



Fixings

PRH-1004-A-SAFE-26022024-4

Introduction

This document has been compiled to give advice on the safe application of all A-SAFE products.

The guide details the correct fixing for each product and highlights the drill hole size and torque setting for each fixing.

IMPORTANT

The fixings data detailed in this PDF are based on A-SAFE supplied fixings. If a customer uses their own fixings, they must refer to specific install instructions.

Product Fixing Guide

03

Zinc Plated > Stainless Steel Anchor Equivalent

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Product Fixing Guide

Click on the product title below to jump to the specific product page.

Pedestrian Barriers

eFlex Pedestrian Barrier 3 Rail

iFlex Pedestrian Barrier 3 Rail

iFlex Swing Gate Long

iFlex Swing Gate Short

iFlex Slide Gate

Micro Barriers

mFlex Single Traffic Barrier Ground Level

mFlex Single Traffic Barrier

mFlex Double Traffic Barrier

Single Traffic Barriers

eFlex Single Traffic Barrier

iFlex Single Traffic Barrier

Double Traffic Barriers

eFlex Double Traffic Barrier

iFlex Double Traffic Barrier

Atlas Double Traffic Barrier

Atlas Triangle Traffic Barrier

Atlas Polygon Traffic Barrier

Traffic Barriers+

eFlex Single Traffic Barrier+

iFlex Single Traffic Barrier+

iFlex Double Traffic Barrier+

Atlas Double Traffic Barrier+

Topple Barriers

Topple Barrier

Heavy Duty Topple Barrier

Low Level Protection

ForkGuard

Heavy Duty ForkGuard

Step Guard

Column & Corner Guards

FlexiShield Corner Guard

iFlexRail Column Guard

iFlexRail Column Guard+

Gates

iFlex Dock Gate

iFlex Dock Gate XL

eFlex Dock Gate

Traffic Gate

Height Restrictor & Alarm Bar

iFlex Height Restrictor

Under Guard

Under Guard

Under Guard with Heavy Duty ForkGuard

RackEnd Barriers

eFlex Single RackEnd Barrier

eFlex Single RackEnd Barrier with ForkGuard

eFlex Double RackEnd Barrier

eFlex Double RackEnd Barrier with ForkGuard

iFlex Single RackEnd Barrier

iFlex Single RackEnd Barrier with ForkGuard

Cold Storage

eFlex Cold Storage ForkGuard Barrier

iFlex Cold Storage Pedestrian Barrier 3 Rail

iFlex Cold Storage Single Traffic Barrier

iFlex Cold Storage Single Traffic Barrier+

iFlex Cold Storage Bollard

iFlex Cold Storage Height Restrictor

Cold Storage Single RackEnd Barrier

Bollards

iFlex Bollard

iFlex Heavy Duty Bollard

Monoplex Bollard 130

Monoplex Bollard 190

Signage

Sign Post

Service Yard

Dock Buffer

Truck Stop

Coach Stop

Car Stop

Car Park Specific Protection

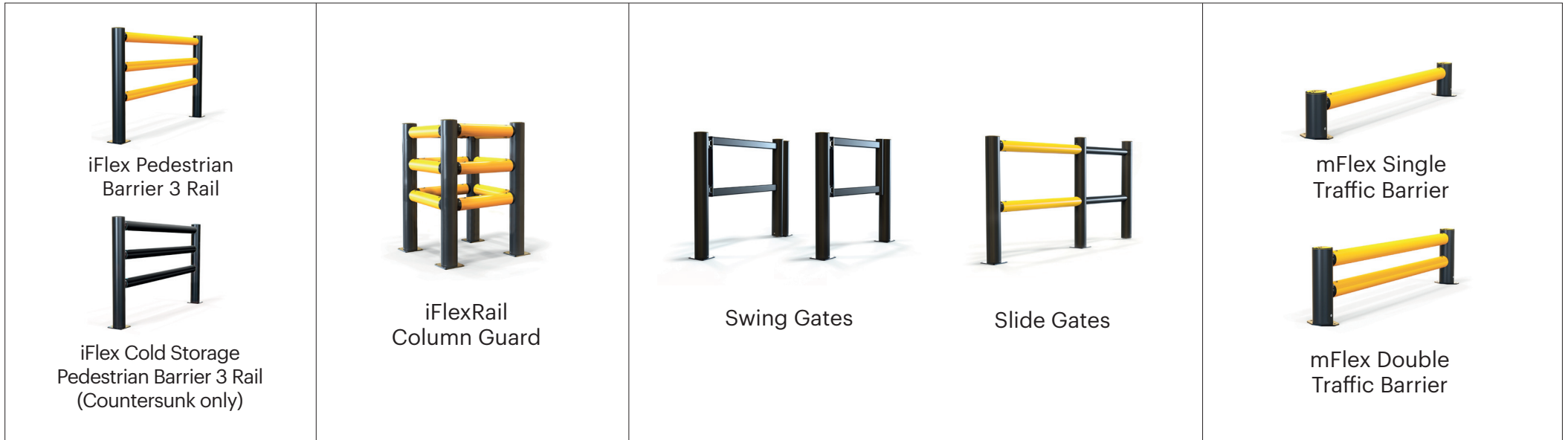
Vehicle Impact & Anti-climb Car Park Barrier

iFlex Single Car Park Barrier

Removable Barrier Bases

Slider Base Plates

Fixing suitable for



Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0036	12mm Hex Head Through Bolt, Z/P	12mm / 1/2"	85mm / 3 3/8"	13mm / 1/2" AF	22.5Nm / 17ft/lb	4	1
Countersunk	B-02-01-0039	12mm CSK SKT Head Through Bolt, Z/P	12mm / 1/2"	95mm / 3 3/4"	5mm / 3/16" AF	22.5Nm / 17ft/lb	4	1
**Chemical/Resin	B-02-01-0044	Chemical Anchor Stud 12 x160mm z/p	14mm / 9/16"	100mm / 4"	19mm / 3/4" AF	40Nm / 30ft/lb	1	4
***Removable	B-02-01-0042	Internal-threaded anchor socket M12, Z/P	20mm / 25/32"	125mm / 5"	-	40Nm / 30ft/lb	1	4
	B-02-02-0005	M12x35mm Hex Head set screw z/p			19mm / 3/4" AF		1	4
	B-02-02-0013	M12 Form C Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 12no fixing bolts *** 1no Tube of resin required for 10no fixings bolts



Fixing suitable for

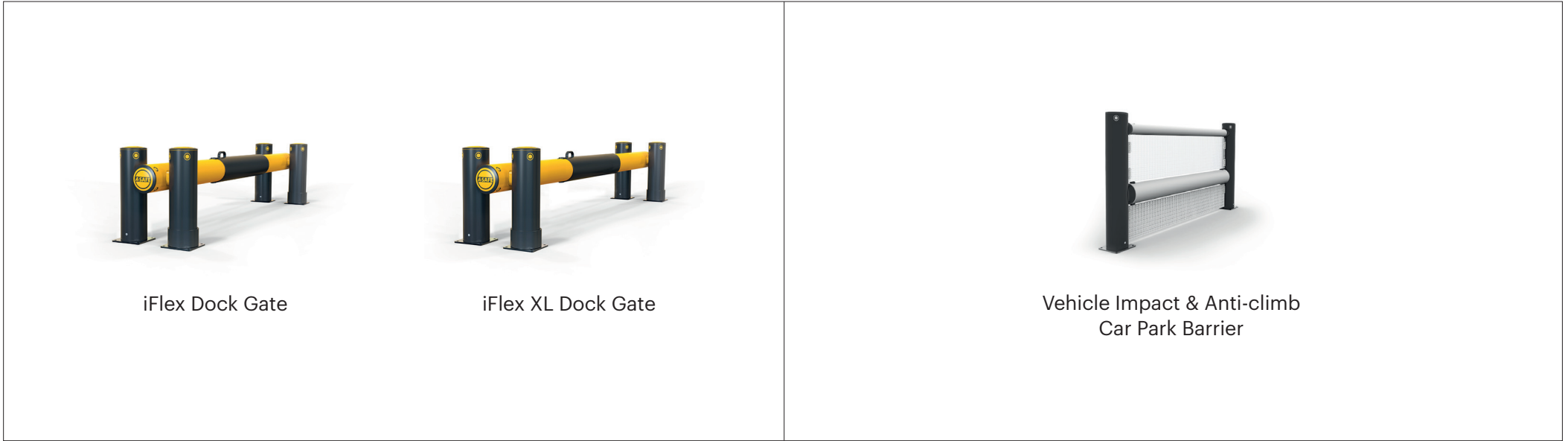
 iFlex Single Traffic Barrier  iFlex Single Traffic High Level Barrier	 Cold Storage iFlex Single Traffic Barrier (Countersunk only)	 iFlex Single RackEnd Barrier (Countersunk only)	 iFlex Single Traffic Barrier+  Cold Storage iFlex Single Traffic Barrier+ (Countersunk only)	 iFlexRail Column Guard+	 Cold Storage Single RackEnd Barrier	 eFlex Single RackEnd Barrier (Countersunk STD)  eFlex Double RackEnd Barrier (Countersunk STD)	 Sign Post
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Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0037	15mm Hex Head Through Bolt, Z/P	15mm / 5/8"	95mm / 3 3/4"	17mm / 1/2"AF	45Nm / 34ft/lb	4	1
Countersunk	B-02-01-0040	15mm CSK SKT Head Through Bolt, Z/P	15mm / 5/8"	95mm / 3 3/4"	6mm / 1/4"AF	40Nm / 30ft/lb	4	1
**Chemical/Resin	B-02-01-0044	Chemical Anchor Stud 12 x160mm z/p	14mm / 9/16"	100mm / 4"	19mm / 3/4"AF	40Nm / 30ft/lb	1	4
***Removable	B-02-01-0042	Internal-threaded anchor socket M12, Z/P	20mm / 25/32"	125mm / 5"	-	40Nm / 30ft/lb	1	4
	B-02-02-0005	M12x35mm Hex Head set screw z/p			19mm / 3/4"AF		1	4
	B-02-02-0013	M12 Form C Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 12no fixing bolts *** 1no Tube of resin required for 10no fixings bolts

Fixing suitable for



iFlex Dock Gate

iFlex XL Dock Gate

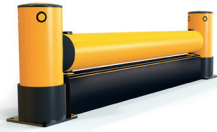
Vehicle Impact & Anti-climb
Car Park Barrier

Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0037	15mm Hex Head Through Bolt, Z/P	15mm / 5/8"	95mm / 3 3/4"	17mm / 1 1/16"AF	45Nm / 34ft/lb	4	1
Countersunk	B-02-01-0040	15mm CSK SKT Head Through Bolt, Z/P	15mm / 5/8"	95mm / 3 3/4"	6mm / 1/4"AF	40Nm / 30ft/lb	4	1
**Chemical/Resin	B-02-01-0044	Chemical Anchor Stud 12 x160mm z/p	14mm / 9/16"	100mm / 4"	19mm / 3/4"AF	40Nm / 30ft/lb	1	4
***Removable	B-02-01-0042	Internal-threaded anchor socket M12, Z/P	20mm / 25/32"	125mm / 5"	-	40Nm / 30ft/lb	1	4
	B-02-02-0005	M12x35mm Hex Head set screw z/p			19mm / 3/4"AF		1	4
	B-02-02-0013	M12 Form C Washer z/p					1	4

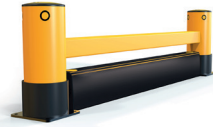
Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 12no fixing bolts *** 1no Tube of resin required for 10no fixings bolts

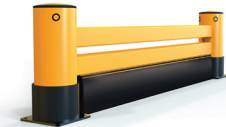
Fixing suitable for



iFlex Single RackEnd Barrier with ForkGuard (Countersunk only)



eFlex Single RackEnd Barrier with ForkGuard (Countersunk STD)



eFlex Double RackEnd Barrier with ForkGuard (Countersunk STD)

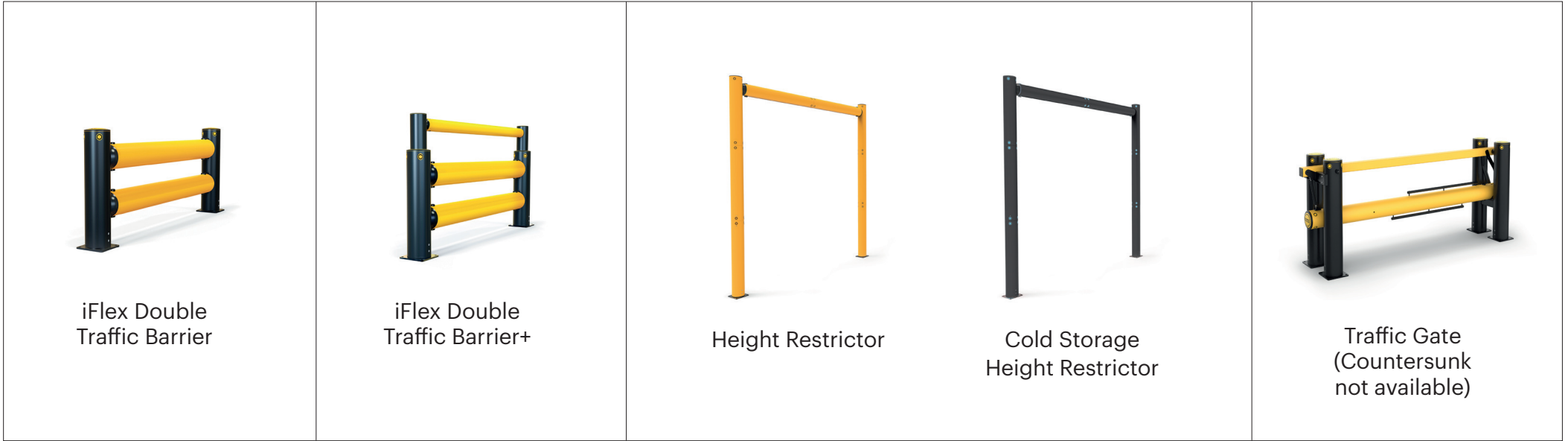
Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0037	15mm Hex Head Through Bolt, Z/P	15mm / 5/8"	95mm / 3 3/4"	17mm / 1/2"AF	45Nm / 34ft/lb	4	1
Countersunk	B-02-01-0040	15mm CSK SKT Head Through Bolt, Z/P	15mm / 5/8"	95mm / 3 3/4"	6mm / 1/4"AF	40Nm / 30ft/lb	4	1
**Chemical/Resin	B-02-01-0044	Chemical Anchor Stud 12 x160mm z/p	14mm / 9/16"	100mm / 4"	19mm / 3/4"AF	40Nm / 30ft/lb	1	4
***Removable	B-02-01-0042	Internal-threaded anchor socket M12, Z/P	20mm / 25/32"	125mm / 5"	-	40Nm / 30ft/lb	1	4
	B-02-02-0005	M12x35mm Hex Head set screw z/p			19mm / 3/4"AF		1	4
	B-02-02-0013	M12 Form C Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 12no fixing bolts *** 1no Tube of resin required for 10no fixings bolts

ForkGuard Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack
B-02-01-0052	15mm Hex Head Through Bolt, Z/P	15mm / 9/16"	95mm / 3 3/4"	17mm / 1/2"AF	45Nm / 34ft/lb	2

Fixing suitable for



Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0038	18mm Hex Head Through Bolt, Z/P	18mm / 1/16"	125mm / 5"	19mm / 3/4"AF	80Nm / 60ft/lb	4	1
Countersunk	B-02-01-0041	18mm CSK SKT Head Through Bolt, Z/P	18mm / 1/16"	125mm / 5"	10mm / 3/8"AF	80Nm / 60ft/lb	4	1
**Chemical/Resin	B-02-01-0047	Chemical Anchor Stud 16 x190mm z/p	18mm / 1/16"	130mm / 5 1/8"	24mm / 1/16"AF	80Nm / 60ft/lb	1	4
***Removable	B-02-01-0043	Internal-threaded anchor socket M16, Z/P	24mm / 1/16"	160mm / 6 5/16"	-	80Nm / 60ft/lb	1	4
	B-02-02-0009	M16x40mm Hex Head set screw z/p			24mm / 1/16"AF		1	4
	B-02-02-0015	M16 Form A Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 10no fixing bolts *** 1no Tube of resin required for 8no fixings bolts

Fixing suitable for



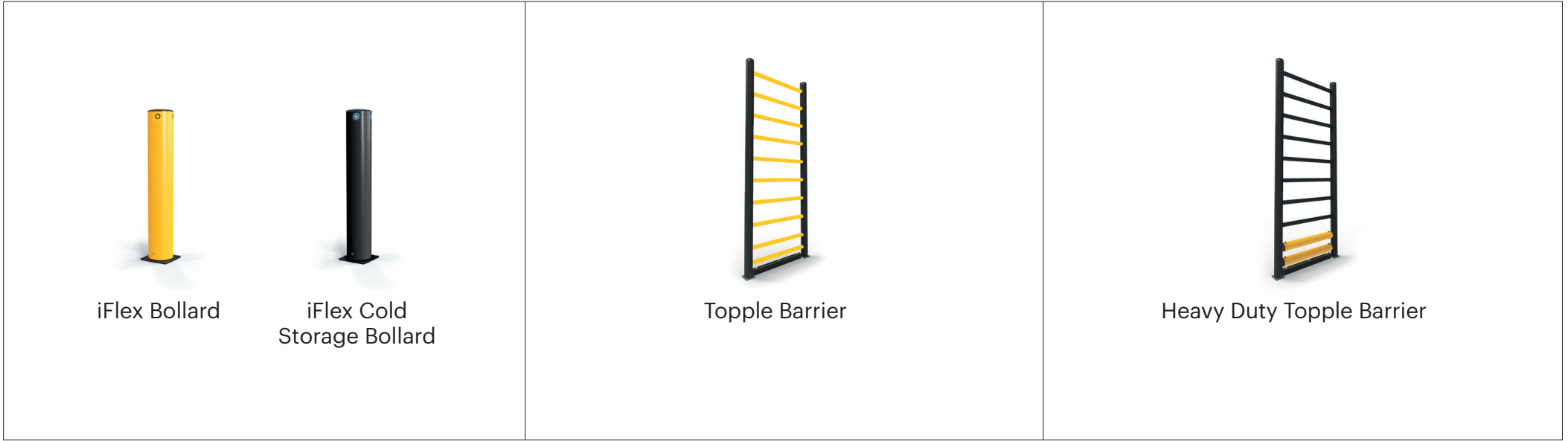
 <p>Atlas Double Traffic Barrier</p>	 <p>Atlas Double Traffic Barrier+</p>	 <p>Atlas Polygon Traffic Barrier</p>	 <p>Atlas Triangle Traffic Barrier</p>	 <p>iFlex Heavy Duty Bollard</p>
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Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0038	18mm Hex Head Through Bolt, Z/P	18mm / 11/16"	125mm / 5"	19mm / 3/4"AF	80Nm / 60ft/lb	4	1
**Chemical/Resin	B-02-01-0058	Chemical Anchor Stud 20 x 200mm z/p	22mm / 7/8"	130mm / 5 1/8"	30mm / 1 1/16"AF	120Nm / 89ft/lb	1	4
***Removable	B-02-01-0043	Internal-threaded anchor socket M16, Z/P	24mm / 15/16"	160mm / 6 3/16"	-	80Nm / 60ft/lb	1	4
	B-02-02-0009	M16x40mm Hex Head set screw z/p			24mm / 15/16"AF		1	4
	B-02-02-0015	M16 Form A Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 10no fixing bolts *** 1no Tube of resin required for 8no fixings bolts

Fixing suitable for



Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0038	18mm Hex Head Through Bolt, Z/P	18mm / 11/16"	125mm / 5"	19mm / 3/4"AF	80Nm / 60ft/lb	4	1
Countersunk	B-02-01-0041	18mm CSK SKT Head Through Bolt, Z/P	18mm / 11/16"	125mm / 5"	10mm / 3/8"AF	80Nm / 60ft/lb	4	1
**Chemical/Resin	B-02-01-0058	Chemical Anchor Stud 20x260mm Z/P	22mm / 7/8"	130mm / 5 1/8"	30mm / 1 1/16"AF	80Nm / 60ft/lb	1	4
***Removable	B-02-01-0043	Internal-threaded anchor socket M16, Z/P	24mm / 15/16"	160mm / 6 5/16"	-	80Nm / 60ft/lb	1	4
	B-02-02-0009	M16x40mm Hex Head set screw z/p			24mm / 15/16"AF		1	4
	B-02-02-0015	M16 Form A Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 6no fixing bolts *** 1no Tube of resin required for 8no fixings bolts



Fixing suitable for



eFlex Dock Gate



eFlex Pedestrian Barrier 3 Rail

Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0036	12mm Hex Head Through Bolt, Z/P	12mm / 1/2"	85mm / 3 3/8"	13mm / 1/2"AF	22.5Nm / 17ft/lb	4	1
Countersunk	B-02-01-0039	12mm CSK SKT Head Through Bolt, Z/P	12mm / 1/2"	95mm / 3 3/4"	5mm / 5/16"AF	22.5Nm / 17ft/lb	4	1
**Chemical/Resin	B-02-01-0044	Chemical Anchor Stud 12 x160mm z/p	14mm / 5/8"	100mm / 4"	19mm / 3/4"AF	40Nm / 30ft/lb	1	4
***Removable	B-02-01-0042	Internal-threaded anchor socket M12, Z/P	20mm / 25/32"	125mm / 5"	-	40Nm / 30ft/lb	1	4
	B-02-02-0005	M12x35mm Hex Head set screw z/p			19mm / 3/4"AF		1	4
	B-02-02-0013	M12 Form C Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 12no fixing bolts *** 1no Tube of resin required for 10no fixings bolts



Fixing suitable for



eFlex Single Traffic Barrier



eFlex Single Traffic Barrier+



eFlex Double Traffic Barrier

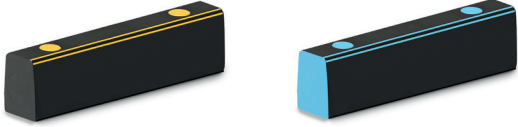
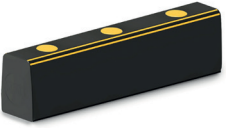
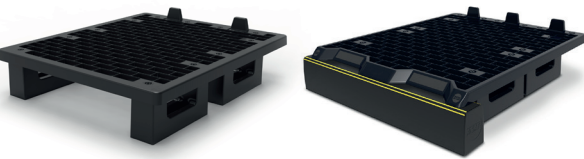
Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque Setting	Qty per Pack	Per Post
Standard	B-02-01-0036	12mm Hex Head Through Bolt, Z/P	12mm / 1/2"	85mm / 3 3/8"	13mm / 1/2"AF	22.5Nm / 17ft/lb	4	1
Countersunk	B-02-01-0039	12mm CSK SKT Head Through Bolt, Z/P	12mm / 1/2"	95mm / 3 3/4"	5mm / 5/16"AF	22.5Nm / 17ft/lb	4	1
**Chemical/Resin	B-02-01-0044	Chemical Anchor Stud 12 x160mm z/p	14mm / 5/8"	100mm / 4"	19mm / 3/4"AF	40Nm / 30ft/lb	1	4
***Removable	B-02-01-0042	Internal-threaded anchor socket M12, Z/P	20mm / 25/32"	125mm / 5"	-	40Nm / 30ft/lb	1	4
	B-02-02-0005	M12x35mm Hex Head set screw z/p			19mm / 3/4"AF		1	4
	B-02-02-0013	M12 Form C Washer z/p					1	4

Resin Tube	B-02-01-0046	Chemical Resin 380ml tube
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** 1no Tube of resin required per 10no fixing bolts *** 1no Tube of resin required for 8no fixings bolts

Fixing suitable for



		Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque setting	Qty per Pack	
 <p>ForkGuard Cold Storage ForkGuard</p>	B-02-01-0052	15mm Hex Head Through Bolt, Z/P	15mm / 9/16"	95mm / 3¾"	17mm / ⅞"AF	45Nm / 34ft/lb	2		
 <p>Heavy Duty ForkGuard</p>	B-02-01-0053	18mm Hex Head Through Bolt Z/P	18mm / ⅞"	125mm / 5"	19mm / ¾"AF	80Nm / 60ft/lb	765 - 1265 length	3	
							1800 - 2400 length	6	
 <p>Step Guard - 600 / 900 / 1200mm</p>	B-02-01-0067	24 OD M16 Anchor Bolt	24mm / ⅝"	130mm / 5⅛"	24mm / ⅝"AF	150Nm / 111ft/lb	600mm	2	
							900mm	3	
							1200mm	4	
 <p>Under Guard Under Guard with Heavy Duty ForkGuard</p>	Under Guard B-02-01-0025	M10 x 100 Galvanised Hex Head Concrete Screw	10mm / ⅜"	100mm / 4"	13mm / ½"AF	950Nm (Impact Wrench)	8		
	Heavy Duty Fork Guard B-02-01-0053	18mm Hex Head Through Bolt Z/P	18mm / ⅞"	125mm / 5"	19mm / ¾"AF	80Nm / 60ft/lb	3		


Fixing suitable for



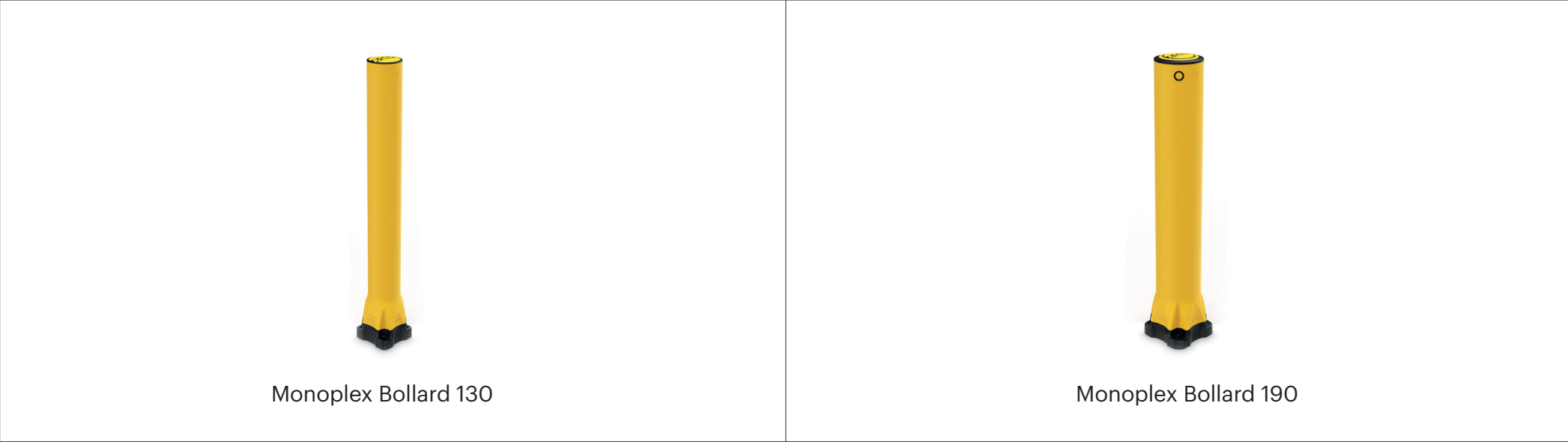
		Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque setting	Qty per Pack	
 <p>mFlex Single Traffic Barrier Ground Level</p>		B-02-01-0053	18mm Hex Head Through Bolt Z/P	18mm / 11/16"	125mm / 5"	19mm / 3/4" AF	80Nm / 60ft/lb	1 per post	1 per pack
 <p>FlexiShield Corner Guard</p>		B-02-02-0053	Fixing kit - 6 x 4 x 40 flat head screw and plugs					6 per Corner Guard	1 per pack
 <p>Dock Buffer</p>		B-02-01-0061	Concrete Screw 12 x 130 Hex Head	12mm / 1/2"	130mm / 5 1/8"	16mm / 5/8" AF	950Nm (Impact Wrench)	6 per Buffer	1 per pack
		B-02-02-0081	Washer					6 per Buffer	1 per pack
 <p>Truck Stop Coach Stop Car Stop</p>		B-02-01-0061	Concrete Bolt 12 x 130 Hex Head	12mm / 1/2"	130mm / 5 1/8"	16mm / 5/8" AF	950Nm (Impact Wrench)	4 per Car Stop	1 per pack
								5 per Coach Stop	1 per pack
								5 per Truck Stop	1 per pack

Fixing suitable for



		Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Wrench Size	Torque setting	Qty per Pack	
 <p>158 190</p> <p>Slider Base Plates</p>		B-02-01-0038	18mm hex head through bolt Z/P	18mm / 11/16"	125mm / 5"	19mm / 3/4"AF	80Nm / 60ft/lb	4 per plate	4 per pack

Fixing suitable for



Fixing Type	Item No.	Description	Nom. Drill Hole (W)	Min. Drill Depth	Quantity
Standard	B-02-01-0061	Concrete Screw 12 x 130 Hex Head	14mm / 5/8"	130mm / 5 1/8"	4 per Bollard
Washer	B-02-02-0068	M12 Form G Washer z/p			4 per Bollard

Zinc Plated > Stainless Steel Anchor Equivalent

Standard Zinc Plated Anchors (Note Pack Size)		Stainless Steel Equivalent (x1)	
Item No.	Description	Item No.	Description
B-02-01-0036	12mm Hex Head Through Bolt, Z/P (4pk) (G)	B-02-01-0010	12mm Hex Head Through Bolt, A2
B-02-01-0037	15mm Hex Head Through Bolt, Z/P (4pk) (G)	B-02-01-0006	15mm Hex Head Through Bolt, A2
B-02-01-0038	18mm Hex Head Through Bolt, Z/P (4pk) (G)	B-02-01-0022	18mm Hex Head Through Bolt, A2
B-02-01-0039	12mm CSK SKT Head Through Bolt, Z/P (4pk)	B-02-01-0004	12mm CSK SKT Head Through Bolt, A2
B-02-01-0040	15mm CSK SKT Head Through Bolt, Z/P (4pk) (G)	B-02-01-0008	15mm CSK SKT Head Through Bolt, A2
B-02-01-0041	18mm CSK SKT Head Through Bolt, Z/P (4pk)	B-02-01-0024	18mm CSK SKT Head Through Bolt, A2
B-02-01-0051	12mm Hex Head Through Bolt, Z/P (G)	B-02-01-0010	12mm Hex Head Through Bolt, A2
B-02-01-0053	18mm Hex Head Through Bolt, Z/P (G)	B-02-01-0022	18mm Hex Head Through Bolt, A2
B-02-01-0054	12mm CSK SKT Head Through Bolt, Z/P	B-02-01-0004	12mm CSK SKT Head Through Bolt, A2

If you have any questions please contact
the product management team at A-SAFE HQ
Product.Management@asafe.com



Data Sheets



Testing Videos



Install Documents

PRODUCTHUB

Document Reference	PRH-1004-A-SAFE-26022024-4
Document Description	Fixings
Date Created	October 2023
Author/s	Matthew Briggs / Jerry Budby
Checked by	Nathaniel Hyde / Jerry Budby
Approved by	Ben Allen
Revision	Version 4 - February 2024