

# Physical Properties - YELOfon Floor Insulation (Acoustic)

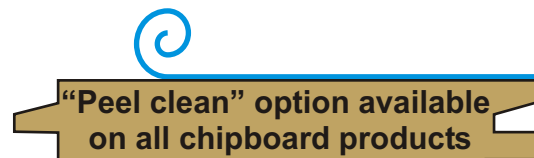
*Collecta's insulation products are manufactured to the highest possible specification. All products' physical properties are determined under strictly controlled laboratory conditions.*

Acoustic insulation		YELOfon		
Properties	Unit	CHI P 28	HD5	HD10+
Resilient layer composition	-	Closed cell, cross-linked polyethylene	Closed cell, non-cross-linked polyethylene	
Type and thickness of facing*	-	18mm P5 chipboard	-	100 micron HDPE (Surebond)
Resilient layer thickness	mm	10	5	10
Overall thickness	mm	28	5	10
Board size / roll size / batten length	m	0.6 x 2.40	1.5 x 75	1.5 x 33.33
Weight	kg/m <sup>2</sup>	12.90	<0.15 (30kg/m <sup>3</sup> )	<1.0
	kg/board/roll	18.57	18.56	<25
Long term water absorption (Resilient layer)	% vol.	<5.0 <sup>(1)</sup>	<5.0 <sup>(1)</sup>	<5.0 <sup>(1)</sup>
Compressive strength	kPa	30 <sup>(4)</sup>	18 <sup>(4)</sup>	20 <sup>(4)</sup>
Global Warming Potential (GWP)		0	< 5	< 5

## Thermal insulation

Properties	Standard	Unit	YELOfOAM X2i Extruded polystyrene
Thickness'	-	mm	20, 25, 30, 35, 40, 50, 65, 70, 75, 80, 90, 100, 120
Sheet size	-	mm	600 x 2500
Thermal conductivity	BS EN 12667: 2001	W/mK	0.029
Compressive strength <sup>(2)</sup>	BS EN 826	kPa	≤40mm 250 ≥50mm 300
Density	BS EN 1602	kg/m <sup>3</sup>	30
Long-term water absorption by immersion	BS EN 12087	% Volume	<0.5%
Temperature range	-	°C	-50/+75

Notes:  
<sup>(1)</sup>Percentage of water absorption after 28 days fully immersed  
<sup>(2)</sup>Percentage of water absorption after 28 days in an atmosphere of 95% relative humidity at 20°C  
<sup>(3)</sup>Percentage of mass of water after 24 hours immersion.  
<sup>(4)</sup>@ 20% compression



## Acoustic Edge Strips

*Collecta's range of flexible extruded polyethylene edge strips have excellent physical properties:*

- Environmentally friendly - CFC, HCFC & HFC free
- Excellent acoustic performance
- Zero ODP
- Low GWP (<5)
- Very low water absorption (<5% BS EN ISO 2896)
- Closed-cell structure



Strip type	YELOfon ES5/10	YELOfon ES BPF	YELOfon FS	YELOfon E-strip
Description	Extruded polyethylene foam roll	Extruded polyethylene foam roll with perforations and bonded polythene flange	Profiled extruded polyethylene foam strip	Extruded polyethylene foam roll with self adhesive backing, Surebond facing and foldable flaps
Dimensions	5mm(t) x 60mm (h) x 50m(l) 5mm(t) x 100mm(h) x 50m(l) 5mm(t) x 120mm(h) x 50m(l) 5mm(t) x 150mm(h) x 50m(l) 10mm(t) x 100mm(h) x 50m(l) 10mm(t) x 150mm(h) x 50m(l)	5mm(t) x 100mm(h) x 50m(L) 5mm(t) x 150mm(h) x 50m(L) 10mm(t) x 150mm(h) x 50m(L) (with self adhesive backing)	6mm x (30mm x 30mm) x 2m	7mm x 200mm x 33m
Profile				

Note. Special size flanking strips manufactured to order, subject to minimum quantity.