

Loss Prevention Certification Board

LPCB

This is to certify

**Stobich Brandschutz GmbH
Pracherstieg 6, D – 38644 Goslar, Germany**

is authorised to use the LPCB mark in association with the product(s) listed in this certificate and appendix.

**ECClos-Q, ECClos-S and ECClos-Flex
conveyor system closures**

which have complied with the requirements of the following:

**LPS 1056: Issue 6.1: Test and Evaluation Requirements for the LPCB
Approval and Listing of Fire Doorsets, Lift Landing Doors and Shutters**

Certificate No. 1064a

Issue No. 02

Date of Issue 24 November 2011

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Signed on behalf of LPCB



Name: T. Baker



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APPENDIX TO CERTIFICATE NO. 1064a

Stobich Brandschutz GmbH

Product Name	Supporting construction	Penetration sealing	Max leaf height (m)	Max leaf width (m)	Max Leaf area (m ²)	Fire Resistance (min) BS EN 1366-7 Integrity / Insulation	Cert No.
ECClos-Q conveyor system closure	160mm thick Plasterboard partition (see note 1)	See note 2	1.377 (note 3)	1.940 (note 3)	2.343 (note 3)	120/120	1064a/01
ECClos-Q conveyor system closure	200mm blockwork wall (see note 4)	See note 5 See note 6	1.377 (note 3)	1.940 (note 3)	2.343 (note 3)	240/120	1064a/02
ECClos-S conveyor system closure (horizontally closing)	200mm aerated concrete	See note 7	3.177	3.374	10.719	120/90	1064a/03
ECClos-S conveyor system closure (horizontally closing)	200mm aerated concrete	See note 7	4.765	5.061	16.079	120/0	1064/03

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ECClos-S conveyor system closure (vertically closing)	160mm thick Plasterboard partition (see note 1)	See note 8	3.187	3.374	10.753	120/120`	1064a/04
ECClos-S conveyor system closure (vertically closing)	160mm thick Plasterboard partition (see note 1)	See note 8	4.780	5.061	16.129	120/0	1064a/04
ECClos-S conveyor system closure (vertically closing)	240mm masonry	See note 9	4.780	5.061	16.129	120/90	1064a/05
ECClos-Flex conveyor system closure (vertically closing)	200mm aerated concrete	See note 11	3100	3652	11.321	90/0	1064a/06

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Product Name	Supporting construction	Penetration sealing	Max leaf height (m)	Max leaf width (m)	Max Leaf area (m ²)	Fire Resistance (min) BS EN 1366-7 Integrity / Insulation	Cert No.
ECClos-Flex conveyor system closure (vertically closing)	200mm aerated concrete	See note 12	3100	3652	11.321	60/0	1064a/06
ECClos-Flex conveyor system closure (vertically closing)	200mm aerated concrete	See note 13	3100	3652	11.321	60/0	1064a/06

Notes:

1. LPCB Ref 1064a/01 – Standard flexible supporting construction according to BS EN 1366-7, table no 3 giving a fire resistance of 120 minutes, a cross bar type steel frame consisting of two uprights spanning from the floor to ceiling with a horizontal steel spanning between the sections (all 100mm x 100mm x 4mm thick) is located within the partition, around the structural opening to bear the load of the conveyor system. The conveyor system closure shall be face fixed and may be located on the exposed or unexposed side.

Notes continued overleaf

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Notes continued:

2. LPCB Ref 1064a/01 where the conveyor track penetrates the 160mm thick structural opening 1700mm (w) x 1500mm (h) a blockwork wall/panel is formed below (built from the finished floor level), minimum density 350kg/m³, 150mm thick, 800mm high and 2060mm wide, the top wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed to the cross bar steel frame uprights (within the partition) at 200mm centres. A nominal 175mm opening is left around the conveyor track and blockwork wall/panel, this is built up with layers of Promatet-H25/H20/H15/H12 and H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement/expansion.
3. LPCB ref 1064a/01 and 1064a/02 The closure leaf is 'T' shaped, and may be increased by a maximum of 15% in height and/or 15% in width provided the surface area of the leaf is not increased by more than 20% from the dimensions given in the table above. The leaf may not be reduced by more than 50% in width and 75% in height.
4. LPCB ref 1064a/02 – Standard low density rigid wall construction according to BS EN 1366-7, table no 2, with a minimum density of 613 kg/m³. The conveyor system closure shall be face fixed and may be located on the exposed or unexposed side.
5. LPCB ref 1064a/02 where the conveyor track penetrates the 200mm thick structural opening 1700mm (w) x 1500mm (h), a blockwork wall/panel is formed below minimum density 350kg/m³, 150mm thick and supported 300mm above the finished floor level with 4 x 300mm and 1 x 500mm L profile fixing brackets 150mm x 100mm x 10 mm thick with threaded rods and nuts (M10). The top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed back to the 200mm thick wall at 200mm centres. A nominal 175mm opening is left around the conveyor track and blockwork wall/panel, this is built up with layers of Promatect-H25/H20/H15/H12 and H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement/expansion.
6. LPCB ref 1064a/02 the penetration seal may incorporate a cable penetration, with maximum penetration size of 60mm x 220mm x 175mm (thickness x height x depth). The penetration must be lined with 20mm Promatect-H boards and the perimeter of the opening sealed with one layer of Tenmat Firefly 102, all control cables must then individually pass through a mineral wool batt (Rockwool RPB9 minimum density 90kg/m³) which is held in place within the penetration with EMPE glue.

Notes continued overleaf

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Notes continued:

7. LPCB ref No. 1064a/03 where the conveyor track penetrates the 200mm thick supporting construction a recess 175mm deep is formed in the base of the 3000mm x 3000mm structural opening, a blockwork wall/panel 150mm thick is formed supported 260mm below the structural opening with 5 x 500mm and 2 x 300mm L profile fixing brackets 150mm x 100mm x 10mm thick with threaded rods and nuts (M10). The top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed back to the 200mm thick supporting construction. A nominal 60mm gap is left around the vertical sides with a nominal 120mm gap left on the underside of the conveyor track and blockwork wall, this is built up with layers of Promatect-H25/H20/H15, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement /expansion. The conveyor system closure shall be face fixed and may be located on the exposed side only.
8. LPCB ref No. 1064a/04 where the conveyor track penetrates the 160mm thick supporting construction 3000mm (w) x 3000mm (h) a blockwork wall/panel is formed below (built from the finished floor level), minimum density 350kg/m³, 150mm thick, 1240mm high and 3545mm wide, the top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed to the cross bar steel frame uprights (within the partition) at 100mm centres. A recess positioned centrally 388mm deep x 1066mm long is formed on the top of the wall to accommodate the conveyor. A nominal 200mm opening is left around the conveyor track and blockwork wall/panel, this is built up with layers of Promatect-H25/H20/H15/H12 and H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement /expansion. The conveyor system closure shall be face fixed and may be located on the un-exposed side only.
9. LPCB ref No. 1064a/05 where the conveyor track penetrates the 240mm thick supporting construction a recess 110mm deep x 695mm long is formed in the base of the 3000mm x 3000mm structural opening, a blockwork wall/panel 150mm thick is formed and supported 480mm below the structural opening with 5 x 500mm and 2 x 300mm L profile fixing brackets 150mm x 100mm x 10mm thick with threaded rods and nuts (M10). The top of the wall/panel is lined with a 20mm thick layer of Promatect-H board with the vertical edges protected with 100mm x 25mm x 3mm thick steel angles through fixed back to the 240mm supporting construction. A nominal 60mm gap is left around the vertical sides and underside of the conveyor track and blockwork wall, this is built up with layers of Promatect-H25/H20/H15/H12/H10, Promaseal-PL boards and Tenmat Firefly 102. Two 35mm lateral gaps are left between the boards and blockwork wall which are friction fitted with Rockwool type RPB9 minimum density 90kg/m³ to allow movement /expansion. The conveyor system closure shall be face fixed and may be located on the exposed side only.

Notes continued overleaf

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Notes continued:

10. LPCB ref No. 1064a/06 The locking mechanism for the ECClos-Flex system is located at the base of the structural opening and is fixed to the supporting construction via a Z section and continuous 10mm-thick x 268mm high Durasteel plate section. The conveyor system closure shall be face fixed and may be located on the exposed side only.
11. LPCB ref No. 1064a/06 The chain conveyor track system where it penetrates the locking mechanism (see note 10) consists of a C profile 105 x 56 x 3mm surrounded on three sides with 12.5mm fireproof gypsum plaster board through fixed to Durasteel board using brackets and 5mm blind steel rivets, the inside of the C section is packed with layers of intumescent fabric (Heliotex EW 120), or alternatively a C profile 105 x 56 x 3mm surrounded by two layers of intumescent fabric (Heliotex EW 120), fixed using metal strips to the Durasteel board.
12. LPCB ref No. 1064a/06 The belt conveyor track system (450mm x 105mm) where it penetrates the locking mechanism (see note 10) is protected up to a depth of 70mm with calcium silicate boards which are fastened to the Durasteel locking mechanism using brackets and 5mm thick blind steel rivets. Where there are gaps between the conveyor track and the calcium silicate boards (approx 4mm) they are lined with a layer of Tenmat firefly 102.
13. LPCB ref No. 1064a/06 The chain conveyor track system where it penetrates the locking mechanism (see note 10) consists of a C profile 105 x 56 x 3mm surrounded on three sides with mineral wool minimum density 150kg/m³, the mineral wool has a 20mm deep channel cut out and is inserted tightly onto the Durasteel board, the inside of the C section is packed with mineral wool, where there are gaps between the conveyor track and mineral wool (approx 4mm) they are lined with a layer of Tenmat firefly 102.

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