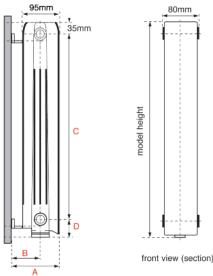
faral alliance 95 Technical Specifications



Α.								
	430	580	680	780	880			
	FA95-430	FA95-580	FA95-680	FA95-780	FA95-880			
	80	80	80	80	80			
Total number of sections x 80mm +20mm								
	95	95	95	95	95			
Ref A	115	115	115	115	115			
Ref B	67.5	67.5	67.5	67.5	67.5			
Ref C	350	500	600	700	800			
Ref D	45	45	45	45	45			
	1/2" Standard or 3/4" Optional							
	.44	.35	.41	.45	.6			
	1.2	1.56	1.74	2.02	2.11			
	10 bar	10 bar	10 bar	10 bar	10 bar			
	RAL9010	RAL9010	RAL9010	RAL9010	RAL9010			
	Ref B Ref C	FA95-430 80 Total 95 Ref A 115 Ref B 67.5 Ref C 350 Ref D 45 1 .44 1.2 10 bar	FA95-430 FA95-580 80 80 Total number of section 95 95 Ref A 115 115 Ref B 67.5 67.5 Ref C 350 500 Ref D 45 45 1/2" Standard of the section of the se	FA95-430 FA95-580 FA95-680 80 80 80 Total number of sections x 80mm + 1 95 95 95 Ref A 115 115 115 Ref B 67.5 67.5 67.5 Ref C 350 500 600 Ref D 45 45 45 1/2" Standard or 3/4" Options .44 .35 .41 1.2 1.56 1.74 10 bar 10 bar 10 bar	FA95-430 FA95-580 FA95-680 FA95-780 80 80 80 80 Total number of sections x 80mm +20mm 95 95 95 95 Ref A 115 115 115 115 Ref B 67.5 67.5 67.5 67.5 Ref C 350 500 600 700 Ref D 45 45 45 45 1/2" Standard or 3/4" Optional .41 .45 1.2 1.56 1.74 2.02 10 bar 10 bar 10 bar 10 bar			

Tables for calculation of thermal output

30

60

47.6

69.3

118

144

49.6

71.5

95.1

120

147

51.7

73.6

97.6

123

149

53.9

76.1

100

125

152

56.0

78.4

103

128

155

58.2

80.8

105

131

157

60.4

83.1

107

133

160

62.6

85.5

110

136

163

64.8

87.9

113

139

166

67.0

90.3

115

141

169

Alliance 95 880											
	ΔΤ	0	1	2	3	4	5	6	7	8	9
	20	52.5	56.1	59.8	63.5	67.3	71.2	75.1	79.1	83.1	87.2
	30	91.3	95.5	99.7	104	108	113	117	122	126	131
	40	135	140	145	149	154	159	164	169	174	179
	50	184	189	194	199	204	209	214	219	225	230
	60	235	241	246	252	257	263	268	274	279	285
	70	291	296	302	308	314	319	325	331	337	343
	Alliance 95 680										
	ΔΤ	0	1	2	3	4	5	6	7	8	9
	20	42.6	45.5	48.5	51.5	54.6	57.7	60.8	64	67.3	70.6
	30	73.9	77.3	80.7	84.1	87.6	91.1	94.7	98.3	102	106
	40	109	113	117	121	124	128	132	136	140	144
	50	148	152	156	160	164	168	173	177	181	185
	60	190	194	198	203	207	211	216	220	225	229
	70	234	238	243	248	252	257	262	266	271	276
	Alliar	ice 95	430								
	ΔΤ	0	1	2	3	4	5	6	7	8	9
	20	28.0	29.8	31.7	33.6	35.5	37.5	39.5	41 4	43.5	45.5

Alliance 95 780 0 47.6

50.8

134

170

209

137

174

213

141

178

217

54.2

40	122	127	131	135	139	144	148	152	157	161	
50	166	170	175	180	184	189	193	198	203	208	
60	213	217	222	227	232	237	242	247	252	257	
70	262	267	273	278	283	288	293	299	304	309	
Alliance 95 580											
ΔΤ	0	1	2	3	4	5	6	7	8	9	
20	37.5	40.1	42.7	45.4	48.1	50.8	53.6	56.4	59.2	62.1	
30	65.1	68.0	71.0	74.0	77.1	80.2	83.3	86.5	89.6	92.9	
40	96 1	99 4	103	106	109	113	116	120	123	127	

144

221

148

186

225

152

189

229

155

193

234

159

238

163

201

242

57.5 61.0

94.1 98.0

64.5

68.0

71.6

75.2

78.9

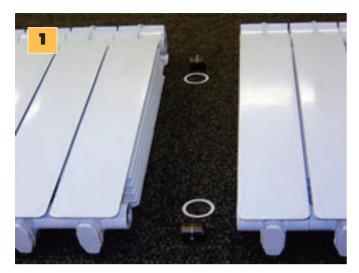
205

70

167

FARAL radiators are supplied in a maximum length of 15 pre joined sections (1200mm) for ease of transport, each 15 section radiator can quickly have other radiators joined to it on site with two nipples and a joining key, a joining key will pass through an 8 section radiator so for example a 31 section radiator could be supplied as a 15 section with two 8 section radiators.

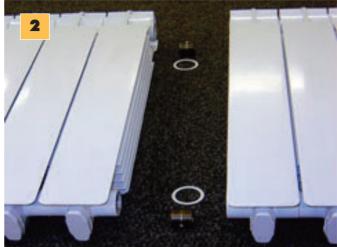
Assembly Guide for Faral Aluminium Radiators



Use a perfectly flat area for assembly and ensure that all machined faces and internal threads are clean.

Each section has right-handed connections at one end and left-handed ones at the other. Nipples have one end left handed and one right handed. Study the orientation of connections carefully before assembly.

There are 2 joints to be made for each pair of sections. Each of these requires 1 connection nipple and 1 gasket. A nipple key and tommy bar are required to rotate and tighten the connections.



Screw a pair of nipples into one end of the radiator.

Only screw in by one turn, do NOT screw in fully.

Place a gasket approximately at the mid-point of each nipple.

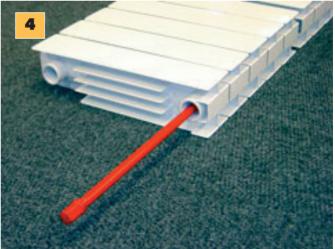
Do not use any jointing paste or tape (PTFE or similar) to the gasket, nipple threads or radiator.



Carefully slide the second section next to these nipples, taking care that the thread connections are correct.

Place the nipple key over the top of the radiator so the head is in line with the nipples to be turned.

Mark the key so that when it is inserted the head will engage inside the nipple. Slide the key in from the open end of the waterway until it engages into the nipple that needs tightening. Check the end of the key has fully engaged in the internal lugs inside the nipple.



Rotate the nipple using the nipple key, so that it pulls the 2 sections together. At this stage only rotate the nipple by one turn. Repeat with the other nipple.Repeat the above, alternating so that both sections are pulled gradually together and ensuring they are kept parallel.

Finally, tighten the joints so the gaskets are firmly compressed. A tightening torque of 100 lbf-ft must be applied. **DO NOT TEST WITH AIR**.

Only the Longo is provided with a diverter which must be fitted, you push this between the 1st & 2nd section on the flow into the bottom of the radiator.

Installation Guide for Faral Aluminium Radiators

Read this guide before starting installation

Handling Advice

Please refer to the handling guidelines provided with this product. This contains important information about the safe handling of these radiators to minimise risk and damage.

Assembly Advice

Radiators over 15 sections may be supplied in sectional form for ease of handling. If this is the case then please refer to the site assembly instructions supplied separately.

Water Treatment

On completion of any heating installation it is good practice to make sure the entire system is thoroughly cleaned and flushed to remove debris/flux residues etc. After a chemical cleaner is used, it must be thoroughly flushed from the system. Following this, the system should be dosed with a good quality water treatment to prevent corrosion, such as Fernox or Sentinal. Corrosion inhibitor must be used in accordance with the radiator manufacturer's instructions and recommendations and should take into account the particular metals within the system.

Cleaning & Aftercare

The external surface of the radiator should be cleaned with mild detergent. No solvents or abrasives should be used.

Painting

If they were supplied in primer finish they can be covered with a variety of paint types including water-based, oil-based, cellulose, 2-pack acrylic and stove enamel. These radiators may have been supplied factory painted in your choice of colour. If so, no further painting or surface treatment is necessary or recommended. Always consult the paint manufacturer's instructions.

Operating Pressure

These radiators are designed to operate at a system maximum pressure of 6 bar. Do not pressure test with air as the gaskets are designed for water systems.

Warranty & further information

These radiators have been designed, manufactured and tested to ensure long-lasting use. They are guaranteed to be free from material and manufacturing defects for 5 years from date of purchase. Should you require any further information, help or advice about any aspect of installing and maintaining these radiators, please contact our office.











Installation Guide for

Faral Aluminium Radiators



Bushes & Washers

Each radiator is supplied with a bush & washersfor each of the 4 connections.

- A Two 1/2" or 3/4" BSP threadedbushes & washers for connecting radiator valves
- B One bush and washer for theair vent
- C One blank bush & washer

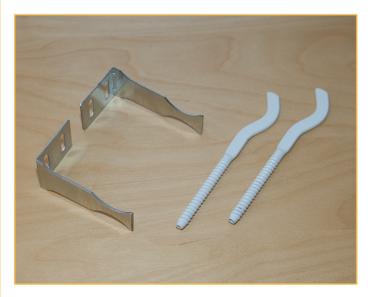
The bushes and brackets are supplied in a blister pack and must be fitted to the radiators before installing.

NB: 2 of the 4 bushes have left-handed threads and must only be fitted to the appropriate ports.

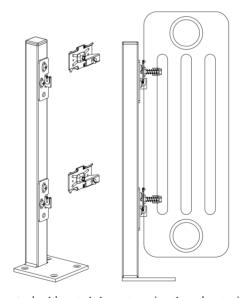
Use only the sealing rings supplied for sealing the bushes, air vents and plugs.

No thread sealant paste or tape may be used on the thread or bush which mates into the radiator. When fitting radiator valves to the left-hand threaded bushes; hold the bushes firmly with a spanner. This will ensure that the bushes are not allowed to rotate and become loosened., thereby preventing the risk ofleaking.

It is recommended that the threaded tail pieces of radiator valves or other pipe fittings that are screwed into the bushes are sealed with PTFE thread sealing tape. Sealing compound can also be used but great care must be taken to ensure that the sealing compound makes no contact with any of the sealing rings.



Wall brackets, supporting top and bottom (standard option).

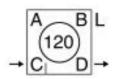


Floor mounted with retaining stays (optional extra).

Connection Details

The radiator can be installed with the following connection (inlet & outlet) configurations, referred to by the codes indicated below.





Note: The radiators are not reversable from top to bottom. Only the Longo is provided with a diverter which must be fitted, you push this between the 1st & 2nd section on the flow into the bottom of the radiator.

Bottom-Bottom Opposite-Ends BBOE



Top-Bottom-Same-Ends TBSE