOGUE

AZTEC-INTERNATIONAL.EU







Table of Contents

About us	
Master Coat [®]	
Carbon Steel fasteners	9
Stainless Steel fasteners	
Bimetal fasteners	17
Master Tools	19
Saddle Washers	21
Rivets	24
Rubber Plug	26
Master Seal® - bonded washer	28
Master Flash®	30





About us

Aztec International S.A. is recognised as a market leader in the field of industrial powder painting in Europe. It is a producer of Saddle Washers, as well as an exclusive distributor of products manufactured within Aztec Group, like Master Seal Bonded Washers and Master Flash high quality Flashings.

The company's product portfolio also contains anchors, rivets and screws. Our screws programme includes carbon steel zinc plated self-drilling and self-tapping screws, stainless steel screws and bimetal self-drilling screws for various applications.

Most of these products we offer with optional powder painting. Whether a façade, roof, or ceiling, Aztec International S.A. can match any fixing to the colour of the given surface in a nearly identical shade, including levels of gloss and paint structure.

Our own unique and continuously developed technology called Master Coat®, as well as by Aztec designed and manufactured high capacity painting lines, allow us to provide the highest quality of powder painting applications on most fastener types and various protective surfaces. Different types of machines allow us to handle even the most challenging tasks, whether it is painting of big volumes of standard fasteners, TORX® recess special screws, long composite panel screws or Saddle Washers.

Aztec's production capacity, R&D programme based on our own know-how, together with precise internal quality control, assures a high quality level of our products and services.

Our customer service, guaranteed products' properties, short delivery times and the possibility of personalised products all contribute to Aztec's high standards.

Aztec International S.A. is a partner of Aztec Washer Co Inc., with headquarters in California, USA. The company was founded in 1968 by Henry DeGraan and since then Aztec Washer has been continuously setting the highest standards in the manufacture of Bonded Washers and EPDM/Silicone Flashings. Aztec Washer's market leading position and over 50 years of trading experience provide strong support to Aztec International's business.



Powder coating is a type of dry coating, which is applied as free-flowing dry powder. The coating adheres to the surfaces electrostatically and is then cured under heat to allow the powder to harden and create a compact surface protective layer. In comparison to conventional wet painting, powder coating allows to cover the element more thoroughly, leaving no unpainted spots.





Why powder coating?

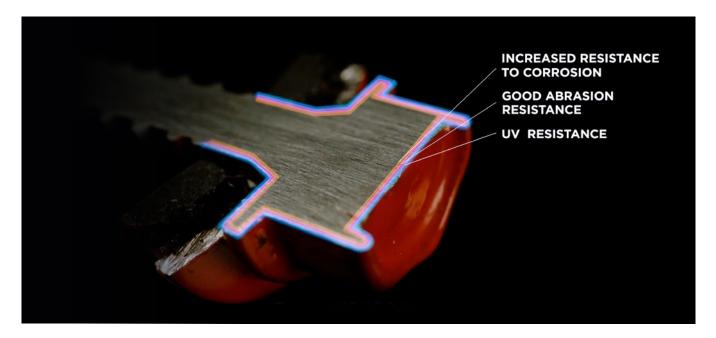
There are several advantages of powder coating over conventional solvent-based coatings:

- Apart from the decorative function, powder coating remarkably improves the corrosion resistance of a fixing, especially on carbon steel zinc plated surfaces
- Powder coating can produce much thicker layer than conventional wet painting, without running or sagging
- After hardening, the coating meets the requirements of colour fastness, gloss stability and UV resistance, as well as abrasion and impact resistance
- The hardened coating stays flexible and can even absorb significant expansion of the supporting surface, as well as its bending or twisting
- Powder coated surfaces generally have fewer appearance differences between horizontally coated surfaces and vertically coated surfaces, than surfaces painted with solvent-based paints
- Powder coating overspray can be recycled and thus it is possible to achieve nearly 100% use of the coating, which is much more efficient and more eco-friendly than traditional wet painting

What can be powder coated?

Powder paint can be applied on different types of surfaces and materials with or without pre-treatment, such as as carbon steel, stainless steel, aluminium and copper alloys. Quality control procedures during the painting process provide stable quality and thickness of paint layer, matching the needs of intended product application.

We are capable of coating various types of fasteners including: hexagonal, oval and low profile head screws, with different types of recess such as Phillips Truss, Pozidriv, Cross Head, Robertson drive, TORX®, TORX® ttap® and other six-lobe drives, rivets, nails, bolts, washers, saddle washers and many more.







Own machines and services

Aztec International uses powder coating lines of its own design and construction that give flexibility in providing powder coating service even on most demanding projects.

Aztec offers a personalized and complex service for all customers, including but not limited to:

- · Zinc plating and other anti-corrosion surface treatments applied by our trusted partners
- Internal design and printing of labels and logotypes for customers
- Special pretreatments to improve powder paint adhesion
- · Powder coating of both small and large quantity orders
- Packing and labelling of the customer's products
- · Packaging solutions and design
- · Inhouse salt spray chamber tests
- · Promo materials and technical back-up on powder coating
- Support in finding the right suppliers or producers of your own fasteners

Aztec provides wide range of unit carton boxes, plastic boxes, blisters and bags, what allows us to find the right solution for every market. Our experience gathered by years of cooperation with many global companies, as well as small players, taught us how to support every type of customer, no matter whether you are well established in the business or just starting your journey with powder coated products.

Structures and colours

Master Coat® powder coating enables a perfect match between the fastener and the surface, including different levels of gloss, metallic effect and special paint structures. Aztec provides powder coating services in a wide range of colour standards such RAL, RR, NCS and British Standard, as well as customized paints which are mixed on request to match certain part of roof or façade. Our internal laboratory can match the finish and colour of the coating to materials provided by a customer (a piece of the roofing or façade sheet).



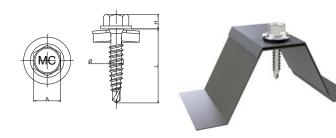


Aztec International offers different types of self-drilling and self-tapping carbon steel screws. The screws are made of 1022 low carbon steel and are case hardened by carburisation process. We offer fasteners with different types of head (e.g. hexagonal, truss, oval or pan head) with different types of recess like Phillips, T20, T25 and TORX® ttap®.

Carbon steel is a popular material for fasteners due to its good tensile strength and ability to bear loads. It can be heat treated easily modifying its mechanical properties. It is easy to machine and can meet the tight tolerances required in fastener construction. All of our fasteners are protected against corrosion. Available coatings are zinc or zinc-nickel.



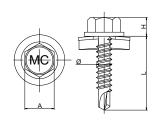




Hexagonal head self drilling stitcher screw with reduced drill point

GA2 - 4.8 x L

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	20	8	5	1+1	14



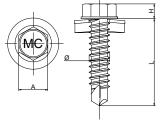


Hexagonal head self drilling screw with no. 3 drill point

GA3 - 4.8 x L

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	19	8	5	1.5+1.5	14

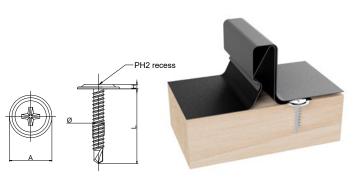
Hexagonal head self drilling screw with no. 3 drill point





GA5 - 5.5 x L

1	Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
	5.5	25	8	5	< 5	16
	5.5	75	8	5	< 5	16
				*		



Wafer head phillips self drilling screw

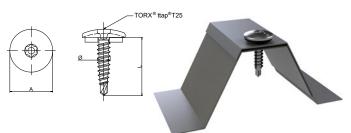
FH-GA3 - 4.2 x L

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.2	16	11	2.3	1.5+1.5	-
4.2	25	11	2.3	1.5+1.5	-





Oval head TORX® ttap® self drilling stitcher screw with reduced drill point



GA2 - 4.8 x L OVAL

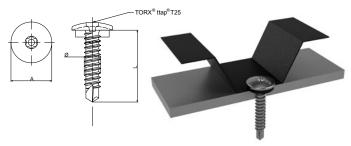
Ø [mm]	L [mm]	A [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	20	14	1+1	10

TORX® ttap®T25

Oval head TORX® ttap® self drilling screw with no. 3 drill point

GA3 - 4.8 x L OVAL

Ø [mm]	L [mm]	A [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	19	14	1.5+1.5	10



Oval head TORX $^{\! 8}$ ttap $^{\! 8}$ self drilling screw with no. 3 drill point

GA5 - 5.5 x L OVAL

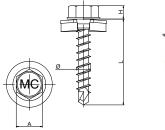
Ø [mm]	L [mm]	A [mm]	Drilling capacity [mm]	Washer Ø [mm]
5.5	25	14	< 5	10





Hexagonal head self drilling farmer screw with no. 2 reduced drill point

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	28	8	5	1.5	14
4.8	35	8	5	1.5	14
4.8	60	8	5	1.5	14
4.8	80	8	5	1.5	14

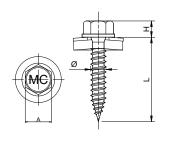




Hexagonal head self tapping screw with sharp point

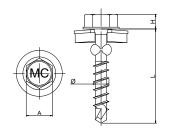
SP - 4.8 x L

FS - 4.8 x L





Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Effective clamping thicknesss [mm]	Washer Ø [mm]
4.8	25	8	5	1	-	14
4.8	38	8	5	1	-	14
4.8	50	8	5	1	15	14
4.8	65	8	5	1	20	14
4.8	80	8	5	1	25	14
4.8	105	8	5	1	45	14
		-				





Hexagonal head self drilling screw with wings

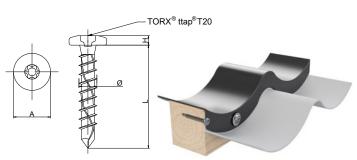
FS - 4.8 x L WING

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	35	8	5	1.5	16





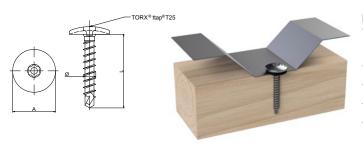
STR Pan head TORX® ttap® self drilling screw



FS - 5.0 x L PAN

Ø [mm	n] L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
5.0	20	9	2.5	1.5	-
5.0	25	9	2.5	1.5	-
5.0	35	9	2.5	1.5	-
5.0	65	9	2.5	1.5	-
5.0	80	9	2.5	1.5	-

Oval head TORX® ttap® self drilling screw with no. 2 reduced drill point

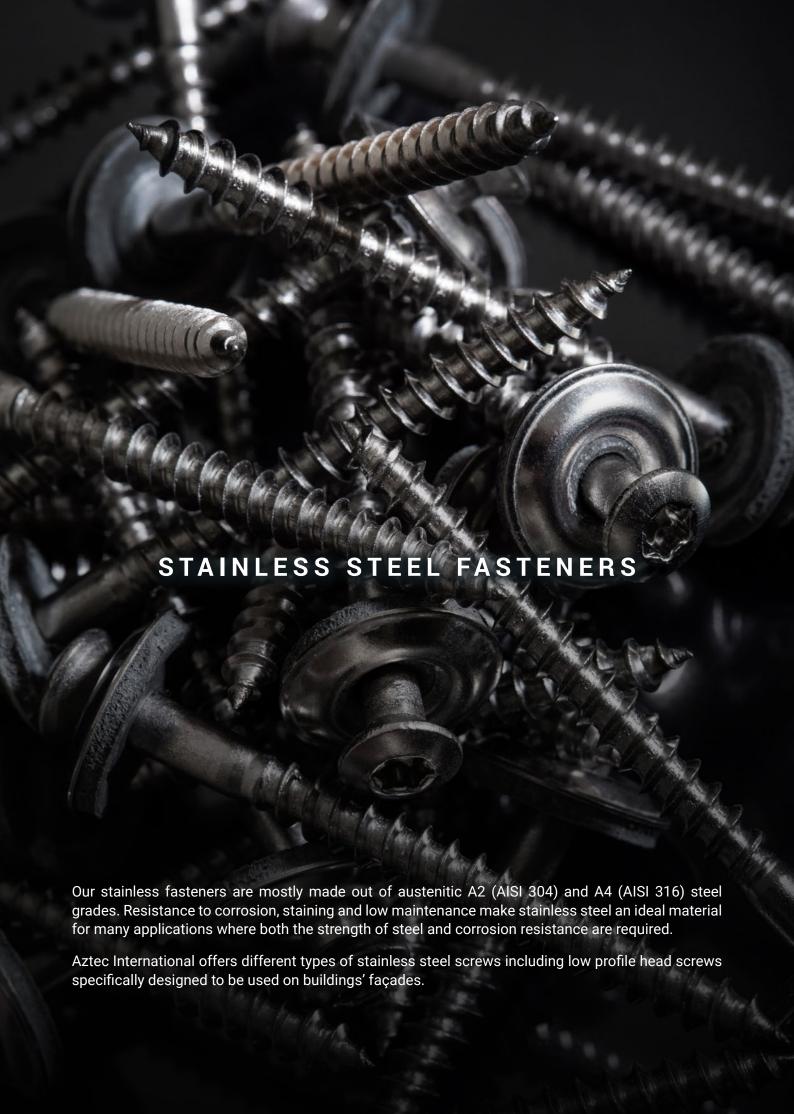


FS - 4.8 x L OVAL

Ø [mm]	L [mm]	A [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	28	14	1.5	10
4.8	35	14	1.5	10
4.8	60	14	1.5	10



All screws can be ordered with or without powder coating
Don't see the product you are looking for?
Do you need a screw with a different type of head or washer?
Please contact our Sales Department







SCREWS FOR FIXING METAL TO METAL

MG



Hexagonal head self drilling stitcher screw with reduced drill point

SS2 - 4.8 x L (SS410)

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	20	8	4.5	1.5	14

SCREWS FOR FIXING METAL TO TIMBER

A O

Hexagonal head self drilling farmer screw with reduced drill point

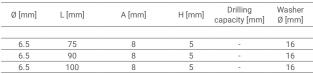
FS-SS - 4.8 x L (SS410)

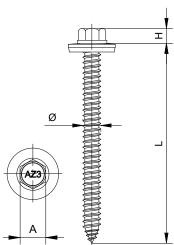
Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	35	8	5	1.5	14

SCREWS FOR TIMBER

Hexagonal head self tapping screw

STS TYPE A 6.5 x L (A2 / AISI 304)



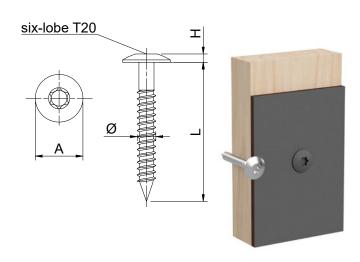








Façade screw



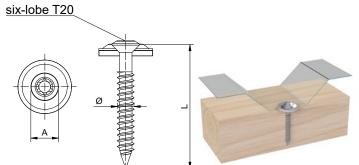
Façade screw 4.8 x L (A2 / AISI 304)

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Panel range [mm]	Washer Ø [mm]
4.8	25	12	2.6	-	6	-
4.8	32	12	2.6	-	8	-
4.8	38	12	2.6	-	9	-
4.8	50	12	2.6	-	20	-
4.8	60	12	2.6	-	30	-
4.8	70	12	2.6	-	40	-

Façade screw 5.5 x L (A4 / AISI 316)

Ø [mm]	L [mm]	A [m m]	H [mm]	Drilling capacity [mm]	Panel range [mm]	Washer Ø [mm]
5.5	25	12	2.6	-	8	-
5.5	35	12	2.6	-	12	-

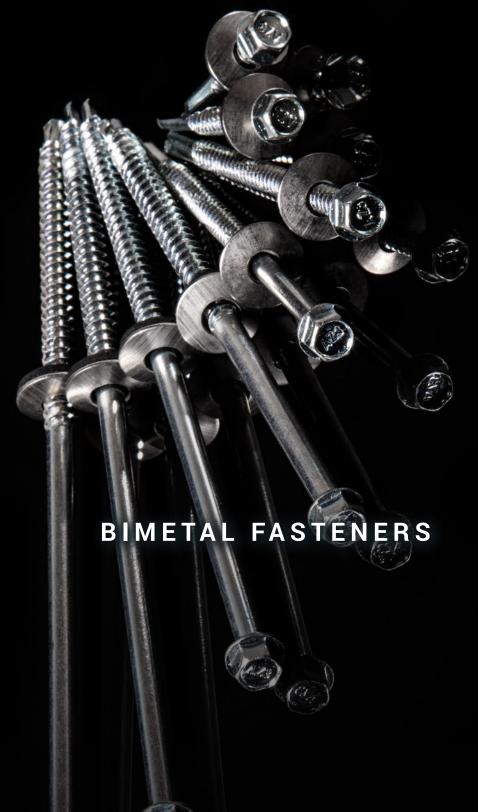
Spengler oval head screw



Spengler 4.5 x L (A2 / AISI 304)

Ø [mm]	L [mm]	A [mm]	capacity [mm]	clamping thicknesss [mm]	Washer Ø [mm]	
4.5	25	8	-	6	15	
4.5	35	8	-	8	15	
4.5	45	8	-	8	15/20	
4.5	55	8	-	12	15/20	
4.5	65	8	-	18	15	
4.5	80	8	-	18	15	
4.5	100	8	-	18	15	

Effective



Our bimetal fasteners are comprised of two types of steel. The drill-point and the first few tapping threads of the screw are made out of either 1022 or 1035 carbon steel that is heat treated to guarantee exquisite drilling performance. The screw body including head section is formed from A2 stainless steel which is characterized by its excellent corrosion resistance.

The two metals are welded together and as a result they form a screw that has best of both worlds – great drilling capabilities and exceptional corrosion resistance. The screws are zinc-plated to protect carbon steel point from corrosion, making the screw visually undistinguishable from a standard zinc-plated carbon steel screw.





SCREWS FOR FIXING METAL TO TIMBER



Hexagonal head self drilling farmer screw with no.2 reduced drill point

FS-BI - 4.8 x L

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	35	8	5	1+1	14

SCREWS FOR FIXING METAL TO METAL

Hexagonal head self drilling stitcher screw



with reduced drill point

BI2	2 -	4.8	хL					

Ø [mm]	L [mm]	A [mm]	H [mm]	Drilling capacity [mm]	Washer Ø [mm]
4.8	20	8	5	1+1	14



All screws can be ordered with or without powder coating Don't see the product you are looking for? Do you need a screw with a different type of head or washer? **Please contact our Sales Department**



Master Tools is the family of driver bits and sockets used in fastener installation.

Spring clip design of the hex socket driver allows for a secure hold of the screw without a magnet attracting metal shavings that could damage the screw head's surface or its protective coating.

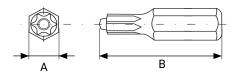
A TORX® ttap® bit's button tip matches the specially designed recess in the screw head providing improved stability during driving, which enables easy one-handed operations and does not require a magnetic holder.

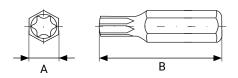
Regular bits without a special tip are also available for driving façade screws offered by Aztec International and also for any Torx fastener with and without the TORX® ttap® special notch.



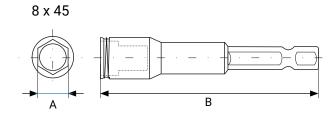


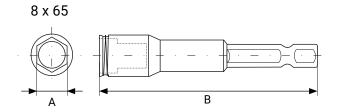
Master Tools





8 x 25





TORX® TTAP® BIT

Time	Dime	Dimension		
Туре	Lenght A	Lenght B		
BIT T25	6.3	25		
BIT T20	6.3	25		

SIX LOBE T20 BIT for Aztec spengler and façade screws

T	Dime	Dimension		
Туре	Lenght A	Lenght B		
BIT T20	6.3	25		

SPRING CLIP SOCKET

Torre	Dimension			
Туре	Lenght A	Lenght B		
8 mm Spring Clip Hex Head Screw Socket	8	25		
8 mm Spring Clip Hex Head Screw Socket	8	45		
8 mm Spring Clip Hex Head Screw Socket	8	65		







Saddle Washers

SADDLE WASHERS PROVIDE A LOT OF BENEFITS:

- Greater contact area offers an improved resistance against forces caused by negative wind load
- Larger sealing area is less susceptible to failure and leaking
- Vulcanized EPDM rubber lasts longer and has no shape memory in comparison to rubber foam offered by competition
- · A significant vibration damping resulting i.e. in noise reduction is also noticed
- EPDM does not react chemically with translucent sheets (PCV, PC, PMMA)



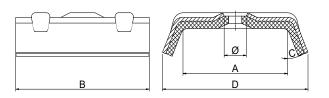






Trapezoidal Saddle Washer

Trapezoidal saddle washers are usually used for crown fixing on roofs and sidings made of corrugated metal sheets.



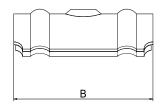


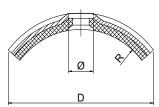
Trapezoidal sheets Saddle Washer

Туре	A [mm]	B [mm]	C [°]	D [mm]	Ø [mm]
SW 23-30	22.5-23.5	38-39	27-33	36-37	6.5-7.5
SW 25-27	23.5-24.5	38-39	27-33	37-38	6.5-7.5
SW 26-15	23.5-24.5	38-39	11-19	34-35	6.5-7.5
SW 26-27	25.5-26.5	38-39	23-31	38-39	6.5-7.5
SW 26-49	26-27	38-39	46-54	41-43	6.5-7.5
SW 30-23	30-31	38-39	20-26	42-43	6.5-7.5
SW 32-25	26.5-27.5	38-39	23-31	40-41	6.5-7.5
SW 34-23	33.5-34.5	38-39	20-28	46-47	6.5-7.5
SW 41-32	40.5-41.5	38-39	24-39	56-57	6.5-7.5
SW 55-32	51-52	41-42	38-36	68-69	6.5-7.5

Sinusoidal Saddle Washer

Sinusoidal saddle washers are usually used for crown fixing on roofs and sidings made of corrugated polycarbonate, PCV or acrylic sheets.





Sinusoidal sheets Saddle Washer

Туре	B [mm]	D [mm]	Ø [mm]	R [mm]
SW 25	38 - 39	37 - 39	6.5 - 7.5	24 - 26



Saddle washer size should fit to the profile of the roof covering. You can contact our Sales Department for help with matching the correct saddle washer size for your metal sheet.



After a shaft is inserted into a pre-drilled hole the rivet mandrel is pulled back by the tool and forms the closing head. Clamping effectiveness depends on the diameter and the length of the rivet shaft.





Rivets

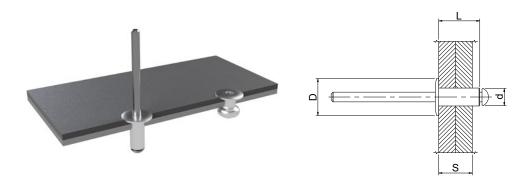
AZTEC INTERNATIONAL OFFERS POWDER COATING ON RIVETS AVAILABLE IN TWO SYSTEMS:

• The first system is realized by coating pre-assembled rivets which results in creating a powder coating layer on the rivet's flange and mandrel



The second method consists of powder coating only the rivet's flange on the rivet's body and then
assembling it with a mandrel on our rivet assembling lines. This option yields rivets where only
the flange is painted





	Body diameter min d [mm]	Body diameter max d [mm]	Lenght L [mm]	Flange diameter D [mm]	Grip range S [mm]
BR-0\AL\SS\4.0X10.0	3.85	4.08	10	8.4	4 - 6.5
BR-0\AL\SS\4.0X12.0	3.85	4.08	12	8.4	6 - 8.5
BR-0\AL\SS\5.0X14X14	4.65	4.88	14	14	8 - 10
BR-0\AL\SS\5.0X18X14	4.65	4.88	18	14	10 - 14
BR-0\AL\ST\4.8X12	4.65	4.88	12	10	6 - 8



All rivets can be ordered with or without powder coating
Don't see the product you are looking for?
Do you need a different type, size or matarial?
Please contact our Sales Department



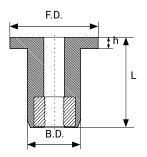
The Rubber Plug system consists of a rubber nut insert and stainless steel bolt, that is assembled with a stainless steel Master Seal® washer. Excellent for fixing various materials. Rubber Plug cushions and seals similar and dissimilar materials, insulating against electrical and static surges.

It also dampens vibrations and vastly improves corrosion resistance at the place of fixing. Removable and reinsertable, its wide range covers all standard screw dimensions.





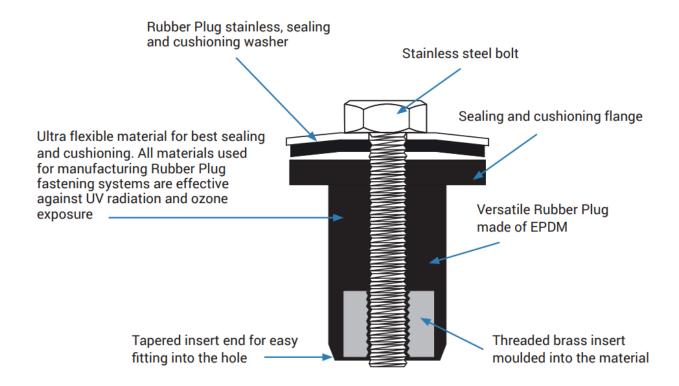
Rubber Plug



Туре	S	F	S
Body diameter B.D. [mm]	Ġ	9.6	16
Overall body length L [mm]	17	21.5	21
Outside flange diameter F.D. [mm]	14	14	25
Flange thickness h [mm]	1	1	2.8

Available in other lengths. For further information, please contact our Sales Department.





MASTER SEAL® - BONDED WASHER Aztec's unique vulcanizing technology bonds together strong backing materials and flexible facing materials. Aztec offers a wide range of washers with black conductive EPDM or grey non-conductive EPDM. Washer's dimensions, EPDM compound, as well as its hardness, can be adjusted to meet requirements of non-standard projects.





Master Seal[®] - Bonded Washer

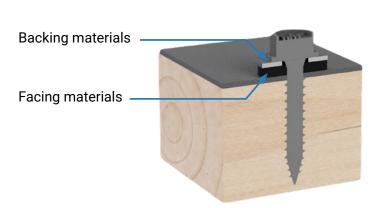
Facing materials:

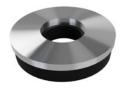
EPDM is an excellent ozone and weathering resistant elastomer. It is highly effective when applications require extreme temperature resistance. EPDM is appropriate for construction application where primary environmental issues are ozone, UV radiation and high temperatures. EPDM is available in black or grey and in various thicknesses.

Silicone elastomer is appropriate for applications with requirements for high temperature or chemical resistance.

Backing materials:

- · Galvanized steel
- Aluminium
- · Stainless steel





Bonded washer



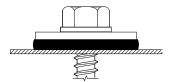
M washer



Rubber washer

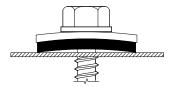


Cone washer



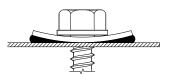
CORRECT INSTALLATION

After the screw is installed, the washer should adhere evenly to the surface to ensure tight sealing on the surface and around the screw



INCORRECT INSTALLATION Screw under-tightened

If the screw is under-tightened, there will be no tight seal between the washer and the surface



INCORRECT INSTALLATION Screw over-tightened

Over-tightening the screw may damage the sealing material and lead to leakage



Master Flash® products guarantee watertight sealing around external pipes. Made of EPDM material, all flashings are high temperature and UV resistant with a high tensile strength. Flashings made of silicone can withstand even temperatures above 250 °C. Engineered for profiled roofing materials, Master Flash® is easy to customise on site to accommodate a wide range of pipe and vent diameters.



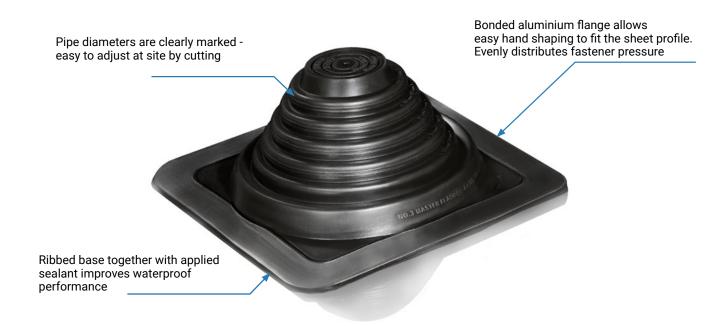


Master Flash[®]

Our broad Master Flash® product range also includes sealing solutions for other roofing types than corrugated metal sheets, such as ceramic, cement or slate tiles, membranes and plastic.

AZTEC OFFERS FLASHINGS:

- made of EPDM (Ethylene Propylene Diene Monomer) or Silicone
- · for industrial and residential buildings
- · available with square and round bases
- for solar panel applications
- for heating, ventilation and air-conditioning industry
- for square tubing
- in a wide range of EPDM colours (on special request)
- with 20 years manufacturer warranty (or 35 years on special request)



Master Flash®		EPDM 500	SILICONE	
ADVANCED OZONE RESISTANCE		70 h @ 500 pphm	70 h @ 500 pphm	
HIGH TEMPERATURE RESISTAL	NCE			
Tested to:	intermittent	+135 °C (+275 °F)	+260 °C (+500 °F)	
	continuous	+100 °C (+212 °F)	+225 °C (+437 °F)	
LOW TEMPERATURE RESISTANCE tested to:		-55 °C (-67 °F)	-74 °C (-100 °F)	
TENSILE SET maximum		10 MPa (1450 psi)	5 MPa (700 psi)	
COMPRESSION SET maximum		25%	50%	

Master Flash[®] products may also be ordered as a set, including sealant and fasteners.



Aztec International S.A. ul. Sowia 13 C 62-080 Tarnowo Podgórne, Poland tel: (+48) 61 867 60 84, fax: (+48) 61 867 34 44 e-mail: sales@aztec-international.eu www.aztec-international.eu

Other European affiliate:

Aztec (UK) Ltd.Unit 55, Enterprise Trading Estate Hurst Lane, Pedmore Road, Brierley Hill West Midlands DY5 1TX, United Kingdom tel: (+44) 1384 573444 e-mail: sales@aztecmaster-flash.co.uk www.aztecmaster-flash.co.uk

In cooperation with:

Aztec Washer Company, Inc. 13821 Danielson Street Poway, CA 92064 1-800-WASHER 5 (Outside Calif.), USA tel: 1-858-513-4305, fax: 1-858-513-4305 www.aztecwasher.com

Aztec Nordic Ltd Oy Ab

Gropintie 6 Fl-10600 Tammisaari **FINLAND**

Tel. +358 40 849 7781