

# AIRFOIL

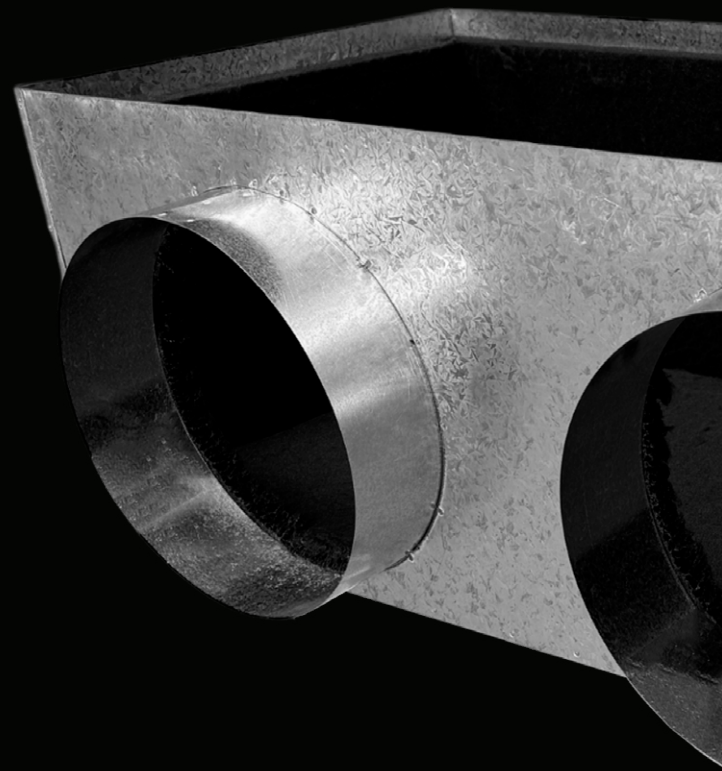


GRILLES  
DUCT  
FITTINGS

*making it happen sooner...*



Quality  
Endorsed  
Company  
ISO 9001  
 SAI GLOBAL



**RETURN AIR INSULATED  
PLENUM BOX - SIDE ENTRY  
RA-IPB**



## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

### PRODUCT DESCRIPTION AND APPLICATION

Airfoil's Australian Made Return Air Insulated Plenum Boxes (RA-IPB) are meticulously crafted from premium 0.55mm Australian Galvanised sheet metal. The primary function of the (RA-IPB) is to facilitate the gathering of Return Air from the conditioned space, channeling it back to the HVAC system for reconditioning. This crucial process ensures the maintenance of adequate air circulation and ventilation within the building.

Available in a range of options, the Return Air Insulated Plenum Box can be tailored to suit specific needs. Whether opting for an uninsulated (Plain) version or selecting from a variety of standard insulation types such as 5mm or 10mm Rubber, 13mm or 25mm Polyester, or 13mm or 25mm Black-faced Fibreglass and 25mm Perforated Black-faced Fibreglass, Airfoil provides flexibility to meet diverse requirements. Additionally, custom insulation options are available upon request to cater to unique specifications.

To enhance flexibility, the Airfoil RA-IPB offers multiple Side Entry spigot placements, including Opposite and Adjacent Spigot placements. Additionally, Airfoil produces its innovative "Top Entry" (RAB-TE), featuring spigots positioned at the top of the Plenum Box, opposite the open end of the Plenums. This unique design allows the Top Entry RA-IPB to efficiently return air directly from the rear of the Return Air Grille.

Designed to seamlessly integrate with Airfoils' Return Air Grille range this quality Plenum Box ensures compatibility and efficiency. Suitable for both commercial and domestic settings, where thermal and acoustic requirements are paramount, it stands as a testament to Airfoil's commitment to excellence in Sheet Metal solutions.

## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

### PRODUCT SPECIFICATIONS AND INFORMATION

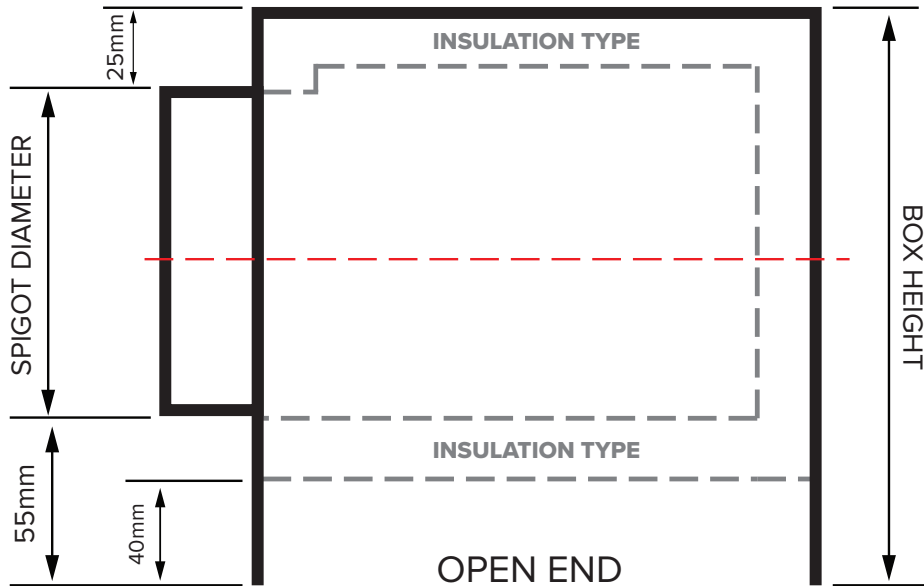
- **Product ordering code – RA-IPB**
- Australian Made and Designed
- Manufactured from 0.55mm Australian galvanised steel
- Custom box heights manufactured to suit grille requirements
- Used for return air heating and cooling
- Mounted behind grille
- Acoustic qualities
- Thermal qualities
- Available in Plain, Rubber (5mm/10mm), Polyester (13mm/25mm), Black-faced Fibreglass (13mm/25mm) or Perforated Black-faced Fibreglass (25mm)
- Variety of spigot placements available (Side, Opposite & Adjacent)
- Spigot sizes available are 100mm, 150mm, 200mm, 250mm, 300mm, 350mm, 400mm, 450mm, 500mm, 550mm and 600mm diameters
- Customised oval spigots available to suit varying box height restrictions
- **Top Entry** spigot placements available on request
- Suitable for both commercial and domestic settings
- Airfoil information available



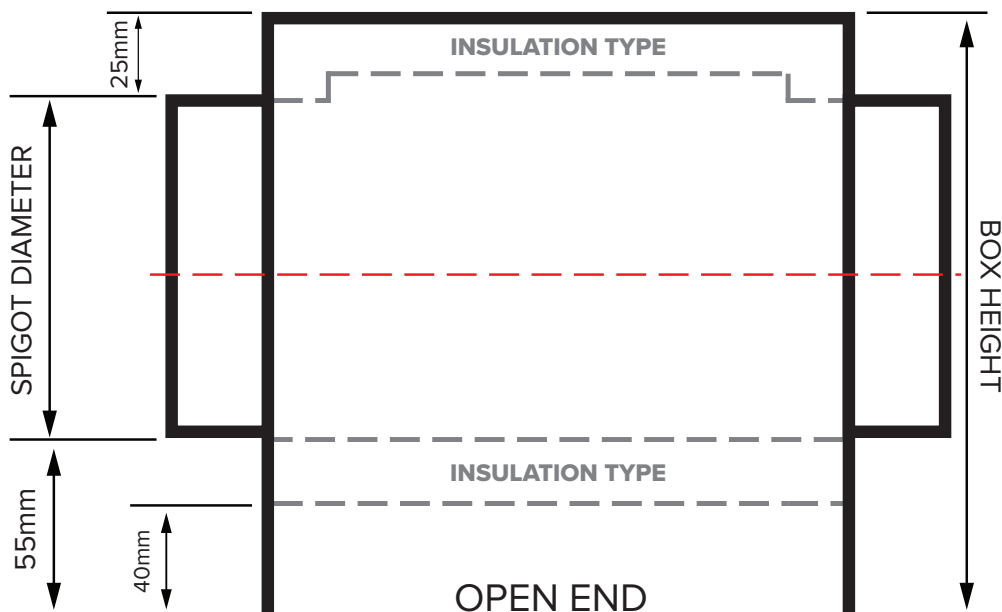
## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

### CROSS SECTIONAL DIAGRAM

#### SIDE ENTRY PLENUM BOX



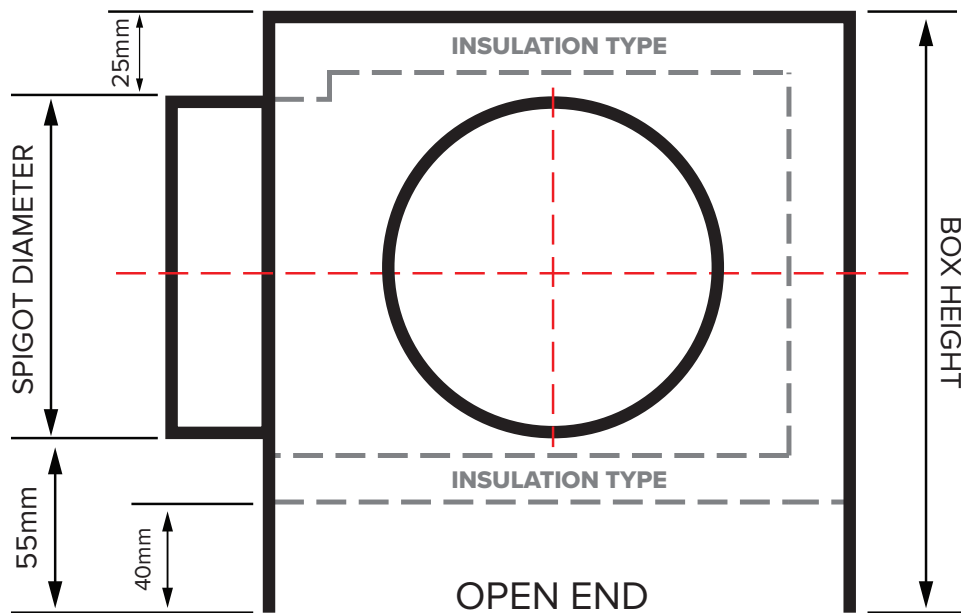
#### OPPOSITE SIDE ENTRY PLENUM BOX



## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

### CROSS SECTIONAL DIAGRAM

## ADJACENT SIDE ENTRY PLENUM BOX



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## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

### PRODUCT ORDERING CODES

PRODUCT CODE	BOX OPENING (mm)	BOX HEIGHT (mm)	SPIGOT SIZE (mm)	5mm/10mm RUBBER INSULATION	13mm/25mm POLYESTER INSULATION	13mm/25mm FIBERGLASS INSULATION	25mm PERFORATED INSULATION
RA-IPB150-150	155 x 155	230	150 Dia	✓	✓	✓	✓
RA-IPB200-150	205 x 205	230	150 Dia	✓	✓	✓	✓
RA-IPB200-200	205 x 205	280	200 Dia	✓	✓	✓	✓
RA-IPB225-150	230 x 230	230	150 Dia	✓	✓	✓	✓
RA-IPB225-200	230 x 230	280	200 Dia	✓	✓	✓	✓
RA-IPB250-150	255 x 255	230	150 Dia	✓	✓	✓	✓
RA-IPB250-200	255 x 255	280	200 Dia	✓	✓	✓	✓
RA-IPB250-250	255 x 255	330	250 Dia	✓	✓	✓	✓
RA-IPB300-150	305 x 305	230	150 Dia	✓	✓	✓	✓
RA-IPB300-200	305 x 305	280	200 Dia	✓	✓	✓	✓
RA-IPB300-250	305 x 305	330	250 Dia	✓	✓	✓	✓
RA-IPB300-300	305 x 305	380	300 Dia	✓	✓	✓	✓
RA-IPB350-150	355 x 355	230	150 Dia	✓	✓	✓	✓
RA-IPB350-200	355 x 355	280	200 Dia	✓	✓	✓	✓
RA-IPB350-250	355 x 355	330	250 Dia	✓	✓	✓	✓
RA-IPB350-300	355 x 355	380	300 Dia	✓	✓	✓	✓
RA-IPB350-350	355 x 355	430	350 Dia	✓	✓	✓	✓
RA-IPB375-150	380 x 380	230	150 Dia	✓	✓	✓	✓
RA-IPB375-200	380 x 380	280	200 Dia	✓	✓	✓	✓
RA-IPB375-250	380 x 380	330	250 Dia	✓	✓	✓	✓
RA-IPB375-300	380 x 380	380	300 Dia	✓	✓	✓	✓
RA-IPB375-350	380 x 380	430	350 Dia	✓	✓	✓	✓

## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

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PRODUCT CODE	BOX OPENING (mm)	BOX HEIGHT (mm)	SPIGOT SIZE (mm)	5mm/10mm RUBBER INSULATION	13mm/25mm POLYESTER INSULATION	13mm/25mm FIBERGLASS INSULATION	25mm PERFORATED INSULATION
RA-IPB400-150	405 x 405	230	150 Dia	✓	✓	✓	✓
RA-IPB400-200	405 x 405	280	200 Dia	✓	✓	✓	✓
RA-IPB400-250	405 x 405	330	250 Dia	✓	✓	✓	✓
RA-IPB400-300	405 x 405	380	300 Dia	✓	✓	✓	✓
RA-IPB400-350	405 x 405	430	350 Dia	✓	✓	✓	✓
RA-IPB400-400	405 x 405	480	400 Dia	✓	✓	✓	✓
RA-IPB450-150	455 x 455	230	150 Dia	✓	✓	✓	✓
RA-IPB450-200	455 x 455	280	200 Dia	✓	✓	✓	✓
RA-IPB450-250	455 x 455	330	250 Dia	✓	✓	✓	✓
RA-IPB450-300	455 x 455	380	300 Dia	✓	✓	✓	✓
RA-IPB450-350	455 x 455	430	350 Dia	✓	✓	✓	✓
RA-IPB450-400	455 x 455	480	400 Dia	✓	✓	✓	✓
RA-IPB450-450	455 x 455	530	450 Dia	✓	✓	✓	✓
RA-IPB550-150	555 x 555	230	150 Dia	✓	✓	✓	✓
RA-IPB550-200	555 x 555	280	200 Dia	✓	✓	✓	✓
RA-IPB550-250	555 x 555	330	250 Dia	✓	✓	✓	✓
RA-IPB550-300	555 x 555	380	300 Dia	✓	✓	✓	✓
RA-IPB550-350	555 x 555	430	350 Dia	✓	✓	✓	✓
RA-IPB550-400	555 x 555	480	400 Dia	✓	✓	✓	✓
RA-IPB550-450	555 x 555	530	450 Dia	✓	✓	✓	✓
RA-IPB550-500	555 x 555	580	500 Dia	✓	✓	✓	✓

## RETURN AIR INSULATED PLENUM BOX - SIDE ENTRY RA-IPB

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PRODUCT CODE	BOX OPENING (mm)	BOX HEIGHT (mm)	SPIGOT SIZE (mm)	5mm/10mm RUBBER INSULATION	13mm/25mm POLYESTER INSULATION	13mm/25mm FIBERGLASS INSULATION	25mm PERFORATED INSULATION
RA-IPB550-250-150	555 x 255	230	150 Dia	✓	✓	✓	✓
RA-IPB550-250-200	555 x 255	280	200 Dia	✓	✓	✓	✓
RA-IPB550-250-250	555 x 255	330	250 Dia	✓	✓	✓	✓
RA-IPB550-250-300	555 x 255	380	300 Dia	✓	✓	✓	✓
RA-IPB550-250-350	555 x 255	430	350 Dia	✓	✓	✓	✓
RA-IPB550-250-400	555 x 255	480	400 Dia	✓	✓	✓	✓
RA-IPB550-250-450	555 x 255	530	450 Dia	✓	✓	✓	✓
RA-IPB550-250-500	555 x 255	580	500 Dia	✓	✓	✓	✓
RA-IPB600-600-150	605 x 605	230	150 Dia	✓	✓	✓	✓
RA-IPB600-600-200	605 x 605	280	200 Dia	✓	✓	✓	✓
RA-IPB600-600-250	605 x 605	330	250 Dia	✓	✓	✓	✓
RA-IPB600-600-300	605 x 605	380	300 Dia	✓	✓	✓	✓
RA-IPB600-600-350	605 x 605	430	350 Dia	✓	✓	✓	✓
RA-IPB600-600-400	605 x 605	480	400 Dia	✓	✓	✓	✓
RA-IPB600-600-450	605 x 605	530	450 Dia	✓	✓	✓	✓
RA-IPB600-600-500	605 x 605	580	500 Dia	✓	✓	✓	✓
RA-IPB1150-550-150	1155 x 555	230	150 Dia	✓	✓	✓	✓
RA-IPB1150-550-200	1155 x 555	280	200 Dia	✓	✓	✓	✓
RA-IPB1150-550-250	1155 x 555	330	250 Dia	✓	✓	✓	✓
RA-IPB1150-550-300	1155 x 555	380	300 Dia	✓	✓	✓	✓
RA-IPB1150-550-350	1155 x 555	430	350 Dia	✓	✓	✓	✓



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RA-IPB1150-550-400	1155 x 555	480	400 Dia	✓	✓	✓	✓
RA-IPB1150-550-450	1155 x 555	530	450 Dia	✓	✓	✓	✓
RA-IPB1150-550-500	1155 x 555	580	500 Dia	✓	✓	✓	✓
RA-IPB1200-600-150	1205 x 605	230	150 Dia	✓	✓	✓	✓
RA-IPB1200-600-200	1205 x 605	280	200 Dia	✓	✓	✓	✓
RA-IPB1200-600-250	1205 x 605	330	250 Dia	✓	✓	✓	✓
RA-IPB1200-600-300	1205 x 605	380	300 Dia	✓	✓	✓	✓
RA-IPB1200-600-350	1205 x 605	430	350 Dia	✓	✓	✓	✓
RA-IPB1200-600-400	1205 x 605	480	400 Dia	✓	✓	✓	✓
RA-IPB1200-600-450	1205 x 605	530	450 Dia	✓	✓	✓	✓
RA-IPB1200-600-500	1205 x 605	580	500 Dia	✓	✓	✓	✓