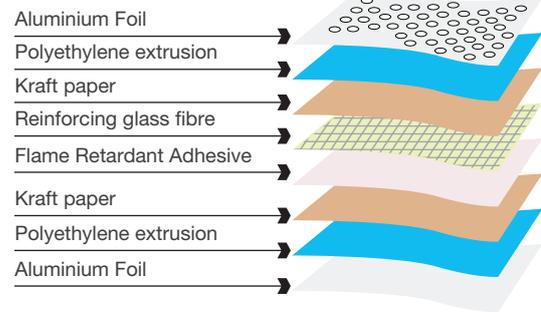


## FACING FOIL HEAVY DUTY PERFORATED 450P

### Description

Facing Foil Heavy Duty Perforated 450P is a double sided reflective foil laminate with approx. 2.5mm diameter perforations. The facing foil product has an outer layer of aluminium foil laminated to high density kraft paper with a unique extrusion polyethylene which provides a superior bond. A second layer of kraft paper is bonded with a heavy coating of flame retardant adhesive and reinforced with continuous strands of fibreglass in two directions. Another outer layer of foil is laminated with extrusion for superior bond. The final product is perforated to provide 11% open space.

### Product Composition



### Applications

Facing Foil Heavy Duty Perforated 450P is recommended for use as an acoustic insulation facing to maximise the acoustic absorption properties of the glasswool insulation. Recommended for lining internal ductwork for high volume air conditioning (HVAC) systems, common to large commercial buildings, to reduce sound transmission of moving air and air-borne noise from room to room. It is also recommended for providing acoustic treatment of walls and ceilings when used in combination with a glasswool blanket and installed behind a ceiling or wall lining.

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### Product Data

Roll width mm	Roll length m	m <sup>2</sup> per roll	Roll weight kg
1200	300	360	111.6
1350	60	81	25.1
1500	300	450	558
1500	600	900	279

### Physical Properties

Property	Test Method/Standard	Result	Unit
Duty Classification (prior to perforation)	AS4200.1	Heavy Duty	
Resistance to dry delamination	AS/NZS 4201.1	PASS	
Resistance to wet delamination	AS/NZS 4201.2	PASS	
Shrinkage	AS/NZS 4201.3	≤ 0.5	%
Emittance of reflective face (prior to perforation)	AS/NZS 4201.5	IR Reflective (0.03)	
Edge tear resistance (prior to perforation)	Lateral	112	N
	Machine	85	N
Tensile strength (prior to perforation)	Lateral	8.6	kN/m
	Machine	13.9	kN/m

## Fire Hazard Properties

Facing Foil Heavy Duty Perforated 450P exhibits the following characteristics when laminated to semi rigid bulk insulation and tested in accordance with the following standards:

Property	Test Method/Standard	Result
Early Fire Hazard Indices Ignitability Index Spread of Flame Index Heat Evolved Index Smoke Developed Index	Ignitability, Flame Propagation, Heat Release and Smoke Release (AS/NZS 1530.3)	0 0 0 3
Burn Test – Air Duct	In accordance with AS 4254	Complies

## Health and Safety

There are no known health or safety risks associated with this product for applications described in this datasheet. Facing Foil Heavy Duty Perforated 450P contains aluminium foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come into contact with electrical wiring during installation or use. For additional information or to request a Safety User Information Sheet (SUIS) please visit [www.baroninsulation.com.au](http://www.baroninsulation.com.au) or contact your Baron Insulation Representative.

## Acoustic Performance

### Sound Absorption

The performance of sound absorption for insulation is described by the Noise Reduction Coefficient (NRC). In sound absorption applications, the NRC is used as an acoustic performance measure. The higher the NRC, the greater the sound absorption at the representative frequencies.

The NRC is the calculated average result of four frequencies: 250 Hz, 500 Hz, 1,000 Hz and 2,000 Hz.

Facing Foil Heavy Duty Perforated 450P Insulation achieves the following sound absorption coefficients when tested in accordance with AS ISO 354:

Product F132 Semi Rigid faced with:	Nominal thickness mm	Sound Absorption Coefficients at frequencies (Hz) of:										
		100	125	250	500	1000	2000	3150	4000	5000	NRC	$\alpha_w$
Facing Foil Heavy Duty Perforated 450P	25	0.05	0.06	0.22	0.63	0.87	1.00	0.92	0.88	0.83	0.70	0.55 (MH)
	38	0.08	0.16	0.57	0.89	1.08	1.02	0.98	0.99	0.94	0.90	0.85
	50	0.07	0.19	0.68	1.07	1.05	1.01	0.91	0.96	0.86	0.95	1.00
	75	0.22	0.52	1.16	1.07	0.99	1.01	0.99	0.97	0.90	1.05	1.00
	100	0.45	0.82	1.19	1.14	1.06	1.06	1.01	1.01	0.96	1.10	1.00

## Recommended Air Velocities

The recommended air velocities has been determined to be 40m/s. A safety factor of 0.4 is applied in accordance with the UL181 Standard to give a recommended maximum working velocity of 16m/s.

For higher velocities, duct linings should be used behind perforated sheet metal mechanically fastened to the duct wall. Maximum design velocities are valid for ductliner insulation faced by Baron Insulation and installed according to AS4254.2.

## Technical Specifications

When specifying, state the following:

Facing material should be Facing Foil Heavy Duty Perforated 450P bonded directly to Glasswool 32kg Semi-Rigid insulation.

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