CERTIFICATE OF APPROVAL No CF 420A

ETEX BUILDING PERFORMANCE LTD

Gordano House, Marsh Lane, Easton-in-Gordano, Bristol, BS20 0NE United Kingdom Tel: 0800 145 6033

Have been assessed against the requirements of the Technical Schedule(s) denoted below and are approved for use subject to the conditions appended hereto:

CERTIFIED PRODUCT Etex Building Performance Ltd Supalux Partitions

TECHNICAL SCHEDULE TS49 Vertical and Horizont

TS49 Vertical and Horizontal Separating Elements

Signed and sealed for and on behalf of Warringtonfire Testing and Certification Limited

Paul Duggan Certification Manager



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CERTIFICATE No CF 420A ETEX BUILDING PERFORMANCE LTD

Supalux Partitions

- 1. This certification is provided to the client for their own purposes and we cannot opine on whether it will be accepted by Building Control authorities or any other third parties for any purpose.
- This approval relates to the use of the above partitions in providing fire resistance of up to 240 minutes integrity and insulation (depending on specification), as defined in BS EN 1364-1: 2015.
- 3. The partitions are approved on the basis of:
 - i) Initial type testing
 - ii) Audit testing at the frequency specified in TS49
 - iii) A design appraisal against TS49
 - iv) Inspection and surveillance of factory production control
 - v) Production surveillance under ISO 9001:2015
- 4. The partition assemblies comprise Supalux board screwed to and supported by a timber or steel framework and, in some cases, fitted with stone wool insulation (specification detailed below) within the cavity of the partition.
- 5. This approval is applicable to insulated and uninsulated Supalux partitions as described within this Certificate.
- 6. The Supalux partitions shall be mechanically fixed to wall and/or floor constructions or structural steel members having a fire resistance of at least the same period as the partition.
- 7. The approval relates to on going production. Product and/or its immediate packaging is identified with the manufacturers' name, the product name or number, the CERTIFIRE name or name and mark, together with the CERTIFIRE certificate number and application where appropriate.

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CERTIFICATE No CF 420A ETEX BUILDING PERFORMANCE LTD

Supalux Timber Stud Partition Assemblies

This approval relates to Supalux timber stud partition assemblies in terms of the integrity and insulation performance criteria of BS EN 1364-1: 2015.

30 minutes

The minimum specification for the Supalux partition system is as follows:

- Timber C16 CLS Studs, 63mm deep x 38mm thick, at maximum 610mm centres.
- frame Timber noggings, the same size as the studs, at horizontal board joints.
 - Perimeter timbers are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all-steel anchor bolts (or equivalent to suit the type of surrounding construction) at 600mm nominal centres.
- Boards Supalux board of nominal thickness 6mm on each face of timber framework.
 - Boards are fixed using 38mm-long round head steel nails at 300mm nominal centres. Nails adjacent to board edges are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces.
 - Boards are butt jointed or flush jointed.

Stone wool Rockwool Flexi Acoustic Slab is fitted tightly between the studs in the cavity of the partition. The minimum specification for the Rockwool Flexi Acoustic Slab is 60mm thick x 33kg/m³ density.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

60 minutes

The minimum specification for the Supalux partition system is as follows:

- Timber C16 CLS Studs, 63mm deep x 38mm thick, at maximum 610mm centres.
- frame Timber noggings, the same size as the studs, at horizontal board joints.
 - Perimeter timbers are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts (or equivalent to suit the type of surrounding construction) at 600mm nominal centres.
- Boards Supalux board of nominal thickness 9mm on each face of timber framework.
 - Boards are fixed using Siniat M3.5 x 50 mm High Thread Screws at 300mm nominal centres. Screws adjacent to board edges are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces.
 - Boards are butt jointed or flush jointed.

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Supalux Timber Stud Partition Assemblies

Stone Rockwool RW3 is fitted tightly between the studs in the cavity of the partition. The minimum specification for the Rockwool RW3 is 60mm thick x 60kg/m³ density.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

90 minutes

The minimum specification for the Supalux partition system is as follows:

- Timber C16 CLS Studs, 89mm deep x 38mm thick, at maximum 610mm centres.
- frame Timber noggings, the same size as the studs, at horizontal board joints.
 - Perimeter timbers are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts (or equivalent to suit the type of surrounding construction) at 600mm nominal centres.
- Boards Supalux board of nominal thickness 9mm on each face of timber framework.
 - Boards are fixed using Siniat M4.2 x 65mm High Thread Screws at 300mm nominal centres. Screws adjacent to board edges are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces.
 - Boards are butt jointed or flush jointed.
- Rockwool RWA45 is fitted tightly between the studs in the cavity of the partition.
 The minimum specification for the Rockwool RWA45 is 2No. 40mm thick x 45kg/m³ density.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Timber Stud Partition Assemblies

120 minutes

The minimum specification for the Supalux partition system is as follows:

- Timber C16 CLS Studs, 89mm deep x 38mm thick, at maximum 610mm centres.
- frame Timber noggings, the same size as the studs, at horizontal board joints.
 - Perimeter timbers are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts. (or equivalent to suit the type of surrounding construction) at 600mm nominal centres.
- Boards Supalux board of nominal thickness 15mm on each face of timber framework.
 - Boards are fixed using 63mm-long round head steel nails or Siniat M4.2 x 65mm High Thread Screws at 300mm nominal centres. Nails or screws adjacent to board edges are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces.
 - Boards are butt jointed or flush jointed.
- Rockwool SL960 is fitted tightly between the studs in the cavity of the partition. The minimum specification for the Rockwool SL960 is 2No. 40 mm thick x 100kg/m³ density. The joints between layers are staggered by a minimum 150mm.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Steel Stud Partition Assemblies – Integrity and Insulation

This approval relates to Supalux steel stud partition assemblies in terms of the integrity and insulation performance criteria of BS EN 1364-1: 2015.

30 minutes

The minimum specification for the Supalux partition system is as follows:

Steel Siniat UT52/RX U Head and Base Track, 52 mm web x 27mm flanges x 0.5mm thick. frame Siniat CS50/Rx C-studs, 50mm web x 34/36mm flanges x 0.5mm thick, at maximum 610mm centres. Perimeter channels are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts (or equivalent to suit the type of surrounding construction) at 600mm nominal centres. Boards Supalux board of nominal thickness 9mm on each face of steel framework. Boards are screwed to the studs and perimeter channels with Siniat M3.5 x 25mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces. Horizontal board joints are backed by a Supalux cover strip, 75mm wide x 9mm thick, fastened using Siniat M3.5 x 25mm self-tapping drywall screws at nominal 300mm centres on both sides of the joint. Boards are butt jointed or flush jointed. Rockwool Flexi Acoustic Slab is fitted tightly between and filling the studs in the Stone cavity of the partition. The minimum specification for the Rockwool Flexi Acoustic wool Slab is 50mm thick x 33kg/m³ density.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Steel Stud Partition Assemblies – Integrity and Insulation

60 minutes

The minimum specification for the Supalux partition system is as follows:

Steel frame

Boards

- Siniat UT52/Rx U Head and Base Track, 52mm web x 27mm flanges x 0.5mm thick.
 - Siniat CS50/Rx C-studs, 50mm web x 34/36mm flanges x 0.5mm thick, at maximum 610mm centres.
- Perimeter channels are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts (or equivalent to suit the type of surrounding construction) at 600mm nominal centres.

 Supalux fillets, 50mm wide x 9mm thick, covering the studs and channels on both faces of the steel framework. Fillets fastened with Siniat M3.5 x 25mm selftapping drywall screws at maximum 300mm centres.

- Supalux board of nominal thickness 9mm on each face of steel framework.
- Boards are screwed to the studs and perimeter channels, through the fillets, with Siniat M3.5 x 32mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces.
- Horizontal board joints are backed by a Supalux cover strip, 75mm wide x 9mm thick, fastened using Siniat M3.5 x 32mm High Thread screws at nominal 300mm centres on both sides of the joint.
- Boards are butt jointed or flush jointed.
- Stone wool Rockwool RWA45 is fitted tightly between and filling the studs in the cavity of the partition. The minimum specification for the Rockwool RWA45 is 60mm thick x 45kg/m³ density.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Steel Stud Partition Assemblies – Integrity and Insulation

120 minutes

The minimum specification for the Supalux partition system is as follows:

Steel frame	 Head/base track,100mm web x 40mm flanges x 0.6mm thick. C-studs, 98.8mm web x 47/49mm flanges x 0.6mm thick, at maximum 610mm centres.
	 Perimeter channels are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts (or equivalent to suit the type of surrounding construction) at 500mm nominal centres.
Boards	 Supalux fillets, 75mm wide x 12mm thick, covering the studs and track on both faces of the steel framework. Fillets fastened with Siniat M3.5mm x 25mm self- tapping drywall screws at any convenient centres.
	 Supalux board of nominal thickness 12mm on each face of the steel framework. Boards are screwed to the studs and perimeter channels with Siniat M3.5 x 32mm self-tapping drywall screws at 250mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces. Horizontal board joints are backed by a Supalux cover strip, 75mm wide x 12mm thick, fastened using Siniat M3.5 x 32mm High Thread Screws at nominal 250mm centres on both sides of the joint.
	 Boards are butt jointed or flush jointed.

Stone wool • Rockwool RW5 is fitted tightly between and filling the studs in the cavity of the partition. The minimum specification for the Rockwool RW5 is 2No. 50mm thick x 100kg/m³ density. The wool is fitted in two layers with the joints between layers staggered by minimum 150mm.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Steel Stud Partition Assemblies – Integrity and Insulation

240 minutes

The minimum specification for the Supalux partition system is as follows:

Steel frame

Boards

- Ceiling and floor channels, 150mm web x 40mm flanges x 0.6mm thick.
- C-studs, 148mm web x 47/49mm flanges x 0.6mm thick, at maximum 610mm centres.
 - Perimeter channels are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts (or equivalent to suit the type of surrounding construction) at 600mm nominal centres.
- Two layers of Supalux board of nominal thickness 12mm on each face of steel framework.
 - Boards are screwed to the studs and perimeter channels with Siniat M3.5 x 32mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between layers.
 - Horizontal board joints are staggered between layers by at least 600mm. The outer layer board joints are fastened to the inner layer of Supalux using Siniat M3.5 x 32mm high thread screws at nominal 300mm centres on both sides of each joint.
 - Inner layer boards are butt jointed. Outer layer boards are butt jointed or flush jointed.
- ProRox SL 960 UK is fitted tightly between and filling the studs in the cavity of the partition. The minimum specification for the ProRox SL 960 UK is 3No. 50mm thick x 100kg/m³ density. The wool is fitted in three layers with the joints between layers staggered by minimum 150mm.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Steel Stud Partition Assemblies – Integrity only

This approval relates to Supalux steel stud partition assemblies in terms of the integrity performance criteria of BS EN 1364-1: 2015. **Fire exposure from board side only.**

Up to 240 minutes

The minimum specification for the Supalux partition system is as follows:

- Steel Siniat UT52/Rx U Head and Base Track, 52mm web x 27mm flanges x 0.5mm thick.
- frame Siniat CS50/Rx C-studs, 50mm web x 34/36mm flanges x 0.5mm thick, at maximum 610mm centres.
 - Perimeter channels are bedded on intumescent sealant and fastened to the surrounding construction with minimum M6 concrete screws or all steel anchor bolts(or equivalent to suit the type of surrounding construction) at 600mm nominal centres.
- Boards Supalux board of nominal thickness 12mm on the fire face of steel framework.
 - Boards are screwed to the studs and perimeter channels, with Siniat M3.5 x 25mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners. Vertical board joints coincide with the studs and are staggered between faces.
 - Horizontal board joints are backed by a Supalux cover strip, 100mm wide x 12mm thick, fastened using Siniat M3.5 x 25mm self-tapping drywall screws at nominal 300mm centres on both sides of the joint.
 - Boards are butt jointed or flush jointed.

The maximum height of the partition system is 4.0m. The length of the partition system is unrestricted.

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Supalux Solid Partition Assemblies – Integrity and Insulation

This approval relates to Supalux solid partition assemblies in terms of the integrity and insulation performance criteria of BS EN 1364-1: 2015. Fire exposure from either face.

30 minutes

The minimum specification for the Supalux partition system is as follows:

- Steel
 - Perimeter angles, 25mm x 50mm x 0.7mm thick.
- Perimeter angles are bedded on intumescent sealant and fastened to the angles surrounding construction, through the 25mm leg, with M6 all-steel anchor bolts (or equivalent to suit the type of surrounding construction) at 500mm nominal centres.
- Supalux boards 15mm + 15mm nominal thickness. Both layers are fastened to one Boards face of the perimeter angle.
 - The two layers of Supalux board are independently fixed to the perimeter angles with Siniat M3.5 x 25mm and 42mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners.
 - Vertical board joints are staggered by at least 600mm between layers. Joints in the outer layer are stitched to the inner layer using 35mm staples at 150mm centres. Joints in the inner layer are stitched to the outer layer using 35mm staples but applied from the outer face.
 - Boards are butt jointed. None.
- Stone

wool

The maximum height of the partition system is 2.44m. The length of the partition system is unrestricted.

60 minutes

The minimum specification for the Supalux partition system is as follows:

- Steel Perimeter angles, 25mm x 50mm x 0.7mm thick.
- angles Perimeter angles are bedded on intumescent sealant and fastened to the surrounding construction, through the 25mm leg, with M6 all-steel anchor bolts (or equivalent to suit the type of surrounding construction) at 500mm nominal centres.
- Supalux boards 20mm + 20mm nominal thickness. Both layers are fastened to one Boards face of the perimeter angle.
 - The two layers of Supalux board are independently fixed to the perimeter angles . with Siniat M3.5 x 32mm and M4.2 x 65mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners.

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Supalux Solid Partition Assemblies – Integrity and Insulation

- Vertical board joints are staggered by at least 600mm between layers. Joints in the outer layer are stitched to the inner layer using 35mm staples at 150mm centres. Joints in the inner layer are stitched to the outer layer using 35mm staples but applied from the outer face.
- Boards are butt jointed.
- Stone None

wool

The maximum height of the partition system is 2.5m. The length of the partition system is unrestricted.

120 minutes

The minimum specification for the Supalux partition system is as follows:

- Steel Perimeter angles, 25mm x 50mm x 0.7mm thick.
- angles Perimeter angles are bedded on intumescent sealant and fastened to the surrounding construction, through the 25mm leg, with M6 all-steel anchor bolts (or equivalent to suit the type of surrounding construction) at 500mm nominal centres.
- Boards
 - Supalux boards 25mm + 25mm nominal thickness. Both layers are fastened to one face of the perimeter angle.
 - The two layers of Supalux board are independently fixed to the perimeter angles with Siniat M3.5 x 38mm and M4.2 x 65mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners.
 - Vertical board joints are staggered by at least 600mm between layers. Joints in the outer layer are stitched to the inner layer using 50mm staples at 150mm centres. Joints in the inner layer are stitched to the outer layer using 50mm staples but applied from the outer face.
 - Boards are butt jointed.

The maximum height of the partition system is 2.5m. The length of the partition system is unrestricted.

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Supalux Solid Partition Assemblies – Integrity and Insulation

240 minutes

The minimum specification for the Supalux partition system is as follows:

- Steel Perimeter angles, 25mm x 50mm x 0.7mm thick.
- Perimeter angles are bedded on intumescent sealant and fastened to the surrounding construction, through the 25mm leg, with M6 all-steel anchor bolts (or equivalent to suit the type of surrounding construction) at 500mm nominal centres.
- Boards Three layers of Supalux board each 25mm nominal thickness. The first two layers are fastened to one face of the perimeter angle.
 - The first two layers of Supalux board are independently fixed to the perimeter angles with Siniat M3.5 x 38mm and M4.2 x 65mm self-tapping drywall screws at 300mm nominal centres. All screws are positioned nominal 12mm from board edges and 40mm from board corners.
 - Vertical board joints are staggered by at least 600mm between layers. Joints in the 2nd layer are stitched to the 1st layer using 50mm staples at 450mm centres. Joints in the 1st layer are stitched to the 2nd layer using 50mm staples but applied from the 2nd layer face.
 - The 3rd layer is stitched to the 2nd layer only using 50mm staples at 200mm centres around the perimeter and at mid-width of the board.
 - Boards are butt jointed.
- Stone None.

wool

The maximum height of the partition system is 2.5m. The length of the partition system is unrestricted.

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