



Hi-MOD Architectural Wire and Rod Tension Systems



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- IVI Made in UK **Hi-MOD Stainless Steel** Architectural Adjuster Forks Specification Sheet AAF001



Available with RIGHT or LEFT hand threads - Suffix R or L. Locking Nuts & Double headed clevis pins and bar couplers also available see subsequent specification sheets.

Product Code	Thread unf	Р	т	С	F	ADJ	O/D	L
AAF1/4 AAF5/16 AAF3/8 AAF7/16 AAF1/2 AAF5/8 AAF5/8 AAF3/4 AAF7/8 AAF1 AAF11/8 AAF11/4 AAF13/8	1/4" 5/16" 3/8" 7/16" 1/2" 5/8" 3/4" 7/8" 1" 11/8" 11/4" 13/8"	6.4mm 8mm 9.5mm 11mm 13mm 16mm 19mm 22.2mm 25mm 28.4mm 32mm 35mm	7mm 8mm 10mm 11mm 13mm 16mm 19mm 22mm 25mm 28.4mm 32mm 36mm	15mm 16mm 20mm 23mm 30mm 32mm 40mm 45mm 52mm 60mm 64mm 70mm	8mm 10mm 12mm 15mm 18mm 20mm 24mm 26mm 32mm 35mm 38mm 44mm	24mm 32mm 40mm 44mm 64mm 64mm 72mm 80mm 90mm 100mm 110mm 120mm	16mm 19mm 22.2mm 28.6mm 31.7mm 38.1mm 50.8mm 57.1mm 63.5mm 69.8mm 79.3mm 88.9mm	55mm 70mm 88mm 98mm 120mm 142mm 165mm 185mm 208mm 240mm 263mm 282mm

Revision Number 2000.2





Architectural Lock Nuts and Double Headed Clevis Pins

Specification Sheet AAF002

NUT	1	Product Code	Thread unf	A/F	O/D	W
		ALN1/4	1/4"	8mm	9.5mm	5mm
		ALN5/16	5/16"	10mm	12.7mm	5mm
		ALN3/8	3/8"	12mm	14.3mm	7mm
		ALN7/16	7/16"	16mm	19mm	8mm
\\/		ALN1/2	1/2"	19mm	22mm	10mm
		ALN5/8	5/8"	25mm	28mm	11mm
		ALN3/4	3/4"	27mm	31.7mm	12mm
•		ALN7/8	7/8"	32mm	34.9mm	13mm
л <i>т</i>		ALN1	1"	35mm	41.2mm	14mm
		ALN11/8	1 1/8"	37mm	44.4mm	18mm
		ALN11/4	1 1/4"	40mm	50.8mm	18mm
		ALN13/8	1 3/8"	47mm	57.1mm	18mm
67		ACP		APF	H SCS	SK
	Г-					

Fork Code	Pin Code	L	D	Head Code	Screw Code	Key A/F
AAF1/4	ACP06	16.0mm	6.3mm	APH06	SCSKM3X6	2mm
AAF5/16	ACP08	19.0mm	8mm	APH08	SCSKM3X6	2mm
AAF3/8	ACP10	22.2mm	9.5mm	APH10	SCSKM3X6	2.5mm
AAF7/16	ACP11	28.6mm	11mm	APH11	SCSKM3X6	2.5mm
AAF1/2	ACP12	32.0mm	12.5mm	APH12	SCSKM5X12	3mm
AAF/5/8	ACP16	38mm	16mm	APH16	SCSKM5X12	4mm
AAF3/4	ACP19	51.0mm	19mm	APH19	SCSKM6X12	5mm
AAF7/8	ACP22	57.4mm	22mm	APH22	SCSKM6X12	5mm
AAF1	ACP25	64.0mm	25mm	APH25	SCSKM6X12	5mm
AAF11/8	ACP28	70.0mm	28mm	APH28	SCSKM6X12	5mm
AAF11/4	ACP32	79.5mm	32mm	APH32	SCSKM8X16	6mm
AAF13/8	ACP35	89.2mm	35mm	APH35	SCSKM8X16	6mm

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Hi-MOD Stainless Steel Architectural Fixed Forks

Specification Sheet AAF003



Product Code	Thread unf	Р	т	С	F	O/D	L
AFF1/4 AFF5/16 AFF3/8 AFF7/16 AFF1/2 AFF5/8 AFF5/8 AFF3/4 AFF7/8 AFF1 AFF11/8	1/4" 5/16" 3/8" 7/16" 1/2" 5/8" 3/4" 7/8" 1" 11/8" 11/8"	6.4mm 8mm 9.5mm 11mm 13mm 16mm 19mm 22.2mm 25mm 28mm	7mm 8mm 10mm 11mm 13mm 16mm 19mm 22mm 25mm 28.6mm	15mm 16mm 20mm 23mm 30mm 32mm 40mm 45mm 52mm 60mm	8mm 10mm 12mm 15mm 18mm 20mm 24mm 26mm 32mm 35mm	16mm 19mm 22.2mm 28.6mm 31.7mm 38.1mm 50.8mm 57.1mm 63.5mm 69.8mm	33mm 38mm 47mm 52mm 74mm 78mm 99mm 104mm 128mm 138mm
AFF11/4 AFF13/8	13/8"	32mm 35mm	32mm 35mm	70mm	36mm 44mm	88.9mm	172mm



Architectural Fixed Forks





Hi-MOD Stainless Steel Architectural Tie Bars & Couplers

Specification Sheet AAF004

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All tie bars are manufactured from stainless steel EN10088 1.4404/1. Solid bars are manufacturd to customer lengths up to a maximum of 3 metres. Bar systems with lengths in excess of 3 metres are made up of several bars and bar couplers (detailed below).

Bar diameters from 1/4" to 1 3/8". Larger diameters available on request.
Metric or Imperial threads.



Product Code	Thread UNF	OD	L	Product Code	Thread Metric	OD	L
ABC1/4 ABC5/16 ABC3/8 ABC7/16 ABC1/2 ABC5/8 ABC3/4 ABC3/4 ABC7/8 ABC1 ABC11/8 ABC11/4 ABC13/8	1/4" 5/16" 3/8" 7/16" 1/2" 5/8" 3/4" 7/8" 1" 11/8" 11/4" 13/8"	10mm 12mm 16mm 19mm 22mm 28mm 32mm 35mm 41mm 44mm 50mm	25mm 30mm 35mm 40mm 45mm 55mm 65mm 75mm 85mm 95mm 105mm 120mm	ABCM6 ABCM8 ABCM10 ABCM11 ABCM12 ABCM16 ABCM20 ABCM22 ABCM24 ABCM28 ABCM32 ABCM35	M6 M8 M10 M11 M12 M16 M20 M22 M22 M24 M28 M32 M35	10mm 12mm 16mm 19mm 22mm 28mm 32mm 35mm 41mm 44mm 50mm	25mm 30mm 35mm 40mm 45mm 55mm 65mm 75mm 85mm 95mm 105mm 120mm

Revision Number 2000.1



HI-MOD Architectural Bar Systems

Adjuster forks may be used for wire or rod systems.

The breaking loads of the forks will be in excess of the wire breaking loads when fitted in a swage termination with the normal screw thread as used for Petersen Stainless Rigging fittings.

When rods are used, it is necessary to consider the breaking loads and yield points (Rp 0.2) of the rods and of the fittings.

Austenitic stainless steel is quite soft in the annealed condition from which end fittings are manufactured. The rods themselves, although made of the same material, may be a great deal tougher due to work hardening when the rods are drawn at the mill. The yield point may be three times that of the end fittings.

If a structure is designed using such rods it will be necessary to consider the yield point of the end fittings.

There are three possibilities.

- 1) The end fittings can be increased in size to match the yield point to that of the rod.
- 2) The end fittings can be manufactured from 17/4PH grade steel which has a yield point higher than austenitic stainless. The stainless properties of 17/4PH are not as good as marine grade austenitic stainless steel.
- 3) A duplex grade can be used for the fittings. 2205 grade duplex can have a yield point equivalent to that of cold drawn bars.

Petersen Stainless Rigging Limited can give details of the cross sectional areas of the fittings and the rods and are able to produce the end fittings according to either of the three options.

Disclaimer;

Petersen Stainless Rigging does not offer an engineering service for the specification of structures. An engineer should always be employed to approve your calculations. Alternatively one of the specialist companies who use our products in the construction industry can undertake a design and fit contract.

In these notes we are outlining the products that we are able to offer the engineer or contractor in formulating a solution to a construction problem. Petersen Stainless Rigging Limited does not itself offer a design or contracting service.

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