

BLADE RUNNER

BLADERUNNER Floor Waste Upgrades

Trafalgar are proud to introduce a slimline retro-fit floor waste collar - The BLADERUNNER, for upgrading existing floor waste (and stack) pipe penetrations. Often incorrect (or no) fire collars are cast-in place around floor waste penetrations, so using the BLADERUNNER provides a simple and economical alternative to expensive fire board enclosures or other bulky retro-fit collars.



KEY FEATURES

- Slimline design corrosion resistant materials
- Innovative spring-loaded mechanism
- Tested for PVC stack & floor waste pipes
- Fire tested to AS1530.4:2014
- Easily installed over existing cast-in fire collars
- Simple install
- Australian made

APPLICATIONS

Fire tested to AS1530.4, BLADERUNNER retrofit Floor Waste collars are tested for PVC pipe materials connected to P-traps, 4-way risers and elbow fittings directly underneath the slab for the following:

- Retro-fit floor waste applications
- Retro-fit Stack pipe penetrations
- 100mm & 50mm PVC pipes
- Upgrade incorrect cast-in collars
- Upgrade floor wastes that don't have cast-in collars
- Socket/ fittings with P-trap and 4-way risers









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BLADE RUNNER

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WHAT IS BLADERUNNER?

Trafalgar are proud to introduce our new Australian Made BLADERUNNER, a retro-fit fire collar designed for use specifically for upgrading existing floor waste pipe penetrations for up to 4 hours FRL's and have been tested to AS1530.4-2014. The BLADERUNNER incorporates a spring-loaded mechanism loaded with intumescent that can be applied underneath the slab to rectify any incorrect cast-in collar or where no collar has been fitted at all.



Floor waste applications are not continuous pipes, often having a metal grill finished at the floor level and a water trap installed below. The standard intumescent fire collars will not close off the penetration quickly enough to prevent early fire spread of fire through the floor grate, so a cast-in floor waste collar incorporating mechanical shutting mechanisms and are often specified to effectively close off the penetration, stopping the spread of fire in this unique application.

Often the incorrect cast-in collar has been previously installed, resulting in compliance headaches and expensive rectification options using fire boards to construct large enclosures, or bulky retro fit collars that struggle to fit around the water trap. This creates implications as other services have already been secured and often the large fire-rated board bulkhead is not practical. The BLADERUNNER is only 22mm thick and is supplied in two halves to be bolted to the slab around a P-Trap without compromising the spacing of existing services.

APPLICATIONS:

- Upgrading existing cast-in collars- both stack and floor waste pipes
- Upgrading floor waste and stack pipes penetrations that don't have a cast-in collar
- Retro-fit floor waste and stack PVC pipes with 100mm & 50mm pipes
- PVC pipes
- P-Trap and 4-way riser arrangements with socket fitting inside penetration
- 90 degree elbow fitting located inside penetration for 50mm & 100mm stack pipes



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SPECIFICATIONS

SPECIFICATIONS



BLADERUNNER- FWR-B100

Casing	Powder coated steel
Internal metal components	Galvanised and spring steel
Intumescent	Trafalgar's Australian made high grade expansion
Dimensions	Each half: 240x140x22mm
Pieces per unit	2x halves
Sealant	Not required
Fixings (not supplied)	Steel M6x50mm masonry anchors (dynabolts or anka screws)

BLADERUNNER MINI- FWR-B50

Casing	Powder coated steel
Internal metal components	Galvanised and spring steel
Intumescent	Trafalgar's Australian made high grade expansion
Dimensions	Each half: 190x140x22mm
Pieces per unit	2x halves
Sealant	Not required
Fixings (not supplied)	Steel M6x50mm masonry anchors (dynabolts or anka screws)

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FIRE RESISTANCE LEVEL

FIRE RATING – HOW IS FIRE PERFORMANCE MEASURED?

An FRL (fire resistance level) is a handy way of summarising the performance of a building element. It consists of 3 numbers, all given in minutes:



Penetrations are not required to have a Structural Adequacy rating and is usually expressed as a dash. For example, a penetration through a 4-hour load bearing wall would be written as -/240/240.

INTEGRITY

The BLADERUNNER system will achieve the integrity performance for up to 4 hours physically stopping the direct spread of fire, however the insulation performance of the penetration will be limited to the type of floor being used and conductivity of the services in the penetration.

INSULATION (TEMPERATURE RISE)

Heat transfer via conduction (or heat rise) can limited through retrofit collar systems however the plastic pipe services are not thermally conductive, and the BLADERUNNER can effectively close the pipe quick enough to reduce heat to transfer through the penetration and do not require additional wrapping or treatment for heat rise for up to 240 minutes.



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Contents:

BladeRUNNER: FLOOR WASTE PIPES

BLADE RUNNER

The BLADERUNNER has been tested in a floor waste application where there was no cast-in collar previously installed, proving that the innovative design will work without relying on the presence of any cast-in collar above it. This test design was considered as being the worst, most onerous case where the blade mechanism must shut the pipe and rely solely on its own pre-loaded intumescent material to tightly seal the penetration for up to 4 hours (-/240/240). Testing in this orientation proves that the BLADERUNNER will work with or without the presence of a cast-in collar in the slab, and is suitable to upgrade non-compliant penetrations with or without cast-in collars.

Pipe	BladeRUNNER size	Tested without Fitting?	Floor (minimum thickness)	Tested with Fitting?	Existing stack collar in the slab?	FRL (up to)	Report			
50mm Floor waste PVC	BladeRUNNER-MINI-50	Yes	Concrete 150mm	P-trap, 4-way risers & elbows	Yes	-/240/240	TR001.3 0623 V3			
100mm Floor)/	Concrete 150mm	P-trap, 4-way risers & elbows	Yes	-/240/240	TR001.3 0623 V3	
waste PVC	BladeRUNNER-100	Yes	res	163	103	90mm CLT timber Viridi floor	N/a	N/a	-/120/120	Contact Trafalgar
50mm Stack PVC	BladeRUNNER-MINI-50	Yes	Concrete 150mm	Elbow fitting	Yes	-/120/120	RTLFT1881			
100mm Stack PVC	BladeRUNNER-100	Yes	Concrete 150mm	Elbow fitting	Yes	-/120/120	RTLFT1881			









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INSTALLATION

BLADERUNNER

PREPARE & FIX



Place one half of the BladeRUNNER correct side up with sticker exposed and visible, to the slab with the pipe between one half. Secure in the two holes in the BLADERUNNER using min. M6 x 50 masonry anchors. Care is to be taken not to overtighten the ancors. No sealant is required.

PREPARE & FIX



Place remaining half of the BladeRUNNER correct side up, with sticker exposed and visible, to the slab with the pipe between one half. Secure in the two holes in the BLADERUNNER using min. M6 x 50 masonry anchors. Care is to be taken not to overtighten the ancors. No sealant is required.

For any assitance regarding application and installtion get in touch with technical@tgroup.com.au



SYSTEM RANGE

BLADERUNNER

Item Number	Description	Min Order Qty	Box QTY
FWR-B100	BLADERUNNER retrofit floor waste collar- to suit 100mm pipes	1x	12x units
FWR-B50	BLADERUNNER MINI retrofit floor waste collar- to suit 50mm pipes	1x	12x units





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FAQ

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Q Does it matter what collar was cast in previously?

A No, the BLADERUNNER retrofit floor waste collar can be applied over existed casted in collars as long as installed as per the installation instructions.

Q Can I use this on services other than PVC?

A At this stage the BLADERUNNER retrofit floor waste collar can only be used with 50mm & 100mm PVC floor waste and stack pipes.

Q Do I need sealant to install this collar?

A No, the BLADERUNNER does not require any sealant as part of the tested system.

Q Can I use the BladeRUNNER on a Floor Waste pipe that does not have a cast-in collar?

A Yes, the BLADERUNNER has been tested directly on a concrete slab without any cast-in collar above it.

Q Can I use the BladeRUNNER with timber floor system?

A Yes, the BladeRUNNER has been tested with a 100mm PVC floor waste pipe with an FRL of -/120/120. Contact Trafalgar or Viridi Group for more information

Q Can fittings be located inside the BladeRUNNER?

A Yes, The BLADERUNNER has been tested with a P-traps, 4-way risers and elbows located inside of the collar as well as outside of it. More testing is in progress - Contact Technical Team for more information.



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TECHNICAL DRAWING







		-
240		
	240	

Drawing No	me: BladeR	eRUNNER assembly		Test Standard: A\$1530.4	Codes:	Revision:	Date:	No.:	NOTICE:
Project Title	: BladeRUNN	NER Tech guide		Fire resistance level:	Drawn By : MP		Т	RAFÁLG	NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm Irafalgar Head Office: PO BOX 545
Drawing No. :	Sheet : 1 of 2	Date: 25/01/2023	Scale: NTS	Based on Report No.:	Checked By: JH	STANDARD DRAWIN			Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical@tgroup.com.a W: www.tfire.com.au





TECHNICAL DRAWING







TECHNICAL DRAWING





Drawing Na	me: BladeR	UNNER MINI assemt	oly	Test Standard: A\$1530.4	Codes:	Revision:	Date:	No.: NOTICE:
Project Title:	BladeRUNN	IER 63mm_Tech gu	ide	Fire resistance level:	Drawn By : MP		TR	NOTE: ALL DIMENSIONS ARE IN MILLIMETRES (mm). Trafalgar Head Office: PO BOX 545 Chester Hill NSW 2162
Drawing No. :	Sheet : 1 of 2	Date: 25/01/2023	Scale : NTS	Based on Report No.:	Checked By: JH	STANDARD DRAWING	V F	FIRE Chester Hill NSW 2162 T: 1800 888 714 F: 1800 201 500 E: technical/gtroup.com.au





					84	0	4x holes for min. M6x50mm Masonry anchors
Drawing No	ıme: BladeR	UNNER MINI ancho	r detail	Test Standard: AS1530.4	Codes:	Revision:	Date: No.: NOTICE:
		UNNER MINI anchoi NER 63mm_Tech gu			Codes: Drawn By: MP	Revision:	Date: No.: NOTICE: NOTE: ALL DIMENSIONS ARE IN MULIMETRES Immil TRAFALIGAR D BOX 545 Chester Hill NSW 2162 Chester Hill NSW 2162 Chester Hill NSW 2162 Chester Hill NSW 2162

