
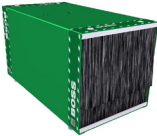




## THERMOBREAK® TUBE PIPE INSULATION SYSTEMS

In partnership with Sekisui Foam Australia, BOSS Fire has released an extensive range of firestopping systems for lagged steel, iron & copper pipes using Thermobreak® Tube Pipe Insulation. Thermobreak® Tube is a preformed closed cell physically crosslinked polyolefin foam tube insulation with reinforced foil facing for steel, iron and copper pipes. Firestopping systems now approved include leading products such as BOSS Fire® Transit Box, MaxiCollars™, UniWrap®, P40-MAK Wrap, Thermal Defence Wrap, FireMastic-300™ & FireSilicone-EMA™. Approved systems also include allowance for oversized apertures by using cavity barrier BOSS Batt.

### BOSS PRODUCTS:

MaxiCollar™	FireMastic-300™	BOSS Fire® Transit Box	P40-MAK Wrap	UniWrap®	Thermal Defence Wrap	Boss Batt	FireSilicone-EMA™
							

*Each project and/or application may have specific requirements and you should investigate these carefully. Ensure that you have read and understood the appropriate certification relative to your needs, and ensure you seek acceptance from the Certifying Authority or compliance inspector before installation. For updates of BOSS' certification please contact BOSS Technical Services on +61 2 9531 8591.*

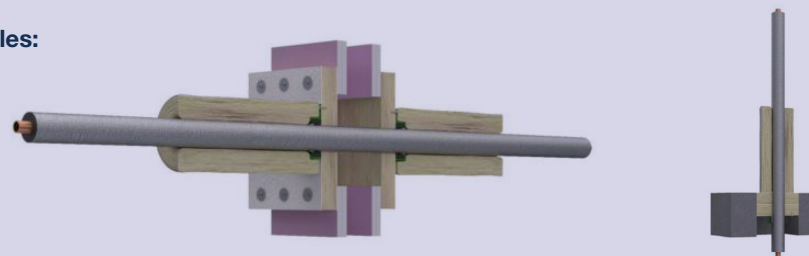
Individual Lagged Non-Combustible Pipes - THERMOBREAK® Tube Pipe Insulation

ELEMENT	SUBSTRATE	FRL	SERVICE TYPE	SERVICE SIZE	PRIMARY FIRE STOPPING ELEMENTS	SECONDARY FIRE STOPPING ELEMENT	REPORT REF	SYSTEM
Walls	<p><b>Min 96mm or 116mm Thick Walls:</b>                      -FR Plasterboard / GIB                      -Shaftwall / Shaftliner                      -Concrete                      -Solid &amp; Hollow Masonry                      -AFS</p> <p><b>Walls with Build Up to Min 96mm or 116mm:</b>                      -Speedpanel &amp; Korok                      -AAC / Hebel                      -Pronto Panel                      -Supa Panel</p> <p><b>Build up options - 100mm clearance from perimeter of service:</b>                      -BOSS Batt                      -FR Plasterboard                      -Calcium Silicate Board                      -Shaftwall / Shaftliner</p>	<p>Walls must be minimum 96mm thick: -/90/90</p> <p>OR</p> <p>Walls must be minimum 116 thick: -/120/120</p>	Thermobreak Lagged Steel, Copper & Iron Pipes	32mm - 80mm Ø	<p><b>MaxiCollar™</b>                      - Fitted Both Sides  <b>FireMastic-300™</b>                      - Max 5mm wide x Min 5mm depth flush finish                      - Both Sides</p>	<p><b>P40-MAK Wrap</b>                      - 300mm Both Sides</p>	FAS190346 R1.4	
				80mm - 159mm Ø	<p><b>MaxiCollar™</b>                      - Fitted Both Sides  <b>FireMastic-300™</b>                      - Max 5mm wide x Min 5mm depth flush finish                      - Both Sides</p>	<p><b>P40-MAK Wrap</b>                      - 600mm Both Sides</p>		
				32mm - 80mm Ø	<p><b>UniWrap®</b>                      - Fitted Both Sides  <b>FireMastic-300™</b>                      - Max 5mm wide x Min 5mm depth flush finish                      - Both Sides</p>	<p><b>P40-MAK Wrap</b>                      - 300mm Both Sides</p>		
				80mm - 159mm Ø	<p><b>UniWrap®</b>                      - Fitted Both Sides  <b>FireMastic-300™</b>                      - Max 5mm wide x Min 5mm depth flush finish                      - Both Sides</p>	<p><b>P40-MAK Wrap</b>                      - 600mm Both Sides</p>		
Floors	Min 150mm Concrete	-/120/120	Thermobreak Lagged Steel, Copper & Iron Pipes	32mm Ø	<p><b>MaxiCollar™</b>                      - Fitted Underside Only  <b>FireMastic-300™</b>                      - 10mm x 10mm fillet on top side only</p>	<p><b>P40-MAK Wrap</b>                      - 300mm Top Side Only</p>	FAS190346 R1.4	
				32mm - 159mm Ø	<p><b>MaxiCollar™</b>                      - 10mm x 10mm fillet on top side only                      - Annular Gap Max 5mm wide x Min 25mm depth both sides</p>	<p><b>P40-MAK Wrap</b>                      - 600mm Top Side Only</p>		
				32mm Ø	<p><b>UniWrap®</b>                      - Fitted Top &amp; Bottom Side  <b>FireMastic-300™</b>                      - 10mm x 10mm fillet on top side only</p>	<p><b>P40-MAK Wrap</b>                      - 300mm Top Side Only</p>		
				32mm - 159mm Ø	<p><b>UniWrap®</b>                      - 10mm x 10mm fillet on top side only                      - Annular Gap Max 5mm wide x Min 25mm depth both sides</p>	<p><b>P40-MAK Wrap</b>                      - 600mm Top Side Only</p>		

Thermobreak tube insulation lagging thickness to be 30mm to 50mm in both walls and floors. All of the above systems can be installed into BOSS Batt when the aperture is oversized.  
 -2 x 50mm Layers

For seismic purposes, Steel & Copper pipes can also penetrate 100mm Flexi-Batt coated with FlexiCoat-MAK using a MaxiCollar™, FireMastic-300™ & P40-MAK Wrap:  
 - Steel & Copper Pipes up to 80mm with continuous 50mm Thermobreak Lagging with 300mm wide P40-MAK Wrap to achieve FRL -/120/120 . Ref (FAR4572).  
 - Steel & Copper Pipes up to 50mm with continuous 35mm Thermobreak Lagging with 300mm wide P40-MAK Wrap to achieve FRL -/120/120 . Ref (FAR4572).

Examples:



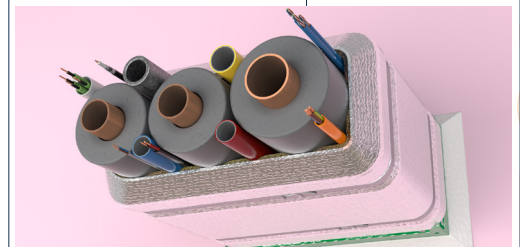
**Individual Lagged Non-Combustible Pipes - THERMOBREAK® Tube Pipe Insulation – Used when space around service is extra tight.**

ELEMENT	SUBSTRATE	FRL	SERVICE TYPE	SERVICE SIZE	PRIMARY FIRE STOPPING ELEMENTS	SECONDARY FIRE STOPPING ELEMENT	REPORT REF
Walls	<b>Min 100mm Thick:</b> -FR Plasterboard / GIB -Concrete -Solid & Hollow Masonry  <b>Walls with Build Up to 100mm:</b> -Speedpanel & Korok -AAC / Hebel -Pronto Panel, Supa Panel  <b>Build up options - 100mm clearance from perimeter of service:</b> -BOSS Batt -FR Plasterboard	-/90/90	Thermobreak Lagged Steel & Iron Pipes	32mm - 113mm Ø	UniWrap® - Fitted Both Sides  FireMastic-300™ or FireSilicone-EMA™ - 50mm x 50mm fillet both sides - Annular Gap Min 25mm depth both sides	Thermal Defence Wrap - 300mm Both Sides	FAS200332 R1.0
				113mm - 159mm Ø		Thermal Defence Wrap - 600mm Both Sides	
			Thermobreak Lagged Copper Pipes	32mm - 54mm Ø		Thermal Defence Wrap - 300mm Both Sides	
				54mm - 159mm Ø		Thermal Defence Wrap - 600mm Both Sides	
Floors	Min 150mm Concrete	-/120/120	Thermobreak Lagged Steel, Copper & Iron Pipes	32mm - 159mm Ø	UniWrap® - Fitted Both Sides FireMastic-300™ or FireSilicone-EMA™ - 20mmx20mm fillet top side only - Annular Gap Max 20mm Min 25mm depth top side	Thermal Defence Wrap - Double wrapped top side only. -First layer must extend 600mm from face of slab. -Second layer must extend 300mm from face of slab.	FAS200332 R1.0

Thermobreak tube insulation lagging thickness to be 30mm to 50mm in both walls and floors . All of the above systems can be installed into BOSS Batt when the aperture is oversized. - 2 x 50mm Layers

**Mixed Bundles of Lagged Non-Combustible Pipes - THERMOBREAK® Tube Pipe Insulation**

ELEMENT	SUBSTRATE	FRL	SERVICE TYPE	SERVICE SIZE	PRIMARY FIRE STOPPING ELEMENTS	SECONDARY FIRE STOPPING ELEMENT	REPORT REF
Walls, Floor Slabs, Ceiling/ Floor Systems	<b>Walls (Minimum 100mm Thick):</b> -Steel or Timber Framed Fire Rated Plasterboard Lined Walls - Blank Infill Panel of BOSS Batt - Concrete, Solid or Hollow Masonry - AAC, Hebel, Pronto Panel, Dincel, AFS - Speedpanel, Korok, Supapanel - Shaftliner / Shaftwall /Partiwall / Party Wall / IntRwall - INEX Wall Systems  <b>Where wall is less than 100mm it may be increased by locally applied lining:</b> - Fire Rated Plasterboard - BOSS Batts or - Increased fillet size of fire rated sealant or use of P40-MAK Wrap in accordance with Branz certification.  <b>Concrete Slabs or Ceiling / Floor Systems:</b> - Concrete Floor Slabs - Minimum 70mm Thick for 60 min Fire Rating - Concrete Floor Slabs - Minimum 110mm Thick for 90 & 120 min Fire Rating - Ceiling Floor Systems – Minimum 235mm Thick	Up to -/120/120	Multiple Thermobreak Lagged Copper Pipes – (Minimum 19mm Thick Lagging)  Can be mixed with other approved services	Up to 32mm Ø	BOSS Fire® Transit Box & FireMastic-300™.	P40-MAK Wrap - Walls - May or may not be required depending on FRL desired and services passing through substrate. If required applied to both sides of wall. - Concrete Slabs & Ceiling/ Floor Systems – Required on top side of slab or ceiling floor system only. Always refer to relevant test certification.	FTC 843



All of the above systems can be installed into BOSS Batt when the aperture is oversized. - 2 x 50mm Layers