

Product Technical Statement



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Product description Apache



Product scope The Apache is a free control vapour barrier slip joint for penetrations and capping. It is used to prepare sub-floor bases in tandem with the laying of DPM membranes to protect penetrations i.e., ducts and pipes.

- Standard thickness is 250-micron plastic or can be custom-made to order.
- Available in 150mm, 250mm, 350mm and 450mm sizes or can be custom-made to order.

Product limitations Do not leave exposed to UV

Design requirements Apache is manufactured from InnoPlus LL7410D resin a linear low-density polyethylene with butene comonomers, with high content of slip and anti-block. Films extruded from InnoPlus LL7410D have high tensile strength, elongation, good toughness and outstanding puncture strength

Installation requirements Estimate FFL and cut the top of the Apache off. Place Apache over pipe or service. Wrap DPM tape around the top of the Apache at FFL and to the base. Lay DPM over the service, splicing to accommodate the penetration and tape off (first vapour barrier stop joint). Cut small square of bubble wrap and place around the pipe sealing top, bottom and lap to form slip joint. Take second Apache out and place over the pipe, flattening sheet and taping to membrane. Fold the surplus Apache over the at the top and tape off to eliminate contamination of the pipe. Wrap further tape around the Apache. When concrete has been poured remove surplus wrap in readiness for the plumber. Pipe should move freely ensuring a vapour proof

barrier and seismic movement. For full instructions refer to video [Concrete Foundations Made Easy | Video Instruction Tutorials \(eziyaka.co.nz\)](https://www.eziyaka.co.nz/ConcreteFoundationsMadeEasy/VideoInstructionTutorials)

Maintenance requirements

Nil

Declaration

I confirm that this product is not subject to a warning or ban

Sealing Multiple Penetrations using Conqra Apaches

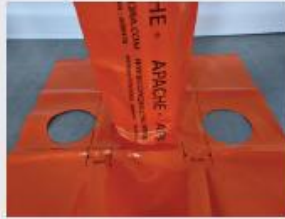


? The Problem

How to seal multiple penetrations.

? The Solution

The Conqra Apache



1 Cut two holes

Using the first Conqra Apache, cut 2 holes in line with the outer two penetrations, allowing a gap of 50mm.



2 Cut the 2nd Apache

Trim the second Apache allowing a 25mm taping strip to allow for 50mm tape overlay seal.



3 Cut the 3rd Apache

Trim the third Apache allowing a 25mm taping strip to allow for 50mm tape overlay seal.



4 Place first Apache over the middle penetration



5 Place the second Apache over one of the outer penetration



6 Place the third Apache over the other penetration



7 Tape seal all leading edges

Seal achieved! =



LL7410D

Linear Low Density Polyethylene Resin

Special Characteristics : InnoPlus LL7410D resin is a linear low density polyethylene with butene comonomers, with high content of slip and antiblock. This grade offers the excellent machinability on conversion lines. Films extruded from InnoPlus LL7410D have high tensile strength, elongation, good toughness and outstanding puncture strength. It is available for tubular blown film processing.

Typical Applications: InnoPlus LL7410D is recommended for producing general purpose films, liners, food packaging, heavy duty and agricultural films.

Additives : Slip 800 ppm and antiblock 4000 ppm

Typical Properties :

Properties	LL7410D	Unit	Test Method
Physical Properties (Based on pellets and press-molded sheet)			
Melt Flow Rate (190 °C, 2.16 kg)	1.0	g/10 min	ASTM D1238
Density	0.921	g/cm ³	ASTM D792
Melting Temperature	121	°C	ASTM D3418
Vicat Softening Point	100	°C	ASTM D1525
Film Properties* (Based on blown film)			
Tensile Strength at Break (MD/TD)	34 / 26	MPa	ASTM D882
Elongation at Break (MD/TD)	600 / 800	%	ASTM D882
Tensile Modulus, 1% Secant (MD/TD)	190 / 230	MPa	ASTM D882
Dart Impact Strength	100	g	ASTM D1709
Tear Strength (MD/TD)	100 / 300	g	ASTM D1922
Haze	17	%	ASTM D1003
Gloss (45°)	50	-	ASTM D2457

* Film made on blown film line at blow up ratio 2.5. Gloss (45°) obtained from 40 microns film while other film properties obtained from 25 microns film.

Recommendation :

The recommended temperature setting is in the range of 160 – 180 °C for extruder and 170 – 190 °C for die zone.

FDA Statement :

Food and Drug Administration US FDA 21 CFR 177.1520 and Commission Regulation (EU) 10/2011. More compliance regulations and standards that related to the product shall be exhibited in Product Regulatory Certificate (PRC) document.

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Note : Properties reported here are typical values of the product, not to be considered as specifications.

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