



# Technical Data Sheet

## RPB® Z-Link® Respirator

### DESCRIPTION

The RPB Z-Link is a multi-use powered or supplied air loose-fitting respirator, covering a number of different industrial applications where there is a need for respiratory, eye, face, head, and hearing protection.

This respirator does not require face fit testing.

#### The Z-Link offers a number of optional accessory items, including:

	Part #
Z-Link+® Weld Visor accessory	16-670
Quiet-Link™ Ear Defender system (under the cape so user maintains APF 1000(US)/TH3 (EU) respiratory protection)	18-533
Vision-Link™ helmet light	16-901
Comms-Link™ in-helmet communication system	16-922
IR Shade 5 lens (other lenses available)	16-810-IR5
FR Breathing Tube Cover	04-854

#### Package numbers

Breathing tube, PAPR or flow device sold separately.

#### NIOSH Powered Air - PX5®

	Part #
Z-Link with Tychem® 2000 Face Seal	16-018-12
Z-Link with Zytec® FR Face Seal	16-018-11-FR
Z-Link with Zytec FR Shoulder Cape	16-018-21-FR

#### NIOSH Supplied Air (includes breathing tube and C40™)

Z-Link with Tychem® 2000 Face Seal	16-015-12
Z-Link with Zytec FR Face Seal	16-015-11-FR
Z-Link with Zytec FR Shoulder Cape	16-015-21-FR

#### CE/AS/NZS Powered Air - PX5

Z-Link with Tychem® 2000 Face Seal	16-018-12-CE
Z-Link with Zytec FR Face Seal	16-018-11-CE
Z-Link with Zytec FR Shoulder Cape	16-018-21-CE

#### CE/AS/NZS Supplied Air

Z-Link with Tychem® 2000 Face Seal	16-020-12
Z-Link with Zytec FR Face Seal	16-020-11
Z-Link with Zytec FR Shoulder Cape	16-020-21

(additional configurations are available)



16-010-21 - Z-Link with optional 16-810-IR5 lens

### APPROVALS & STANDARDS

ISO9001  
CERTIFIED COMPANY

National Institute for Occupational Safety and Health  
**NIOSH**  
PAPR & SAR

**ANSI**  
S3.19  
HEARING PROTECTION  
Only in conjunction with 18-533 earmuffs.

Z89.1  
HARD HAT PROTECTION  
Type 1 Class C

Z87+  
EYE & FACE PROTECTION

**SEI**

Certified Model  
Modèle certifié

CSA Z94.3-15  
EYE & FACE PROTECTION  
Class 7D Respirator Facepiece  
PROTECTION DES YEUX ET DU VISAGE  
Masque respiratoire classe 7D

CE 2797

EN14594:2005 3B  
EN12941:1998  
+A2:2008 TH3 P R SL  
RESPIRATORY PROTECTION

EN352-3:2002  
HEARING PROTECTION  
Only in conjunction with 18-533 earmuffs.

EN397:2003+A1:2009  
HARD HAT PROTECTION  
IMPACT CLAUSES

EN166:2001 CLASS 1F  
EYE & FACE PROTECTION



BSI Certified Product  
AS/NZS 1716:2012  
BMP# 714303  
RESPIRATORY PROTECTION

AS/NZS 1801:1997  
BMP# 714306  
HARD HAT PROTECTION  
Not all configurations conform to this standard.  
Please visit [rpsafety.com](http://rpsafety.com) for more details.

AS/NZS 1337.1:2010  
BMP# 714304  
EYE & FACE PROTECTION

#### Required components

- Z-Link respirator head-top
- Cape, face seal, or chin seal
- Breathing tube
- Flow control device and breathing airline, or RPB PAPR

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## RPB Z-Link Respirator

### REQUIRED COMPONENT OPTIONS

#### Breathing airlines Part #

NIOSH		
RPB	25ft Breathing Airline	NV2028
	50ft Breathing Airline	NV2029
	100ft Breathing Airline	NV2027
Schrader	25ft Breathing Airline	04-342-25
	50ft Breathing Airline	04-342-50
	100ft Breathing Airline	04-342-100
RZ	25ft Breathing Airline	04-352-25-RZ
	50ft Breathing Airline	04-352-50-RZ
	100ft Breathing Airline	04-352-100-RZ

Standard hoses max working length - 300ft  
Max working pressure - 300psi

RPB	15ft recoil hose*	04-412-15
	25ft recoil hose*	04-412-25
Schrader	15ft recoil hose*	04-442-15
	25ft recoil hose *	04-442-25

Recoil hose max working length - 1 hose  
Max working pressure - 300psi

#### CE/AS/NZS

CEJN	7.5m Breathing Airline	04-322-25
	15m Breathing Airline	04-322-50
	30m Breathing Airline	04-322-100

Max working length - 90m  
Max working pressure - 20.7bar

Refer to instruction manual for more detail

#### Flow control devices Part #

NIOSH		
NIOSH	C40™ Climate Control Device	03-501
	Constant Flow Valve	03-101
	PX4 AIR PAPR	03-901
	PX5® PAPR	03-801
CE/AS/NZS	C40 Climate Control Device	03-502
	Constant Flow Valve	03-102
	PX4 AIR PAPR	03-901-G
	PX5® PAPR	03-801-G

#### Fittings and couplers

NIOSH	RPB Quick Connect
	Schrader Twist Connect
	RPB RZ Quick Connect
CE/AS/NZS	CEJN 342 Double Action Safety Coupler

#### Cape options Part #

Zytec FR Face Seal	16-711
Zytec FR Shoulder Cape	16-721
Tychem® 2000 Face Seal	16-712
Tychem® 2000 Shoulder Cape	16-722
Tychem® 4000 Face Seal	16-713
Tychem® 4000 Shoulder Cape	16-723
Zytec FR Chin Seal (Reduced APF)	16-731

### ACCESSORIES & CONSUMABLES

#### Accessories Part #

Z-Link+ clip on weld visor assembly	16-670
Vision-Link helmet mounted light	16-910
Quiet-Link in-helmet mounted ear defenders	18-533
Comms-Link in-helmet communication	16-922
Comfort-Link™ helmet padding system	16-520-T
FR breathing tube cover	04-814

#### Safety lens options Part #

Safety Lens Anti-Fog/Anti-Scratch	16-810
Mirror Tinted Anti-Fog	16-810-MT
Smoke Tinted Anti-Fog/Anti-Scratch	16-810-ST
Infrared (Shade 5)	16-810-IR5
Yellow Tinted Anti-Fog/Anti-Scratch	16-810-YT
Tear-off Lens	16-811

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# Technical Data Sheet

## RPB Z-Link Respirator

### SPECIFICATIONS

#### Assigned Protection Factor

NIOSH	APF 1000+
CE/AS/NZS	APF 40 - TH3 NPF 500

#### Materials

Nylon	Injection molded parts
Polyurethane foam	Silencer foam, comfort padding
Polystyrene	Impact absorber
Polypropylene	Visor
MDPE	Head suspension
Polycarbonate	Safety lens
Tychem® 2000	Cape, face seal
Tychem® 4000	Cape, face seal with sealed seams
Zytec	Cape, face seal, chin seal

#### Noise rating

NRR: 25 (when used with the standard side pads)  
NRR: 41 (when used with the 18-533 ear defenders and bell shaped earplugs)

#### Operating temperature

14°F to 140°F / -10°C to 60°C

#### Storage temperature

14°F to 113°F / -10°C to 45°C <90%RH

#### Weight

Z-Link with Tychem® 2000 neck seal and no side pads	1.95lbs / 0.88kg
Z-Link with FR neck seal and no side pads	2.10lbs / 0.95kg
Z-Link with FR shoulder cape and no side pads	2.35lbs / 1.07kg

#### Application ranges (including but not limited to the following)

Metal cutting/grinding, brazing, fettling, thermospray/metalization, sanding, painting (automotive, industrial, fire proofing), welding, concrete cutting, aggregate, pharmaceutical, healthcare, chemical and foundry applications.

#### Warranty

1 year. Conditions apply, visit [rpb-safety.com/legal](http://rpb-safety.com/legal) for full details.



#### Employers

Read the Z-Link and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

#### Product users

Read the Z-Link and the flow control device instruction manuals and follow the product user safety instructions.

Manuals are regularly updated.

#### Current version of manual and for other languages:

[rpb-safety.com/resources](http://rpb-safety.com/resources)

#### Contact

RPB® Safety - Global Headquarters  
2807 Samoset Rd, Royal Oak, MI 48073, USA  
T: 1-866-494-4599  
E-mail: [sales@rpb-safety.com](mailto:sales@rpb-safety.com)

[www.rpb-safety.com](http://www.rpb-safety.com)

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# Technical Data Sheet

## RPB Z-Link+ Weld Visor

### DESCRIPTION

The RPB Z-Link+ is an optional attachment accessory for the RPB Z-Link multi-use respirator. It is intended for use in welding and grinding applications where there is a need for protection from airborne contaminants, eye/face protection and head protection. The Z-Link+ does not provide respiratory protection when not used in conjunction with the RPB Z-Link.

#### Type description

Z-Link weld visor attachment.

Part numbers	Part #
Auto darkening configuration	16-670
No lenses	16-671

#### Required components

- RPB Z-Link respirator head-top
- FR cape or face seal
- Breathing tube
- Flow control device and breathing airline, or RPB PAPR

#### Application ranges (including but not limited to the following)

Heavy industry welding (where hard hat is required), arc spray/metalization, plasma/oxy acetylene cutting, lancing, and burning.



16-670 RPB Z-Link+  
Weld Visor with ADF lens

### APPROVALS & STANDARDS

(In addition to the RPB Z-Link standards)





# Technical Data Sheet

## RPB Z-Link+ Weld Visor

### SPECIFICATIONS

#### ADF technical data

Model	RPB ADF
Viewing area	2.66 x 3.89 in 67.6 x 98.8mm
ADF overall dimensions	4.49 x 4.57 x 0.47 in 114 x 116.2 x 11.9mm
Weight	4.59oz / 130g
Open state shade	3 (bright mode)
Closed state shade	9-13 (dark mode)
Switching time from light to dark	0.1 ms (23°C / 73°F) 0.1 ms (55°C / 131°F)
Switching time from dark to light	0.15s / 1.0s
UV / IR protection	Maximum protection in light and dark modes
Operating temperature	23°F to 131°F -5°C to 55°C
Storage temperature	-4°F to 157°F -20°C to 70°C
Power supply	Solar cells, 2 pcs. replaceable 3V LI batteries (CR2032)
Classification in accordance with EN379	Optical class = 1 Scattered light = 1 Homogeneity = 1 Viewing angle dependence = 2
Standard	EN379:2003+A1:2009
Certifications	CE, ANSI, compliance with CSA

#### Materials

Nylon super tough	Injection molded parts, fixed shade frame
Zytec	Cape or face seal
Polycarbonate	Impact lens
Glass	ADF lens or fixed shade lens
ABS	ADF housing

#### Storage temperature

Visor: 14°F to 113°F / -10°C to 45°C <90%RH

ADF: -4°F to 157°F / -20°C to 70°C

#### Weight

Z-Link+ with ADF	0.84lbs / 380g
Z-Link+ with passive lens	0.66lbs / 301g

#### Warranty

1 year for Z-Link Weld Visor. 3 years for ADF lens.

Conditions apply, visit [rpb.com/industrial/legal](https://rpb.com/industrial/legal) for full details.



# Technical Data Sheet

## RPB Z-Link+ Weld Visor (continued)

### LENS OPTIONS

#### Auto Darkening Lens (ADF) Part #

ADF - standard with 16-670 Z-Link+ assembly 16-871

#### Passive fixed shade lens - parts required Part #

1. Z-Link+ Visor without ADF 16-671

2. Fixed shade lens frame 16-877

3. Passive fixed shade lens

Shade 5 16-877-5

Shade 8 16-877-8

Shade 9 16-877-9

Shade 10 16-877-10

Shade 11 16-877-11

Shade 12 16-877-12

#### Protective lenses Part #

##### (to protect ADF/fixed shade lenses)

Front impact lens 16-872

(for both ADF/fixed shade lenses)

Rear lens (for ADF only) 16-873

Rear lens (for fixed shade only) 16-878

#### Magnifying lenses Part #

1.0x 13-072-1

1.5x 13-072-1.5

2.0x 13-072-2

2.5x 13-072-2.5



#### Employers

Read the Z-Link and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

#### Product users

Read the Z-Link and the flow control device instruction manuals and follow the product user safety instructions.

Manuals are regularly updated.

#### Current version of manual and for other languages:

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#### Contact

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[www.rpbsafety.com/industrial](http://www.rpbsafety.com/industrial)



# Technical Data Sheet

## RPB Z-Link Radiant Heat Kit

### DESCRIPTION

The Z-LINK Radiant Heat Kit is an optional visor and cape attachment for high heat applications such as foundries, steel mills and glass manufacturing. It allows the user to quickly add on the high heat attachments to any Z-LINK Respirator for radiant heat and flame protection while maintaining APF 1000 (TH3) respiratory protection.

Replacement Visors - c/w clip and retainers	Part #
Radiant Heat Gold Visor	16-675-GT
Radiant Heat Gold Visor IR5	16-675-GTIR5
IR5 Visor	16-675-IR5

Additional Components:	Part #
Aluminized Cape	16-724
Aluminized Top Cover	16-744
Aluminized Rear Cover	16-754
Aluminized Breathing Tube Cover	04-855

### Required components

- Z-Link respirator head-top
- Cape - Aluminized Radiant Heat or Zytex®
- Breathing tube - Aluminized Radiant Heat cover optional
- Flow control device and breathing airline, or RPB PAPR

### Application ranges (including but not limited to the following)

Foundries, steel mills, glass manufacturing, arc flash.

### Warranty

1 year. Conditions apply, visit [rpbsafety.com/industrial/legal](http://rpbsafety.com/industrial/legal) for full details.



Z-Link with optional Radiant Heat Kit

### APPROVALS & STANDARDS

**ISO9001**  
CERTIFIED COMPANY



**ANSI**  
Z87+  
EYE & FACE PROTECTION

**CE 2797**  
EN166:2001 CLASS 1F  
EYE & FACE PROTECTION



BSI Certified Product  
AS/NZS 1337.1:2010  
BMP# 714304  
EYE & FACE PROTECTION



Certified Model  
Modèle certifié

CSA Z94.3-15  
EYE & FACE PROTECTION  
Class 7D Respirator Facepiece  
PROTECTION DES YEUX ET DU VISAGE  
Masque respiratoire classe 7D

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# Technical Data Sheet

## RPB Z-Link Radiant Heat Kit (continued)

### SPECIFICATIONS

#### Assigned Protection Factor

NIOSH	APF 1000+
CE	APF 40 - TH3 NPF 500

#### Materials

Nylon	Injection molded parts
Polycarbonate/24k Gold	Lens
O-PAN/Aramid Aluminized fabric	Cape, top and rear covers, breathing tube cover
Brass	Threaded insert

#### Operating temperature

14°F to 200°F / -10°C to 93°C

#### Storage temperature

14°F to 113°F / -10°C to 45°C <90%RH

#### Weight

Gold Plated Lens with clip and knobs	0.44lbs / 198g
Radiant Heat Cape	0.50lbs / 229g
Radiant Heat Top Panel	0.07lbs / 34g
Radiant Heat Rear Panel	0.11lbs / 50g
Radiant Heat Breathing Tube Cover	0.17lbs / 76g

#### Ratings

- The Radiant Heat Visor meets ANSI/ISEA Z87.1, EN 166:2001, AS/NZS 13371:2010 and CSA Z94.3-15
- The aluminized fabric is tested based on the ASTM F1939 test method and rated to temperatures up to 800°F (+427°C) and a radiant temperature of 3000°F (+1649°C). The fabric is an O-PAN/Aramid constructed in a ripstop weave.



#### Employers

Read the Z-Link, Radiant Heat Kit and the flow control device instruction manuals and carry out the employer responsibilities.

Provide the manuals to all users.

#### Product users

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