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General part

Technical Assessment Body issuing the European Technical Assessment	Österreichisches Institut für Bautechnik (OIB) Austrian Institute of Construction Engineering
Trade name of the construction product	FAA-HT-1 / FAA-ST-1
Product family to which the construction product belongs	Kit for closure system for conveyor systems
Manufacturer	Hodapp GmbH & Co. KG Großweierer Straße 77 77855 Achern GERMANY
Manufacturing plant	Hodapp GmbH & Co. KG Großweierer Straße 77 77855 Achern GERMANY Tortec Brandschutztor GmbH Imling 10 4902 Wolfsegg am Hausruck AUSTRIA
This European Technical Assessment contains	98 pages including Annexes A-1 to D-4 which form an integral part of this assessment
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Specific parts

1 Technical description of the product

"FAA-HT-1" / "FAA-ST-1" is a kit to be used as closure system for conveyor systems based on the following components. The closure system for discontinued and continued conveyor systems is designed to close vertically (from top to bottom ("FAA-HT-1")) or horizontally (from left to right or from right to left ("FAA-ST-1")) and can be installed at floor level or at raised position.

Components of "FAA-HT-1" / "FAA-ST-1"	Characteristics
Sliding leaf (vertical closing and horizontal closing)	> The sliding leaf consists of 1 to 10 vertically arranged panels (elements). For details see Annex B-1 to Annex B-4 and Annex C-1 to Annex C-3 of the ETA > Sliding leaf width (vertical closing): 708 mm to 7208 mm (outer dimension (TBB); for details see clause 3.1.1 of the ETA and Annex B-10 of the ETA) > Sliding leaf width (vertical closing; without counterweight): 708 mm to 2808 mm (outer dimension (TBB); for details see clause 3.1.1 of the ETA and Annex B-11 of the ETA) > Sliding leaf width (horizontal closing): 754 mm to 4894 mm (outer dimension (TBB); for details see clause 3.1.1 of the ETA and Annex C-8 and Annex C-9 of the ETA) > Sliding leaf height (vertical closing): 571 mm to 6064 mm (outer dimension (TBH); for details see clause 3.1.1 of the ETA and Annex B-16 and Annex B-17 of the ETA) > Sliding leaf height (vertical closing; without counterweight): 571 mm to 2839 mm (outer dimension (TBH); for details see clause 3.1.1 of the ETA and Annex B-16 and Annex B-17 of the ETA) > Sliding leaf height (horizontal closing): 555 mm to 5135 mm (outer dimension (TBH); for details see clause 3.1.1 of the ETA and Annex C-15 and Annex C-17 of the ETA) > Panel thickness: 72 mm > Panel width: 256 mm to 1120 mm (outer dimension (ELB); inner dimension (EDB) = ELB - 25,5 mm; for details see Annex B-10, Annex B-11, Annex B-14 and Annex C-9 and Annex C-12 of the ETA) > Panel height: 555 mm to 6045 mm (outer dimension (ELH); for details see Annex B-16 and Annex B-17 and Annex C-15 to Annex C-17 of the ETA) > Maximum weight of the sliding leaf (vertical closing; including sealing block): 1160 kg > Maximum weight of the sliding leaf (vertical closing; without counterweight; including sealing block): 240 kg > Maximum weight of the sliding leaf (horizontal closing; including sealing block): 2500 kg > The panels are made of two (one per side of the panel) roll-formed cover sheets made of zinc plated steel (thickness 0,75 mm, steel grade S220GD+Z140MA according to EN 10346)

Components of “FAA-HT-1” / “FAA-ST-1”	Characteristics
Sliding leaf (vertical closing and horizontal closing)	> The panels are completely filled with “DRS SANDWICH FIRE BOARD 70 Ei 120” from manufacturer “Knauf Insulation, d.o.o.” (nominal thickness 70 mm; 17 mm mineral wool + 2 layers of gypsum boards 18 mm + 17 mm mineral wool) which are fixed to the cover sheets with “ICEMA® R-145/12” (one-component adhesive based on polyurethane) from manufacturer “H.B. Fuller Austria GmbH” (application quantity 100 g/m²) > The vertical edges of the panels are completely filled with gypsum boards (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 70 mm and 15 mm x 27 mm or 20 mm x 53 mm) > The panels are fixed to each other by C-shaped fixing clamps (on the right side) made of zinc plated steel (thickness 1,5 mm, steel grade S220GD+Z140MA according to EN 10346; including a blind rivet nut (Ø 10 mm)), threaded steel bolts (Ø 10 mm; overall length = width of the sliding leaf; fixed to each other by connecting nuts (Ø 10 mm x 30 mm (length))) with washers and nuts and self-tapping screws (Ø 3,9 mm x 50 mm (length)) > The vertical edges of the sliding leaf are covered by C-shaped profiles made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) which are fixed to the cover sheets of the panels by self-drilling pan head screws (Ø 3,9 mm x 13 mm (length)) or blind rivets (Ø 4,0 mm x 8 mm (length)) > In case of vertical closing sliding leaves the upper horizontal edge of the sliding leaf is completely filled with “MIPROTEC L (400)” from manufacturer “MINERALKA d.o.o” (cross-section 70 mm x 40 mm; dimension of groove 40 mm x 19 mm; within the groove a sheet steel profile made of zinc plated steel (thickness 3,0 mm, steel grade S220GD+Z140MA according to EN 10346) is inserted loosely) which is fixed to the cover sheets of the panels with “ICEMA® R-145/12” (one-component adhesive based on polyurethane) from manufacturer “H.B. Fuller Austria GmbH” (application quantity 100 g/m²) and completely covered with the cover sheets of the panels > In case of horizontal closing sliding leaves the upper horizontal edge of the sliding leaf is completely filled with “MIPROTEC L (400)” from manufacturer “MINERALKA d.o.o” (cross-section 63,4 mm x 20 mm, while in place of the rollers with an axe made of steel the cross-section is 63,4 mm x 33 mm; dimension of groove 37,5 mm x 13 mm; within the groove in place of the rollers with an axe made of steel sheet steel profiles made of zinc plated steel (thickness 3,0 mm, steel grade S220GD+Z140MA according to EN 10346) are inserted loosely and fixed to the cover sheets of the panels with “ICEMA® R-145/12” (one-component adhesive based on polyurethane) from manufacturer “H.B. Fuller Austria GmbH” (application quantity 100 g/m²)) which is fixed to the cover sheets of the panels with “ICEMA® R-145/12” (one-component adhesive based on polyurethane) from manufacturer “H.B. Fuller Austria GmbH” (application quantity 100 g/m²) and completely covered with the cover sheets of the panels

Components of “FAA-HT-1” / “FAA-ST-1”	Characteristics
Sliding leaf (vertical closing and horizontal closing)	> In case of vertical closing sliding leaves the lower horizontal edge is covered by C-shaped profiles made of zinc-plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which are fixed to the cover sheets of the panels by 4 blind rivets per panel (Ø 4,0 mm x 10 mm (length)) or for panels with a width of < 450 mm by 2 blind rivets per panel (Ø 4,0 mm x 10 mm (length)) > The cover sheets on the lower horizontal edge are closed with blind rivets (Ø 4,0 mm x 10 mm (length)); the groove on the lower horizontal edge has a dimension of 28 mm x 18 mm (width x height) > In case of vertical closing sliding leaves alternatively the lower horizontal edge of the sliding leaf can be completely filled with “MIPROTEC L (400)” from manufacturer “MINERALKA d.o.o” (cross-section 70 mm x 450 mm) which is fixed to the cover sheets of the panels with “ICEMA® R-145/12” (one-component adhesive based on polyurethane) from manufacturer “H.B. Fuller Austria GmbH” (application quantity 100 g/m²) and completely covered with the cover sheets of the panels and additionally covered by C-shaped profiles made of zinc-plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which are fixed to the cover sheets of the panels by 4 blind rivets per panel (Ø 4,0 mm x 10 mm (length)) or for panels with a width of < 450 mm by 2 blind rivets per panel (Ø 4,0 mm x 10 mm (length)) > The profiles and cover sheets can be powder coated (thickness ≥ 0,03 mm) > For details see Annex B-10 to Annex B-17, Annex B-20 to Annex B-22 and Annex C-8 to Annex C-20 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-HT-1”	Characteristics
Guide for the sliding leaf (vertical closing)	> The sliding leaf is guided on both vertical edges by guide rails and runs on the lower horizontal edge into a guide rail of the same design > The guide rails consists of a labyrinth profile made of zinc plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with gypsum boards (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 75 mm) and of a U-shaped profile made of zinc plated steel (thickness 1,0 mm, cross-section 15 mm x 87 mm x 15 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with a gypsum board (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 82 mm)

Components of "FAA-HT-1"	Characteristics
Guide for the sliding leaf (vertical closing)	> The vertical guide rail of the left side (except in case of vertical closing sliding leaves without counterweight) is welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm or clinched (Ø 8,4 mm) approx. every 750 mm to one of the two U-shaped profiles (zinc plated steel, thickness 2,0 mm, cross-section 15 mm x 100 mm x 210 mm x 28 mm, steel grade S220GD+Z140MA according to EN 10346) of the closing device (closing weight system); These U-shaped profiles act as a housing for the closing device (closing weight system) and are covered by cover sheets made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) > The vertical guide rail of the right side (and on the left side in case of vertical closing sliding leaves without counterweight) and on the lower horizontal edge is welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm or clinched (Ø 8,4 mm) approx. every 750 mm to a U-shaped profile (zinc plated steel, thickness 2,0 mm, cross-section 32 mm x 66 mm x 130 mm x 20 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with "DRS CRIMP FIRE BOARD D15" from manufacturer "Knauf Insulation, d.o.o"; cross-section 60 mm x 124 mm). This U-shaped profile acts as an additional insulation (insulation profile) > The guide rails, the insulation profile and the U-shaped profiles of the closing device (closing weight system) are covered by cover sheets made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) which are fixed to the profiles by pan head screws (Ø 5,0 mm x 25 mm (length)) > Optionally, the guide rail of the lower horizontal edge can be installed directly on the floor without insulation profile; the cover sheets made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) are fixed to the guide rail by self-drilling pan head screws (Ø 3,9 mm x 13 mm (length)) > The profiles and cover sheets can be powder coated (thickness ≥ 0,03 mm) > For details see Annex B-5 to Annex B-8, Annex B-10 to Annex B-13, Annex B-15, Annex B-16, Annex B-22 and Annex D-1 to Annex D-4 of the ETA

Components of "FAA-ST-1"	Characteristics
Guide for the sliding leaf (horizontal closing)	> The sliding leaf runs on rollers which are hooked on the upper horizontal edge into a guide rail and runs on the vertical edge next to the housing of the closing device (closing weight system) into a guide rail > On each panel on the upper horizontal edge two pairs of rollers with an axe made of steel are installed which are fixed to the panel by threaded pins (Ø 5,0 mm x 6 mm (length)) > The guide rail consists of a labyrinth profile made of zinc plated steel (thickness 3,0 mm, steel grade S220GD+Z140MA according to EN 10346)

Components of "FAA-ST-1"	Characteristics
Guide for the sliding leaf (horizontal closing)	> The front of the guide rail and the mounting profile made of zinc plated steel (thickness 8,0 mm, cross-section 60 mm x 80 mm x 120 mm, steel grade S220GD+Z140MA according to EN 10346) is covered by a steel angle (thickness 1,0 mm, cross-section 26 mm x 175 mm x 4 mm x 20 mm, steel grade S220GD+Z140MA according to EN 10346) that is hooked into an L-shaped steel profile (thickness 2,0 mm, cross-section 85 mm x 120 mm x 60 mm, steel grade S220GD+Z140MA according to EN 10346) and fixed to a fixing profile (thickness 1,5 mm, steel grade S220GD+Z140MA according to EN 10346) by self-drilling pan head screws (Ø 4,8 mm x 32 mm (length)) > The guide rail is fixed to the mounting profile with 1 cup head square neck bolt (Ø 10 mm x 60 mm (length) with washers and nuts) and 2 hexagonal bolts (Ø 10 mm x 50 mm (length) with washers and nuts) per mounting profile > On the top of the guide rail, between the mounting profile, the guide rail is covered with "DRS CRIMP FIRE BOARD D15" from manufacturer Knauf Insulation d.o.o; cross-section 130 mm x 60 mm > The guide rail on the vertical edge next to the housing of the closing device (closing weight system) consists of a labyrinth profile made of zinc plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with gypsum boards (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 75 mm) and of a U-shaped profile made of zinc plated steel (thickness 1,0 mm, cross-section 15 mm x 87 mm x 15 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with a gypsum board (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 82 mm) > The guide rail on the vertical edge next to the housing of the closing device (closing weight system) is welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm or clinched (Ø 8,4 mm) approx. every 750 mm to the U-shaped profile (zinc plated steel, thickness 2,0 mm, cross-section 130 mm x 110 mm, steel grade S220GD+Z140MA according to EN 10346) of the closing device (closing weight system); This U-shaped profile acts as a housing for the closing device (closing weight system); the vertical guide rail and the U-shaped profile of the closing device (closing weight system) are covered by a cover sheet made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is fixed to the vertical guide rail by pan head screws (Ø 5,0 mm x 25 mm (length))

Components of "FAA-ST-1"	Characteristics
Guide for the sliding leaf (horizontal closing)	> In case of a closing device (closing weight system) installed detached on the side opposite to the vertical guide rail, the vertical guide rail is welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm or clinched (Ø 8,4 mm) approx. every 750 mm to a U-shaped profile (zinc plated steel, thickness 2,0 mm, cross-section 32 mm x 66 mm x 130 mm x 20 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with "DRS CRIMP FIRE BOARD D15" from manufacturer "Knauf Insulation, d.o.o"; cross-section 60 mm x 124 mm). This U-shaped profile acts as an additional insulation (insulation profile); the vertical guide rail and the insulation profile are covered by cover sheets made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) which are fixed to the vertical guide rail by pan head screws (Ø 5,0 mm x 25 mm (length)) > In case of closure systems for discontinued conveyor systems installed at raised position a guide rail on the lower horizontal edge has to be installed. The guide rail on the lower horizontal edge consists of a labyrinth profile made of zinc plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with gypsum boards (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 75 mm). The guide rail is welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm or clinched (Ø 8,4 mm) approx. every 750 mm to a U-shaped profile (zinc plated steel, thickness 2,0 mm, cross section 32 mm x 66 mm x 130 mm x 20 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with "DRS CRIMP FIRE BOARD D15" from manufacturer "Knauf Insulation, d.o.o"; cross section 60 mm x 124 mm). This U-shaped profile acts as an additional insulation (insulation profile); the horizontal guide rail and the insulation profile are covered by a cover sheet made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is fixed to the vertical guide rail by pan head screws (Ø 5,0 mm x 25 mm (length)) > The profiles and cover sheets can be powder coated (thickness ≥ 0,03 mm) > For details see Annex C-4 to Annex C-6, Annex C-8, Annex C-9, Annex C-13 to Annex C-18, Annex C-20 and Annex D-1 to Annex D-4 of the ETA

Components of "FAA-HT-1"	Characteristics
Sealing system (vertical closing)	> Between each panel of the sliding leaf and within the groove on the vertical edge of the sliding leaf an intumescent strip "Kerafix® Flexpan 200 NG-A" (with self-adhesive device; without decorative foil) from manufacturer "Rolf Kuhn GmbH" (cross-section 1,8 mm x 10 mm) or "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 10 mm) is attached

Components of "FAA-HT-1"	Characteristics
Sealing system (vertical closing)	> Within the vertical guide rails and the guide rail on the lower horizontal edge an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 40 mm) is attached to each labyrinth profile and an additional intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 25 mm) is attached between the gypsum boards of the labyrinth profile (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 75 mm) and the separating element according to clause 2.1 of the ETA > The upper horizontal edge of the sliding leaf is covered by a labyrinth profile made of zinc plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) and a U-shaped profile made of zinc plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with gypsum boards (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 82 mm) and welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm to the labyrinth profile. On the labyrinth profile on the upper horizontal edge of the sliding leaf a U-shaped profile made of zinc plated steel (thickness 4,0 mm, steel grade S220GD+Z140MA according to EN 10346) is attached. The labyrinth profile and the U-shaped profile is fixed to the sliding leaf by minimum 2 hexagonal socket screws (Ø 10 mm x 70 mm (length) with washers) per panel or for panels with a width of < 450 mm by minimum 1 hexagonal socket screw (Ø 10 mm x 70 mm (length) with washers) per panel > Between the labyrinth profile of the upper horizontal edge of the sliding leaf and the separating element according to clause 2.1 of the ETA an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 40 mm) is attached > On the separating element according to clause 2.1 of the ETA a labyrinth profile made of zinc plated steel (thickness 2,0 mm, cross-section 50 mm x 22 mm x 30 mm x 22 mm x 37 mm x 22 mm, steel grade S220GD+Z140MA according to EN 10346) which is filled completely with fire protective boards "Promatect 100" (density ≥ 850 kg/m³, cross-section 20 mm x 30 mm) from manufacturer "Promat GmbH" is installed > On the upper part of the labyrinth profile two intumescent strips "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 40 mm) and on the lower part of the labyrinth profile an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 25 mm) are attached > For details see Annex B-12 to Annex B-15, Annex B-20 to Annex B-22 and Annex D-1 to Annex D-4 of the ETA

Components of "FAA-ST-1"	Characteristics
Sealing system (horizontal closing)	> Between each panel of the sliding leaf and within the groove on the vertical edge of the sliding leaf an intumescent strip "Kerafix® Flexpan 200 NG-A" (with self-adhesive device; without decorative foil) from manufacturer "Rolf Kuhn GmbH" (cross-section 1,8 mm x 10 mm) or "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 10 mm) is attached > On the upper horizontal edge of each panel an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 10 mm) is attached on each side > Within the guide rail on the vertical edge next to the housing of the closing device (closing weight system) an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 40 mm) is attached to the labyrinth profile > The vertical edge of the sliding leaf opposite to the housing of the closing device (closing weight system) is covered by a labyrinth profile made of zinc plated steel (thickness 2,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is completely filled with gypsum boards (type F according to EN 520, density ≥ 880 kg/m³, cross-section 15 mm x 82 mm). The labyrinth profile is fixed to the sliding leaf by fastening clips made of zinc plated steel (thickness 1,5 mm, steel grade S220GD+Z140MA according to EN 10346) and self-drilling pan head screws (Ø 4,8 mm x 32 mm (length); vertical distance between the fixings ≤ 500 mm) > Between the labyrinth profile of the vertical edge of the sliding leaf opposite to the housing of the closing device (closing weight system) and the separating element according to clause 2.1 of the ETA an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 25 mm) is attached > On the separating element according to clause 2.1 of the ETA on the side of the sliding leaf opposite to the housing of the closing device (closing weight system) a labyrinth profile made of zinc plated steel (thickness 2,0 mm, cross-section 22 mm x 30 mm x 22 mm x 50 mm, steel grade S220GD+Z140MA according to EN 10346) is installed and an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 25 mm or 1,8 mm x 40 mm) is attached > On the labyrinth profile on the side next to the separating element according to clause 2.1 of the ETA an intumescent strip "PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV" (cross-section 1,8 mm x 25 mm) is attached

Components of “FAA-ST-1”	Characteristics
Sealing system (horizontal closing)	> On the sliding leaf, next to the labyrinth profile of the vertical edge of the sliding leaf opposite to the housing of the closing device (closing weight system) intumescent strips “PROMASEAL®-GTSK” (with self-adhesive device; without decorative foil) from manufacturer “Etex Building Performance NV” (cross-section 1,8 x 25 mm and 1,8 mm x 40 mm) are attached > On the separating element according to clause 2.1 of the ETA, below the labyrinth profile of the guide rail, a labyrinth profile made of zinc plated steel (thickness 2,0 mm, cross-section 20 mm x 30 mm x 22 mm x 35 mm x 20 mm, steel grade S220GD+Z140MA according to EN 10346) which is filled completely with fire protective boards “Promatect 100” (density ≥ 850 kg/m³, cross-section 20 mm x 30 mm) from manufacturer “Promat GmbH” is installed > On the lower part of the labyrinth profile one intumescent strip “PROMASEAL®-GTSK” (with self-adhesive device; without decorative foil) from manufacturer “Etex Building Performance NV” (cross-section 1,8 mm x 25 mm) is attached > For details see Annex C-10, Annex C-12 to Annex C-14, Annex C-18, Annex C-20 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-HT-1”	Characteristics
Closing device (closing weight system; vertical closing)	> “FAA-HT-1” is closed via stored mechanical energy (closing weight system and deadweight of the sliding leaf) > The housing of the closing device consists of two U-shaped profiles (zinc plated steel, thickness 2,0 mm, cross-section 15 mm x 100 mm x 210 mm x 28 mm, steel grade S220GD+Z140MA according to EN 10346) which are covered by cover sheets made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346, fixed by self-drilling pan head screws (Ø 3,9 mm x 13 mm (length)). The width of the housing of the closing device is 385 mm, 585 mm or 785 mm (depending on the size of the sliding leaf) > The closing device consists of a counterweight (a housing made of zinc plated steel, thickness 2,0 mm to 4,0 mm, cross-section 364 mm, 564 mm or 764 mm x 203 mm x 270 mm to 4070 mm (depending on the size of the sliding leaf), steel grade S220GD+Z140MA according to EN 10346 and weights made of square steel, thickness 2,0 mm, cross-section 100 mm x 100 mm x 170 mm, steel grade S235JR according to EN 10025-2) which are inserted loosely in the housing) and four suspension ropes (steel cable, ordinary lay, thickness 6,0 mm) with thimbles, rope shackles and rope turnbuckles made of steel which run via four cable pulleys (“Seilrolle mit Doppelrille 210mm” from manufacturer “Etter + Co AG (webi)” made of grey cast iron, fixed to the support profile (cap profile) by hexagonal bolts made of steel (Ø 16 mm x 70 mm (length) with washers); the cable pulleys are covered by consoles made of zinc plated steel (thickness 4,0 mm, steel grade S220GD+Z140MA according to EN 10346), fixed to the support profile (cap profile) by 4 hexagonal socket screws (Ø 8,0 mm x 30 mm (length)) with washers and nuts) that are installed to the support profile (cap profile) made of zinc plated steel (thickness 3,0 mm, cross-section 55 mm x 41 mm x 301 mm x 41 mm x 55 mm, steel grade S220GD+Z140MA according to EN 10346) > Each suspension rope is fixed to the U-shaped profile on the upper horizontal edge of the sliding leaf by 1 hexagonal socket screw (Ø 12 mm x 70 mm (length)) with nuts > The profiles and cover sheets can be powder coated (thickness ≥ 0,03 mm) > For details see Annex B-1, Annex B-3, Annex B-5, Annex B-7, Annex B-10, Annex B-12, Annex B-18, Annex B-20 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-HT-1”	Characteristics
Closing device (closing weight system; vertical closing; without counterweight)	> “FAA-HT-1” can also be closed via stored mechanical energy, only by the weight of the door leaf, without counterweight > For a controlled closure, the gear motor with brake “G13A DM71K4” from manufacturer “KEB Automation GmbH” (additional component; installed to the support profile (cap profile) with a width of 635 mm) is equipped with an eddy current brake from manufacturer “SMW Metallverarbeitung GmbH” > The use of the eddy current brake from manufacturer “SMW Metallverarbeitung GmbH” is limited to sliding leaves with a maximum dimension of 2808 mm x 2839 mm (width (TBB) x height (TBH)) and a maximum weight of 240 kg > For details see Annex B-2, Annex B-4, Annex B-6, Annex B-8, Annex B-19, Annex B-21 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-ST-1”	Characteristics
Closing device (closing weight system; horizontal closing)	> “FAA-ST-1” is closed via stored mechanical energy (closing weight system) > The housing of the closing device consists of a U-shaped profile (zinc plated steel, thickness 2,0 mm, cross-section 130 mm x 110 mm, steel grade S220GD+Z140MA according to EN 10346) which is covered by a cover sheet made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) which is fixed to the vertical guide rail by pan head screws (Ø 5,0 mm x 25 mm (length)) > The closing device consists of closing weights (diameter 100 mm, height 40 mm, 80 mm and 140 mm (depending on the size of the sliding leaf), steel grade S235JR according to EN 10025-2). The closing weights are fixed to each other with threaded pins (Ø 10 mm x 30 mm (length)); on the upper side of the closing weight system a cable pulley made of grey cast iron (Ø 69 mm, thickness 9 mm or thickness 18 mm in case of cable pulleys with a double groove (depending on the size and the weight of the sliding leaf)) from manufacturer “SMW Metallverarbeitung GmbH” is fixed to the closing weight with a threaded pin (Ø 10 mm x 30 mm (length))

Components of “FAA-ST-1”	Characteristics
Closing device (closing weight system; horizontal closing)	> On the vertical edge of the sliding leaf opposite to the housing of the closing device (closing weight system) a rope (steel cable, ordinary lay, thickness 3,0 mm) is fixed to a clamping plate, which is fixed on the upper horizontal edge of the sliding leaf to the sliding leaf by pan head screws (Ø 5,0 mm x 10 mm (length)), with threaded pins (Ø 5,0 mm x 6 mm (length)); the rope runs on the upper horizontal edge of the sliding leaf, through the speed regulator “LR-36-K-160” from manufacturer “Albert Schnetz”, the cable pulley made of grey cast iron (Ø 69 mm, thickness 9 mm or thickness 18 mm in case of cable pulleys with a double groove (depending on the size and the weight of the sliding leaf)) from manufacturer “SMW Metallverarbeitung GmbH” of the closing weight system and is fixed to the speed regulator with thimbles and clamps made of steel; in case of a closing device installed detached on the side opposite to the vertical guide rail an additional cable pulley made of grey cast iron (Ø 69 mm, thickness 9 mm) from manufacturer “SMW Metallverarbeitung GmbH” is installed to the labyrinth profile of the guide rail > Alternatively, the closing device can be installed detached on the side opposite to the vertical guide rail; in this case the sheet steel cover made of zinc plated steel (thickness 1,0 mm, steel grade S220GD+Z140MA according to EN 10346) of the housing of the closing device is fixed to the U-shaped profile (zinc plated steel, thickness 2,0 mm, cross-section 130 mm x 110 mm, steel grade S220GD+Z140MA according to EN 10346) by pan head screws (Ø 3,9 mm x 13 mm (length)) > Optionally (depending on the size and the weight of the sliding leaf) the number of closing devices can be increased; in this case the U-shaped profiles (zinc plated steel, thickness 2,0 mm, cross-section 130 mm x 110 mm, steel grade S220GD+Z140MA according to EN 10346) of the housings of the closing devices are welded (fillet weld, length 10 mm, width 3 mm) approx. every 750 mm to each other > The profiles and cover sheets can be powder coated (thickness ≥ 0,03 mm) > For details see Annex C-1 to Annex C-6, Annex C-8, Annex C-9, Annex C-11, Annex C-13 and Annex D-1 to Annex D-4 of the ETA

Components of "FAA-HT-1"	Characteristics
Additional components (vertical closing)	> On the support profile (cap profile) a gear motor with brake "G13A DM71K4" from manufacturer "KEB Automation GmbH" (fixed to a console (motor console) made of zinc plated steel (thickness 4,0 mm, steel grade S220GD+Z140MA according to EN 10346) of dimension 170 mm x 416 mm x 44,5 mm (width x height x depth) with 4 hexagonal bolts made of steel (Ø 6,0 mm x 25 mm (length)) with washers and blind rivet nuts (Ø 6,0 mm) which is installed within a recess of the support profile (cap profile) and fixed with 4 hexagonal bolts made of steel (Ø 6,0 mm x 25 mm (length)) with washers and blind rivet nuts (Ø 6,0 mm)) with 2 fabric belts "Gurt Hubtor 800daN LC 800 25mm Breite" from manufacturer "Schachermayer-Großhandelsgesellschaft m.b.H." (or in case of sliding leaves without counter weight 2 fabric belts "Sondergurt lt. Zeichnung 1000kg Breite 30mm" from manufacturer "LASH+LIFT Zurr- und Hebetechnik GmbH") and a limit switch "EKU1-KRHV" from manufacturer "DUX Schaltgeräte GmbH" fixed to the motor console with 2 countersunk head screws (Ø 4,0 mm x 20 mm (length)) is installed > Each fabric belt is fixed to the sliding leaf by one belt clamp (cross-section 140 mm x 40 mm x 66 mm; fixed with 1 hexagonal socket screw (Ø 12 mm x 110 mm (length)) with nuts) that is fixed to the U-shaped profile on the upper horizontal edge of the sliding leaf by 2 hexagonal socket screws (Ø 10 mm x 70 mm (length)) with nuts > Within the guide rail on the lower horizontal edge a bumper made of rubber "GIMET-PUFFER QUAL. NK 55 +/-5 SHORE A, IG M6" from manufacturer "Stöffl Rudolf GmbH" (Ø 20 mm x 25 mm (height)) is installed (fixed by double-sided adhesive tape); in case of continued conveyor systems the bumper is not installed > On the vertical edges of the sliding leaf and on both sides of the sliding leaf sliding strips made from polyamide 6 (cross-section 56 mm x 20 mm x 3 mm) from manufacturer "SMW Metallverarbeitung GmbH" are installed (fixed by 2 countersunk head blind rivets (Ø 4,0 mm x 8 mm (length)) > For details see Annex B-1 to Annex B-8, Annex B-12, Annex B-13, Annex B-15, Annex B-19, Annex B-21, Annex B-22 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-ST-1”	Characteristics
Additional components (horizontal closing)	> Within the guide rail on the vertical edge next to the housing of the closing device (closing weight system) a bumper made of rubber “GIMET-PUFFER QUAL. NK 55 +/-5 SHORE A, IG M6” from manufacturer “Stöffl Rudolf GmbH” (Ø 20 mm x 25 mm (height)) is installed (fixed by double-sided adhesive tape) > On the floor a guide roller from manufacturer “SMW Metallverarbeitung GmbH” is fixed to the floor with 2 frame dowels “Rahmendübel HRD” (Ø 10 mm x ≥ 80 mm (length)) from manufacturer “Hilti Corporation Business Unit Anchors”; in case of closure systems for continued conveyor systems a guide roller “Führungsrolle” from manufacturer “Hodapp GmbH & Co. KG” made of steel is installed on both edges of the sliding leaf on an L-shaped steel profile (thickness 6,0 mm, cross-section 120 mm x 55 mm x 120 mm x 55 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346; fixed with 2 threaded steel bolts (Ø 10 mm x 100 mm (length)) with washers and nuts and injection mortar “fischer FIS AB” from manufacturer “fischerwerke GmbH & Co. KG”) on the front face of the fixed panel with clearance for the conveyor and fixed with 2 hexagonal bolts made of steel (Ø 8 mm x 30 mm (length)) and nuts; in case of closure systems for discontinued conveyor systems installed at raised position a guide roller from manufacturer “SMW Metallverarbeitung GmbH” is installed within the guide rail on the lower horizontal edge and fixed with 2 hexagon socket countersunk head cap screws (Ø 10 mm x 20 mm (length)) > For details see Annex C-1 to Annex C-6, Annex C-13, Annex C-14, Annex C-19, Annex C-20, Annex C-21 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-HT-1”	Characteristics
Optional components (vertical closing)	> Within the guide rail on the lower horizontal edge an optional smoke seal “Klemmprofil mit Dichtung” from manufacturer “Forming AG” (cross-section 4,5 mm x 56 mm) can be attached to the labyrinth profile next to the separating element according to clause 2.1 of the ETA with self-tapping screws (Ø 3,9 mm x 13 mm (length)) > On both vertical edges of the sliding leaf, next to the vertical guide rails, a substructure for the optional overrun damper made of zinc plated steel (thickness 4,0 mm, cross-section 49 mm x 154 mm, steel grade S220GD+Z140MA according to EN 10346) which is fixed to the cover sheets of the panels on the lower horizontal edge of the sliding leaf by 1 blind rivet (Ø 4,0 mm x 8 mm (length)) and welded to the additional C-shaped profile on the lower horizontal edge of the sliding leaf can be installed > On both vertical edges of the sliding leaf, next to the vertical guide rails an optional overrun damper “VAR-200021-001” from manufacturer “DICTATOR Technik GmbH” (Ø 28 mm x 200 mm (height)) within a molded tube made of zinc plated steel (cross-section 140 mm x 35 mm x 35 mm, steel grade S220GD+Z140MA according to EN 10346) which is fixed to the substructure for the optional overrun damper on the lower horizontal edge of the sliding leaf by 4 countersunk head screws (Ø 5,0 mm x 10 mm (length)) can be installed > On the lower horizontal edge on the front side of the sliding leaf an optional handle made of stainless steel (cross-section 200 mm x 90 mm x 65 mm, steel grade V2A) and on the opposite side a recessed handle made of stainless steel (cross-section 200 mm x 90 mm x 23,5 mm, steel grade V2A) (embedded in “MIPROTEC L (400)” from manufacturer “MINERALKA d.o.o”, cross-section 174 mm x 214 mm x 70 mm) can be installed (except for vertical closing sliding leaves without counterweight). Both handles are fixed to each other by pan head screws (Ø 5,0 mm x 70 mm (length)) with sleeve nuts > On the motor console an optional bumper made of rubber from manufacturer “KAINDL Technischer Industriebedarf Gesellschaft m.b.H.” which acts as a back-up for the limit switch can be installed (fixed to the motor console with 1 hexagonal bolt (Ø 6,0 mm x 25 mm (length)) with washers and nuts) > For details see Annex B-1 to Annex B-4, Annex B-10 to Annex B-13, Annex B-14 to Annex B-16, Annex B-19, Annex B-22 and Annex D-1 to Annex D-4 of the ETA

Components of "FAA-ST-1"	Characteristics
Optional components (horizontal closing)	> On the upper horizontal edge on the front side of the sliding leaf, on the side of the housing of the closing device (closing weight system) an overrun damper "VAR-200021-001" from manufacturer "DICTATOR Technik GmbH" (Ø 28 mm x 200 mm (height)) within a C-shaped profile made of zinc plated steel (thickness 3,0 mm, cross-section 18 mm x 115 mm x 35 mm x 37 mm, steel grade S220GD+Z140MA according to EN 10346) which is fixed to the sliding leaf by 4 hexagon socket button head screws (Ø 5,0 mm x 25 mm (length)) can be installed > On the vertical edge on the front side of the sliding leaf, on the side of the housing of the closing device (closing weight system) in a height of 1100 mm an optional handle made of stainless steel (cross-section 200 mm x 90 mm x 65 mm, steel grade V2A) and on the opposite side a recessed handle made of stainless steel (cross-section 200 mm x 90 mm x 23,5 mm, steel grade V2A) (embedded in "MIPROTEC L (400)" from manufacturer "MINERALKA d.o.o", cross-section 174 mm x 214 mm x 70 mm) can be installed. Both handles are fixed to each other by pan head screws (Ø 5,0 mm x 70 mm (length)) with sleeve nuts > On the floor (or on the adjacent wall in case of conveyor systems installed at raised position), in the area next to the vertical edge of the sliding leaf opposite to the housing of the closing device (closing weight system) an optional bumper made of zinc plated steel (thickness 8,0 mm, cross-section 80 mm x 120 mm, steel grade DX51D+Z275MA according to EN 10346) and rubber can be installed (fixed to the separating element according to clause 2.1 of the ETA with 2 frame dowels "Rahmendübel HRD" (Ø 10 mm x ≥ 140 mm (length)) from manufacturer "Hilti Corporation Business Unit Anchors" or in case of walls made of normal concrete with 2 highload anchors "SZ 10-30 (Type SZ-S)" from manufacturer "MKT Metall-Kunststoff-Technik GmbH & Co.KG") > In case of closure systems for continued conveyor systems a guide roller "Führungsrolle" from manufacturer "Hodapp GmbH & Co. KG" made of steel installed on both edges of the sliding leaf on an L-shaped steel profile (thickness 6,0 mm, cross-section 120 mm x 55 mm x 120 mm x 55 mm, steel grade DX51D+Z275MA according to EN 10346; fixed with 2 threaded steel bolts (Ø 10 mm x 100 mm (length)) with washers and nuts and injection mortar "fischer FIS AB" from manufacturer "fischerwerke GmbH & Co. KG") on the back face of the fixed panel with clearance for the conveyor and fixed with 2 hexagonal bolts made of steel (Ø 8 mm x 30 mm (length)) and nuts can be installed > On the bottom side of the guide rail, opposite to the housing of the closing device (closing weight system) a retaining magnet "Hahn CQ Line Type GT63R001" from manufacturer "Kendrion (Linz) GmbH" or "HHM 50 Haftmagnet" from manufacturer "INKOL GmbH", which is fixed by 1 hexagonal bolt (Ø 8,0 mm x 16 mm (length)) to a console, that is fixed to the guide rail with 2 hexagonal bolts made of steel (Ø 8,0 mm x 40 mm (length)), can be installed; the counterpart of the retaining magnet is fixed on the upper part of the vertical edge of the sliding leaf with 4 chipboard screws (Ø 4,0 mm x 40 mm (length); (the hold-open device is not part of this ETA))

Components of “FAA-ST-1”	Characteristics
Optional components (horizontal closing)	> On the adjacent wall, in the area next to the vertical edge of the sliding leaf opposite to the housing of the closing device (closing weight system) an optional opening aid can be installed; the opening aid consists of a three-phase motor “ATS-300-MOF”, “ATS-400-MOF” or “ATS-600-MOF” from manufacturer “Albert Schnetz” (fixed to a console (motor console; C-shaped profile with lid) made of zinc plated steel (thickness 4,0 mm, steel grade S220GD+Z140MA according to EN 10346) of dimension 180 mm x 220 mm x 123 mm (width x height x depth) from manufacturer “SMW Metallverarbeitung GmbH” with 2 hexagonal bolts made of steel (Ø 12 mm x 30 mm (length)) with washers, which is installed on the adjacent wall and fixed with threaded steel bolts (Ø 10 mm; length ≥ thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm) or in case of walls made of normal concrete alternatively with bolt anchors “Bolzenanker HST3” (type M10) from manufacturer “Hilti Austria Gesellschaft m.b.H.” or bolt anchors “B 10-15-21/90” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG”) with a toothed belt “LL-8M-15-PAZ” from manufacturer “Albert Schnetz”, that is fixed to a door coupler made of zinc plated steel (thickness 4,0 mm, steel grade S220GD+Z140MA according to EN 10346; dimension 100 mm x 85 mm x 76 mm x 54 mm, length 204 mm with a counterpart (thickness 2,0 mm, dimension 80 mm x 204 mm) fixed to the sliding leaf with 4 hexagon socket countersunk head cap screws with washers and nuts (Ø 6,0 mm x 90 mm (length))) from manufacturer “SMW Metallverarbeitung GmbH” with a clamping plate made of aluminium and 2 hexagon socket countersunk head cap screws (Ø 6,0 mm x 16 mm (length)), which runs over a deflection roller “Umlenkrad” from manufacturer “SMW Metallverarbeitung GmbH” (Ø 60 mm, thickness 24 mm; made of aluminium) which is installed to a profile made of zinc plated steel (thickness 4,0 mm, steel grade S220GD+Z140MA according to EN 10346; dimension 94 mm x 102 mm x 35 mm, length 204 mm; with a turnbuckle consisting of 1 hexagonal bolt (Ø 6,0 mm x 130 mm (length)) that is fixed the labyrinth profile of the guide rail with 2 cup head square neck bolts (Ø 10 mm x 25 mm (length)) with washers and nuts > For details see Annex C-1 to Annex C-3, Annex C-8, Annex C-9, Annex C-13, Annex C-14 to Annex C-16, Annex C-18, Annex C-21 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-HT-1” / “FAA-ST-1”	Characteristics
Additional components for continued conveyor systems (sealing block; (vertical closing and horizontal closing)	> The sealing block is installed on the bottom of the sliding leaf and runs over the entire width of the sliding leaf between the guide rails of the guide for the sliding leaf > The sealing block has an overall depth of 235 mm, a depth of 142 mm (measured from the front side of the sliding leaf) and a height of 113 mm > The sealing block consists of a C-shaped profile (zinc plated steel, thickness 2 mm, cross-section 132 mm x 233,5 mm x 15 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346) and a Z-shaped profile (zinc plated steel, thickness 1,0 mm, cross-section 32 mm x 142 mm x 115 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346) which are connected to each other with flat-head rivets (Ø 4,0 mm x 16 mm (length)); horizontal distance between the fixings ≤ 200 mm) > The sealing block is filled with calcium silicate fire protective boards “PROMATECT® H” from manufacturer “Etex Building Performance N.V.” (nominal density 870 kg/m³, thickness 10 mm, width 131 mm (one board), thickness 20 mm, width 131 mm (two boards), thickness 20 mm, width 205 mm (three boards), thickness 15 mm, width 128 mm (one board) and thickness 6 mm, width 110 mm (one board)) > The sealing block is fixed to the sliding leaf with flat-head rivets (Ø 5,0 mm x 30 mm (length)) and flat-head rivets (Ø 4,8 mm x 8 mm (length)); horizontal distance between the fixings ≤ 200 mm) > In case of vertical closing sliding leaves on the bottom side of the sealing block 1 layer of intumescent strip “ROKU® Strip” (with self-adhesive device; without decorative foil) from manufacturer “Rolf Kuhn GmbH” (cross-section 215 mm x 2 mm) is installed which runs over the entire width of the sealing block > In case of horizontal closing sliding leaves on the bottom side of the sealing block 2 layers of intumescent strip “ROKU® Strip” (with self-adhesive device; without decorative foil) from manufacturer “Rolf Kuhn GmbH” (cross-section 215 mm x 2 mm; overall thickness 4 mm) are installed which run over the entire width of the sealing block > The sealing block can be powder coated (thickness ≥ 0,03 mm) > For details see Annex B-3, Annex B-4, Annex B-17, Annex B-23 and Annex C-3, Annex C-17, Annex C-21 and Annex D-1 to Annex D-4 of the ETA

Components of “FAA-HT-1” / “FAA-ST-1”	Characteristics
Additional components for continued conveyor systems (fixed panel with clearance for the conveyor; (vertical closing and horizontal closing)	> The fixed panel is installed below the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) and runs minimum over the entire width of the sliding leaf, the guide rails of the guide for the sliding leaf (including insulation profiles in case of vertical closing sliding leaves) and in case of horizontal closing sliding leaves the housing of the closing device > The fixed panel has an overall depth of 260 mm (the overall height is variable and depends on the conveyor technology (roll conveyor or chain conveyor) resp. on the height of the conveyors (for details see Annex B-9 and Annex B-17 and Annex C-7 and Annex C-17 of the ETA)) > On both sides of the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) mounting profiles made of zinc plated steel (thickness 3,0 mm, cross-section 290 mm x 40 mm x 240 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346) are installed > Between the mounting profiles a Z-shaped profile (zinc plated steel, thickness 3,0 mm, cross-section 55 mm x 248 mm x 20 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346) is inserted and fixed to the mounting profiles with 3 flat-head rivets per side (Ø 4,0 mm x 10 mm (length)) > On the Z-shaped profile, between the mounting profiles, on a bed of mortar (thin layer masonry mortar according to EN 998-2 (dry bulk density ≥ 1300 kg/m³, aggregate size ≤ 1,0 mm, minimum class M 10 according to EN 998-2, classification A1 according to EN 13501-1) e.g. “Dünnbettmörtel Ytong FIX N240” from manufacturer “Fels Vertriebs und Service GmbH & Co. KG” (“Xella Deutschland GmbH”)) with a thickness of minimum 10 mm, autoclaved aerated concrete blocks according to EN 771-4 (minimum compressive strength 5 N/mm² and minimum gross bulk density 550 kg/m³; e.g. “Ytong ThermCombi” from manufacturer “Xella Deutschland GmbH“) with a depth of 250 mm and a height of 150 mm are placed > The autoclaved aerated concrete blocks are fixed to the separating element according to clause 2.1 of the ETA with Z-shaped mounting profiles made of zinc plated steel (thickness 4,0 mm, cross-section 60 mm x 255 mm x 150 mm x 70 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346) > On the autoclaved aerated concrete blocks calcium silicate fire protective boards “PROMATECT® H” from manufacturer “Etex Building Performance N.V.” (nominal density 870 kg/m³, thickness 6 mm to 20 mm) with a depth of 240 mm (the overall height is variable and depends on the conveyor technology (roll conveyor or chain conveyor) resp. on the height of the conveyors (for details see Annex B-9 and Annex B-17 and Annex C-7 and Annex C-17 of the ETA)) are placed, which are fixed to each other and to the autoclaved aerated concrete blocks with the adhesive “KLEBEPASTE SB” from manufacturer “Hüttenes-Albertus Chemische Werke GmbH”; the calcium silicate fire protective boards are fixed to each other additionally punctual with self-tapping screws (Ø 3,9 mm x 19 mm (minimum length))

Components of “FAA-HT-1” / “FAA-ST-1”	Characteristics
Additional components for continued conveyor systems (fixed panel with clearance for the conveyor; (vertical closing and horizontal closing)	> The clearance in the fixed panel is configured for the respective conveyor technology (recess for roll conveyor and/or chain conveyor made of steel; maximum height of recess 160 mm, maximum width of recess 200 mm; maximum clearance between the conveyor and the recess 20 mm; the distance of a recess to a recess of the same conveyor is variable); in case of roll conveyors the space between two rolls is also completely filled with a web of the same height as the recess ((maximum 160 mm), whereas the height of the recess in place of the rolls has to be maximum 100 mm) made of calcium silicate fire protective boards “PROMATECT® H” from manufacturer “Etex Building Performance N.V.” (Annex B-9 and Annex B-17 and Annex C-7 and Annex C-17) > The minimum distance between two conveyors is 200 mm > In case of roll conveyors intumescent strips “ROKU® Strip” (with self-adhesive device; without decorative foil) from manufacturer “Rolf Kuhn GmbH” (thickness 2 mm) are installed on the bottom of the recess (over the entire width and entire depth of the recess) and on the surface of flanges of the roll conveyor (over the entire height (down to the bottom of the recess) and the entire depth of the flanges) > In case of chain conveyors intumescent strips “ROKU® Strip” (with self-adhesive device; without decorative foil) from manufacturer “Rolf Kuhn GmbH” (thickness 2 mm) are installed on the bottom of the recess (over the entire width and entire depth of the recess) and on the surface on both sides of the flanges of the chain conveyor (over the entire height (down to the bottom of the recess) of the flanges and the entire depth of the recess resp. the flanges (240 mm)) > The fixed panel with clearance for the conveyor and the Z-shaped mounting profiles made of zinc plated steel (thickness 4,0 mm, cross-section 60 mm x 255 mm x 150 mm x 70 mm, steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346) can be powder coated (thickness ≥ 0,03 mm) > For details see Annex B-3, Annex B-4, Annex B-7, Annex B-8, Annex B-9, Annex B-17, Annex B-23, Annex B-24 and Annex C-3, Annex C-6, Annex C-7, Annex C-17, Annex C-21, Annex C-22 and Annex D-1 to Annex D-4 of the ETA

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document

2.1 Intended use

In accordance with this European Technical Assessment, “FAA-HT-1” / “FAA-ST-1” was assessed as closure to seal necessary openings of trackbound conveyors (discontinued and continued conveyor systems) in internal separating walls. It is used to close the opening in such a way that the fire resistance of a wall is ensured.

“FAA-HT-1” / “FAA-ST-1” can be installed only in the types of separating elements as specified in the following table.

Separating element	Construction
High density rigid wall	> Masonry or normal concrete > Minimum density 800 kg/m³ > Minimum thickness 175 mm > The high density rigid wall shall be classified in accordance with EN 13501-2 for the required fire resistance period

“FAA-HT-1” / “FAA-ST-1” is not intended for passenger transportation. The normal position of the closure shall be opened.

The “FAA-HT-1” / “FAA-ST-1” shall only be used if the following conditions are met:

> The normally-open closure (open in the normal position; closes in the event of a fire) shall be equipped with a hold-open system suitable for the closure – where applicable in conjunction with the national regulations.

> A normally-open closure, which cannot be opened from a fixed position (floor, pedestal etc.), is to be equipped with a drive to open the closure.

> It is to be ensured that the closing of the closure is not obstructed by conveyed goods or other objects.

> It is to be ensured that the closed closure cannot be damaged by conveyed goods or other objects.

“FAA-HT-1” / “FAA-ST-1” is intended for use in use category Z_2 according to EOTA TR 024 – edition November 2006, amended July 2009. The use is therefore restricted for use at internal conditions with humidity classes other than Z_1, excluding temperature below 0 °C.

NOTE: Other requirements and other EU Directives such as e.g. low voltage, machinery may be applicable to the product(s) falling within the scope of this document.

2.2 Working life

The provisions made in this European Technical Assessment are based on an assumed working life of "FAA-HT-1" / "FAA-ST-1" of 10 years, provided the conditions laid down in the technical literature of the manufacturer relating to packaging, transport, storage, installation, use and repair are met[1].

The indications given on the intended working life cannot be interpreted as a guarantee neither given by the producer or his representative nor by the EOTA or the Technical Assessment Body, but are to be regarded only as a means for selecting the appropriate product in relation to the expected economically reasonable working life of the works.

The real working life might be, in normal use conditions, considerably longer without major degradation affecting the Basic requirements for construction works[2].

2.3 Manufacturing

The European Technical Assessment is issued for the product on the basis of agreed data / information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data / information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced.

The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further assessment or alterations to the European Technical Assessment, shall be necessary.

3 Performance of the product and references to the methods used for its assessment

Basic requirements for construction works	Essential characteristic	Method of verification	Performance
BWR 2	Resistance to fire	EN 13501-2: 2023	Clause 3.1.1 of the ETA
	Mechanical durability of self-closing	EN 13501-2: 2023 and EN 16034: 2014 (clause 4.5.2.1, table 1)	Clause 3.1.2 of the ETA
	Reaction to fire	EN 13501-1: 2018	Clause 3.1.3 of the ETA
BWR 3	Content, emission and/or release of dangerous	No performance assessed	

[1] It is assumed that the product will be installed according to the manufacturer's instructions or (in absence of such instructions) according to the usual practice of building professionals. Concerning product packaging, transport, storage, maintenance, replacement and repair it is the responsibility of the manufacturer to undertake the appropriate measures and to advise his clients on the transport, storage, maintenance, replacement and repair of the product as he considers necessary.

[2] The real working life of a product incorporated in a specific works depends on the environmental conditions to which that works is subject, as well as on the particular conditions of the design, execution, use and maintenance of that works. Therefore, it cannot be excluded that in certain cases the real working life of the product is shorter than referred to above.

3.1 Safety in case of fire (BWR 2)

3.1.1 Resistance to fire

"FAA-HT-1" / "FAA-ST-1" was tested according to EAD 350022-01-1107 clause 2.2.1 and EN 1366-7:2004 in conjunction with EN 1363-1:2012 and EN 1363-1:2020 as well as Annex A of EAD 350022-01-1107.

Based upon the gained test results and the field of application specified within EN 1366-7:2004 as well as Annex A of EAD 350022-01-1107 "FAA-HT-1" / "FAA-ST-1" has been classified according to EN 13501-2:2023.

The fire resistance classes of "FAA-HT-1" / "FAA-ST-1" are given in the following table.

<table>
<tr><th colspan="6">FAA-HT-1 (vertical closing sliding leaves)
for discontinued and continued conveyor systems made of steel</th></tr>
<tr><th rowspan="2">Separating element</th><th colspan="4">Clearance of the wall opening</th><th rowspan="2">Fire resistance classification</th></tr>
<tr><th>------</th><th>Width (mm)</th><th>Height (mm)</th><th>Surface (m²)</th></tr>
<tr><td rowspan="6">High density rigid wall

Masonry or normal concrete with an overall density of ≥ 800 kg/m³ and a thickness ≥ 175 mm</td><td>Min.</td><td>400</td><td>400</td><td>0,16</td><td rowspan="6">E 120
EI$_1$ 90
EI$_2$ 120</td></tr>
<tr><td>Max.</td><td>6900</td><td>5700</td><td>26,22</td></tr>
<tr><th colspan="4">Dimension of the sliding leaf</th></tr>
<tr><th>------</th><th>Width (mm)</th><th>Height (mm)</th><th>Surface (m²)</th></tr>
<tr><td>Min.</td><td>708</td><td>571</td><td>0,40</td></tr>
<tr><td>Max.</td><td>7208</td><td>6064</td><td>30,66</td></tr>
</table>

FAA-HT-1 (vertical closing sliding leaves; without counterweight) for discontinued and continued conveyor systems made of steel					
Separating element	**Clearance of the wall opening**				**Fire resistance classification**
	------	**Width (mm)**	**Height (mm)**	**Surface (m²)**	
High density rigid wall Masonry or normal concrete with an overall density of ≥ 800 kg/m³ and a thickness ≥ 175 mm	Min.	400	400	0,16	E 120 EI_1 90 EI_2 120
	Max.	2500	2500	6,25	
	Dimension of the sliding leaf				
	------	**Width (mm)**	**Height (mm)**	**Surface (m²)**	
	Min.	708	571	0,40	
	Max.	2808	2839	7,97	

FAA-ST-1 (horizontal closing sliding leaves) for discontinued and continued conveyor systems made of steel					
Separating element	**Clearance of the wall opening**				**Fire resistance classification**
	------	**Width (mm)**	**Height (mm)**	**Surface (m²)**	
High density rigid wall Masonry or normal concrete with an overall density of ≥ 800 kg/m³ and a thickness ≥ 175 mm	Min.	400	400	0,16	E 120 EI_1 60 EI_2 120
	Max.	4540	4850	22,02	
	Dimension of the sliding leaf				
	------	**Width (mm)**	**Height (mm)**	**Surface (m²)**	
	Min.	754	555	0,42	
	Max.	4894	5135	25,13	

The resistance to fire classification is only valid if “FAA-HT-1” / “FAA-ST-1” is installed according to Annex A-1 to Annex A-7 of the ETA.

3.1.2 Mechanical durability of self-closing

"FAA-HT-1" / "FAA-ST-1" was tested according to EAD 350022-01-1107 clause 2.2.2 and EN 12605:2000 as well as Annex B of EAD 350022-01-1107.

Based upon the gained test results and the field of application specified within EN 12605:2000 as well as Annex B of EAD 350022-01-1107 "FAA-HT-1" / "FAA-ST-1" has been classified according to EN 13501-2:2023 and EN 16034:2014 (clause 4.5.2.1, table 1).

The classes of mechanical durability of self-closing of "FAA-HT-1" / "FAA-ST-1" are given in the following table.

Classification acc. to EN 13501-2:2023 and EN 16034:2014 (clause 4.5.2.1, table 1)
C2

The mechanical durability of self-closing classification is only valid if "FAA-HT-1" / "FAA-ST-1" is installed according to Annex A-1 to Annex A-7of the ETA.

3.1.3 Reaction to fire

The components of "FAA-HT-1" / "FAA-ST-1" were assessed according to EAD 350454-00-1104 clause 2.2.3 and classified according to EN 13501-1:2018.

The classes of reaction to fire of the components of "FAA-HT-1" / "FAA-ST-1" are given in the following table.

Component	**Material / Product**	**Class according to EN 13501-1:2018**
Sliding leaf	Roll-formed cover sheets made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	C-shaped profiles made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	C-shaped fixing clamps made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Sheet steel profiles made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Gypsum boards (type F according to EN 520, density ≥ 880 kg/m³)	A2-s1,d0
	"DRS SANDWICH FIRE BOARD 70 Ei 120" from manufacturer "Knauf Insulation, d.o.o."	A1
	Fixings made of steel	A1

Component	Material / Product	Class according to EN 13501-1:2018
Guide for the sliding leaf	Labyrinth profiles made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	U-shaped profiles made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Gypsum boards (type F according to EN 520, density ≥ 880 kg/m³)	A2-s1,d0
	Cover sheets made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	"DRS CRIMP FIRE BOARD D15" from manufacturer "Knauf Insulation, d.o.o."	A1
	Rollers with an axe made of steel	A1
	Mounting profiles made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Steel angles (steel grade S220GD+Z140MA according to EN 10346)	A1
	L-shaped steel profiles (steel grade S220GD+Z140MA according to EN 10346)	A1
	Fixing profiles (steel grade S220GD+Z140MA according to EN 10346)	A1
	Fixings made of steel	A1
Sealing system	"Kerafix® Flexpan 200 NG-A" (with self-adhesive device; without decorative foil) from manufacturer "Rolf Kuhn GmbH"	E
	"PROMASEAL®-GTSK" (with self-adhesive device; without decorative foil) from manufacturer "Etex Building Performance NV"	B-s1,d0
	Labyrinth profiles made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	U-shaped profiles made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Gypsum boards (type F according to EN 520, density ≥ 880 kg/m³)	A2-s1,d0
	Fixings made of steel	A1

Component	Material / Product	Class according to EN 13501-1:2018
Closing device (closing weight system)	Housing of the closing device (U-shaped profiles and cover sheets made of zinc plated steel, steel grade S220GD+Z140MA according to EN 10346)	A1
	Counterweight (housing made of zinc plated steel, steel grade S220GD+Z140MA according to EN 10346 and weights made of square steel, steel grade S235JR according to EN 10025-2)	A1
	Suspension ropes with thimbles, rope shackles and rope turnbuckles made of steel	A1
	Cable pulley “Seilrolle mit Doppelrille 210mm” from manufacturer “Etter + Co AG (webi)” made of grey cast iron	A1
	Consoles made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Support profile (cap profile) made of zinc-plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Closing weights (steel grade S235JR according to EN 10025-2)	A1
	Cable pulley made of grey cast iron from manufacturer “SMW Metallverarbeitung GmbH”	A1
	Ropes with thimbles and clamps made of steel	A1
	Fixings made of steel	A1
Additional components	Console (motor console) made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	L-shaped steel profiles (steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346	A1
	Fixings made of steel	A1

Component	Material / Product	Class according to EN 13501-1:2018
Optional components	Substructure for the optional overrun damper made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Molded tube for the optional overrun damper made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Handle and recessed handle made of stainless steel (steel grade V2A)	A1
	C-shaped profiles made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Optional bumper made of zinc plated steel (steel grade DX51D+Z275MA according to EN 10346) without the rubber part	A1
	L-shaped steel profiles (steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346	A1
	Console (motor console; C-shaped profile with lid) made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Door coupler made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Clamping plate made of aluminium	A1
	“Umlenkrad” from manufacturer “SMW Metallverarbeitung GmbH” made of aluminium	A1
	Profile made of zinc plated steel (steel grade S220GD+Z140MA according to EN 10346)	A1
	Fixings made of steel	A1
Additional components for continued conveyor systems (sealing block)	C-shaped profiles made of zinc plated steel (steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346)	A1
	Z-shaped profiles made of zinc plated steel (steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346)	A1
	“PROMATECT® H” from manufacturer “Etex Building Performance N.V.”	A1
	“ROKU® Strip” (with self-adhesive device; without decorative foil) from manufacturer “Rolf Kuhn GmbH”	E
	Fixings made of steel	A1

Component	Material / Product	Class according to EN 13501-1:2018
Additional components for continued conveyor systems (fixed panel with clearance for the conveyor)	Mounting profiles made of zinc plated steel (steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346)	A1
	Z-shaped mounting profiles made of zinc plated steel (steel grade DX51D+Z275MA or S220GD+Z140MA according to EN 10346)	A1
	Thin layer masonry mortar according to EN 998-2 (dry bulk density ≥ 1300 kg/m³)	A1
	"PROMATECT® H" from manufacturer "Etex Building Performance N.V."	A1
	"ROKU® Strip" (with self-adhesive device; without decorative foil) from manufacturer "Rolf Kuhn GmbH"	E
	Fixings made of steel	A1
All other components	No performance assessed	

3.2 Hygiene, health and the environment (BWR 3)

3.2.1 Content, emission and/or release of dangerous substances

No performance assessed.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

4.1 AVCP system

According to the Decision 1999/454/EC[3], amended by Decision 2001/596/EC[4] of the European Commission the system(s) of assessment and verification of constancy of performance (see Annex V of Regulation (EU) No 305/2011) is given in the following table.

Product(s)	**Intended use(s)**	**Level(s) or class(es)** (resistance to fire)	**System** of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for fire compartmentation and/or fire protection or fire performance	any	1

In addition, according to the Decision 1999/454/EC, amended by Decision 2001/596/EC of the European Commission the system(s) of assessment and verification of constancy of performance, with regard to reaction to fire, is given in the following table.

Product(s)	**Intended use(s)**	**Level(s) or class(es)** (reaction to fire)	**System** of assessment and verification of constancy of performance
Fire Stopping and Fire Sealing Products	for uses subject to regulations on reaction to fire	A1*, A2*, B*, C*	1
		A1**, A2**, B**, C**, D, E	3
		(A1 to E)***, F	4

* Products/materials for which a clearly identifiable stage in the production process results in an improvement of the reaction to fire classification (e.g. an addition of fire retardants or a limiting of organic material)

** Products/materials not covered by footnote (*)

*** Products/materials that do not require to be tested for reaction to fire (e.g. products/materials of class A1 according to Commission Decision 96/603/EC, as amended)

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the Technical Assessment Body Österreichisches Institut für Bautechnik.

The notified product certification body shall visit the factory at least twice a year for surveillance of the manufacturer.

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by Österreichisches Institut für Bautechnik

Thomas Rockenschaub
Deputy Managing Director

[3] Official Journal of the European Communities no. L 178, 14.7.1999, p. 52
[4] Official Journal of the European Communities no. L 209, 2.8.2001, p. 33

Member of EOTA

1 General

> "FAA-HT-1" / "FAA-ST-1" can be installed only in the types of separating elements as specified in clause 2.1 of the ETA.

2 Details for installation of "FAA-HT-1" in case of vertical closing sliding leaves (see Annex A-1 to Annex A-3, Annex B-1 to Annex B-29 and Annex D-1 to Annex D-4 of the ETA)

> "FAA-HT-1" has to be installed according to the ETA-holder's installation instructions.

> "FAA-HT-1" can be installed at floor level or at raised position.

> The width of the housing of the closing device and the width and the height of the housing of the counter weight as well as the weight of the counter weight, the length of the suspension ropes and the width of the support profile (cap profile) have to be dimensioned according to the size and the weight of the sliding leaf (except for vertical closing sliding leaves without counterweight).

> In case of vertical closing sliding leaves without counterweight the length of the fabric belts "Sondergurt lt. Zeichnung 1000kg Breite 30mm" from manufacturer "LASH+LIFT Zurr- und Hebetechnik GmbH" has to be dimensioned according to the size of the sliding leaf.

> All types of fixings and the number of fixings have to be dimensioned according to the size and the weight of the sliding leaf. For details see Annex B-5 to Annex B-8 of the ETA.

> The maximum distance of the fixings shall be as given in Annex B-5 to Annex B-8 of the ETA.

> The distance of the labyrinth profiles of the vertical guide rails to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 100 mm. For details see Annex B-10 and Annex B-11 of the ETA.

> The distance of the labyrinth profile of the guide rail on the lower horizontal edge to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 50 mm. For details see Annex B-16 of the ETA.

> The distance of the labyrinth profile of the sealing system to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 100 mm. For details see Annex B-16 and Annex B-17 of the ETA.

> The relevant maximum clearances are given in Annex B-9, Annex B-25, Annex B-28 of the ETA.

FAA-HT-1 **- Details for installation -**	**ANNEX A-1**

2.1 Installation of the guide for the sliding leaf (and the closing device (closing weight system); except in case of vertical closing sliding leaves without counterweight)

> The U-shaped profile of the closing device (closing weight system; except in case of vertical closing sliding leaves without counterweight) has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-25 of the ETA.

> The U-shaped profile (insulation profile) of the vertical guide rail on the right side (and on the left side in case of vertical closing sliding leaves without counterweight) has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-25 of the ETA.

> The labyrinth profile of the vertical guide rail on the right side and on the left side has to be fixed to the separating element according to clause 2.1 of the ETA by frame dowels “Rahmendübel HRD” (Ø 10 mm x ≥ 140 mm (length)) from manufacturer “Hilti Corporation Business Unit Anchors”. For details see Annex B-25 of the ETA.

> The U-shaped profile (insulation profile) of the guide rail on the lower horizontal edge has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-28 of the ETA.

> The labyrinth profile of the guide rail on the lower horizontal edge has to be fixed to the separating element according to clause 2.1 of the ETA by frame dowels “Rahmendübel HRD” (Ø 10 mm x ≥ 140 mm (length)) from manufacturer “Hilti Corporation Business Unit Anchors”. For details see Annex B-28 of the ETA.

> If the guide rail on the lower horizontal edge is optionally installed on the floor without insulation profile, the labyrinth profile of the guide rail has to be fixed to floor by highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” (and spacer plates made of metal, if needed). In case of gaps > 5 mm between the guide rail and the floor, the gap has to be completely filled with mineral wool according to EN 13162 (classification A1 according to EN 13501-1, minimum density 50 kg/m³). For details see Annex B-28 of the ETA.

> The maximum distance of the fixings shall be as given in Annex B-5 to Annex B-8 of the ETA.

FAA-HT-1 **- Details for installation -**	**ANNEX A-2**

Member of EOTA

2.2 Installation of the labyrinth profile of the sealing system

> The labyrinth profile has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-28 of the ETA.

> The maximum distance of the fixings shall be as given in Annex B-5 to Annex B-8 of the ETA.

2.3 Installation of the support profile (cap profile)

> The support profile (cap profile) has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length ≥ thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively bolt anchors “Bolzenanker HST3” (type M10) from manufacturer “Hilti Austria Gesellschaft m.b.H.” or bolt anchors “B 10-15-21/90” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-26 and Annex B-27 of the ETA.

> The maximum distance of the fixings shall be as given in Annex B-5 to Annex B-8 of the ETA.

2.4 Installation of the mounting profiles of the fixed panel with clearance for the conveyor

> The mounting profiles on both sides of the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) have to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 6 mm; centre-hole Ø 13 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-7, Annex B-8 and Annex B-29 of the ETA.

> The Z-shaped profile (for the bed of mortar) and the Z-shaped mounting profiles for fixing the aerated concrete blocks have to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 6 mm; centre-hole Ø 13 mm). In case of walls made of normal concrete, for the Z-shaped profile (for the bed of mortar) and on the part of the Z-shaped mounting profiles below the aerated concrete blocks, alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex B-29 of the ETA.

> The maximum distance of the fixings resp. of the Z-shaped profile (for the bed of mortar) and the Z-shaped mounting profiles for fixing the aerated concrete blocks shall be as given in Annex B-7 and Annex B-8 of the ETA.

FAA-HT-1 **- Details for installation -**	**ANNEX A-3**

Member of EOTA

3 Details for installation of "FAA-ST-1" in case of horizontal closing sliding leaves (see Annex A-4 to Annex A-7, Annex C-1 to Annex C-26 and Annex D-1 to Annex D-4 of the ETA)

> "FAA-ST-1" has to be installed according to the ETA-holder's installation instructions.

> "FAA-ST-1" can be installed at floor level or at raised position.

> The number of the closing devices, the weight of the closing weight, the length of the ropes and the number of mounting profiles have to be dimensioned according to the size and the weight of the sliding leaf.

> All types of fixings and the number of fixings have to be dimensioned according to the size and the weight of the sliding leaf. For details see Annex C-4 to Annex C-6 of the ETA.

> The maximum distance of the fixings shall be as given in Annex C-4 to Annex C-6 of the ETA.

> The distance of the labyrinth profile on the vertical edge next to the housing of the closing device (closing weight system) to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 100 mm. For details see Annex C-8 and Annex C-9 of the ETA.

> The distance of the labyrinth profile on the side of the sliding leaf opposite to the housing of the closing device (closing weight system), which is installed on the separating element according to clause 2.1 of the ETA to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 100 mm. For details see Annex C-8 and Annex C-9 of the ETA.

> The distance of the labyrinth profile of the guide rail to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 100 mm. For details see Annex C-15 and Annex C-16 of the ETA.

> In case of closure systems for discontinued conveyor systems installed at raised position the distance of the labyrinth profile of the guide rail on the lower horizontal edge to the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) has to be minimum 50 mm. For details see Annex C-16 of the ETA.

> The relevant maximum clearances are given Annex C-7, Annex C-16 to Annex C-19, Annex C-21, Annex C-23 to Annex C-25 of the ETA

FAA-ST-1 **- Details for installation -**	**ANNEX A-4**

3.1 Installation of the closing device (closing weight system; and the guide for the sliding leaf in case of close systems for discontinued conveyor systems)

> The U-shaped profile of the closing device (closing weight system) has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. If optionally (depending on the size and the weight of the sliding leaf) the number of the closing devices is increased, the number of the fixings of the additional closing devices has to be dimensioned according to number of the closing devices. For details see Annex C-23 and Annex C-24 of the ETA.

> The labyrinth profile of the guide rail on the vertical edge (next to the housing of the closing device (closing weight system)) has to be fixed to the separating element according to clause 2.1 of the ETA by frame dowels “Rahmendübel HRD” (Ø 10 mm x ≥ 140 mm (length)) from manufacturer “Hilti Corporation Business Unit Anchors”. For details see Annex C-23 and Annex C-24 of the ETA.

> In case of a closing device (closing weight system) installed detached on the side opposite to the vertical guide rail, the U-shaped profile (insulation profile) of the vertical guide rail has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-24 of the ETA.

> In case of closure systems for discontinued conveyor systems installed at raised position the U-shaped profile (insulation profile) of the guide rail on the lower horizontal edge has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-25 of the ETA.

> In case of closure systems for discontinued conveyor systems installed at raised position the labyrinth profile of the guide rail on the lower horizontal edge has to be fixed to the separating element according to clause 2.1 of the ETA by frame dowels “Rahmendübel HRD” (Ø 10 mm x ≥ 140 mm (length)) from manufacturer “Hilti Corporation Business Unit Anchors”. For details see Annex C-25 of the ETA.

> The maximum distance of the fixings shall be as given in Annex C-4 to Annex C-6 of the ETA.

FAA-ST-1 **- Details for installation -**	**ANNEX A-5**

3.2 Installation of the labyrinth profiles of the sealing system

> The labyrinth profile on the side of the sliding leaf opposite to the housing of the closing device (closing weight system) has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-23 of the ETA.

> The labyrinth profile below the labyrinth profile of the guide rail has to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively concrete screws “fischer Betonschraube ULTRACUT FBS II 6x60/5 US” from manufacturer “fischerwerke GmbH & Co. KG” or highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-25 of the ETA.

> The maximum distance of the fixings shall be as given in Annex C-4 to Annex C-6 of the ETA.

FAA-ST-1 **- Details for installation -**	**ANNEX A-6**

3.3 Installation of the mounting profiles of the guide for the sliding leaf

> The mounting profiles of the guide for the sliding leaf have to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length ≥ thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 5 mm; centred thread Ø 10 mm). In case of walls made of normal concrete alternatively bolt anchors “Bolzenanker HST3” (type M10) from manufacturer “Hilti Austria Gesellschaft m.b.H.” or bolt anchors “B 10-15-21/90” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-25 of the ETA.

> The maximum distance of the fixings resp. of the mounting profiles of the guide for the sliding leaf shall be as given in Annex C-4 to Annex C-6 of the ETA.

3.4 Installation of the mounting profiles of the fixed panel with clearance for the conveyor

> The mounting profiles on both sides of the opening of the separating element according to clause 2.1 of the ETA (clearance of the wall opening) have to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 6 mm; centre-hole Ø 13 mm). In case of walls made of normal concrete alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-6 and Annex C-26 of the ETA.

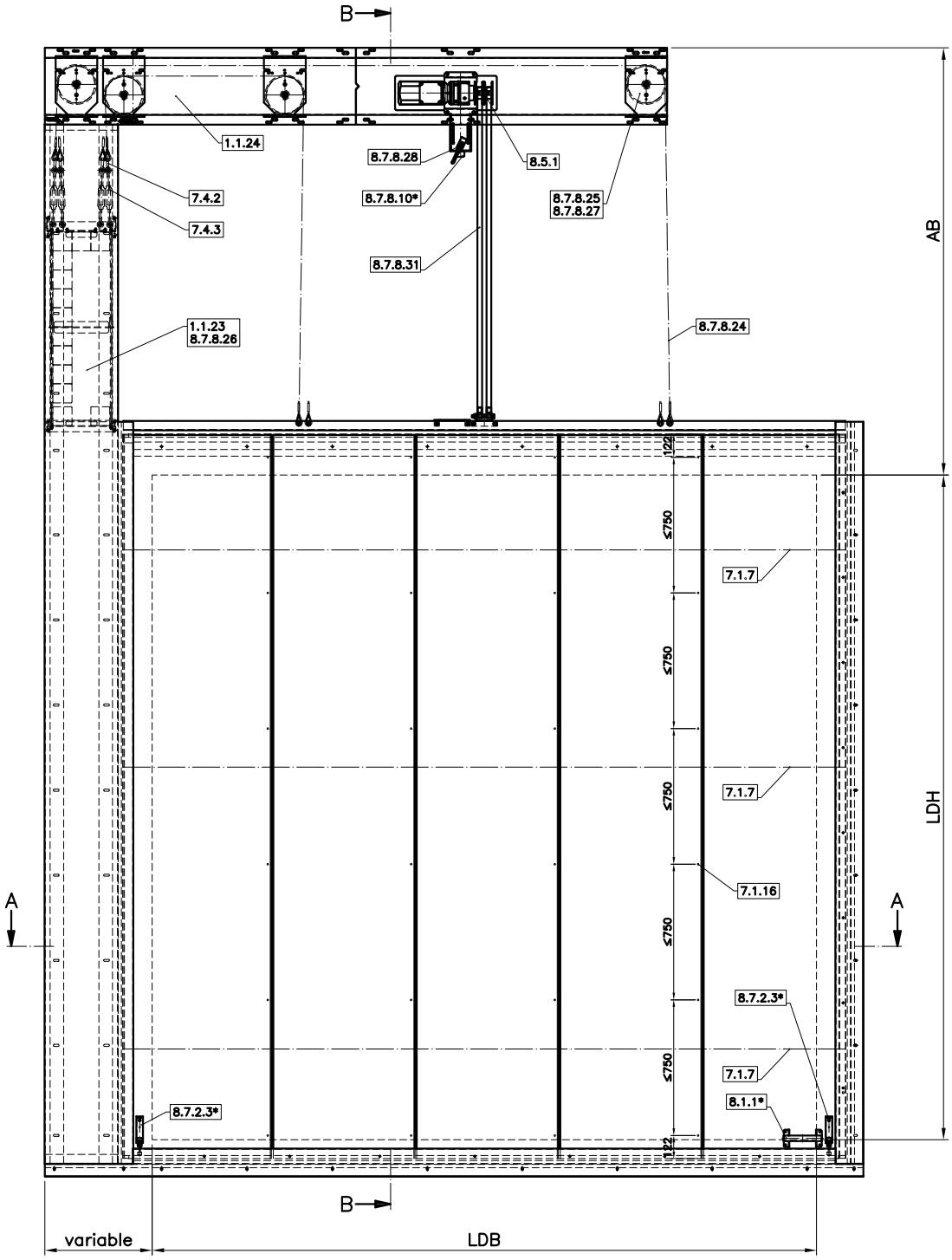
> The Z-shaped profile (for the bed of mortar) and the Z-shaped mounting profiles for fixing the aerated concrete blocks have to be fixed to the separating element according to clause 2.1 of the ETA by threaded steel bolts (Ø 10 mm; length > thickness of the separating element according to clause 2.1 of the ETA) with washers and nuts and counter plates made of steel (cross-section Ø 80 mm x 6 mm; centre-hole Ø 13 mm). In case of walls made of normal concrete, for the Z-shaped profile (for the bed of mortar) and on the part of the Z-shaped mounting profiles below the aerated concrete blocks, alternatively highload anchors “SZ 10-30 (Type SZ-S)” from manufacturer “MKT Metall-Kunststoff-Technik GmbH & Co.KG” can be used. For details see Annex C-26 of the ETA.

> The maximum distance of the fixings resp. of the Z-shaped profile (for the bed of mortar) and the Z-shaped mounting profiles for fixing the aerated concrete blocks shall be as given in Annex C-6 of the ETA.

FAA-ST-1 **- Details for installation -**	**ANNEX A-7**

Member of EOTA

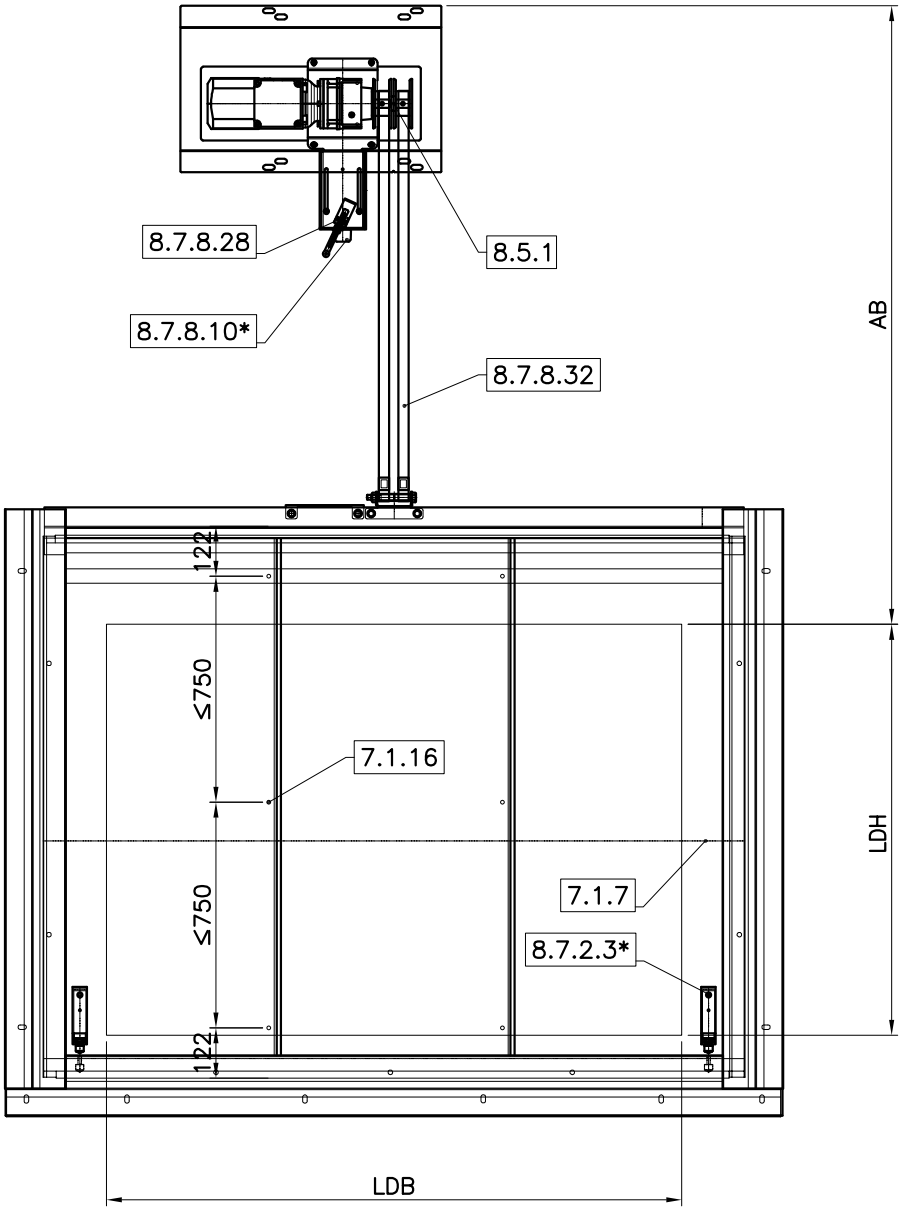
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view



all dimensions in mm; *optional

FAA-HT-1 (vertical closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-1**

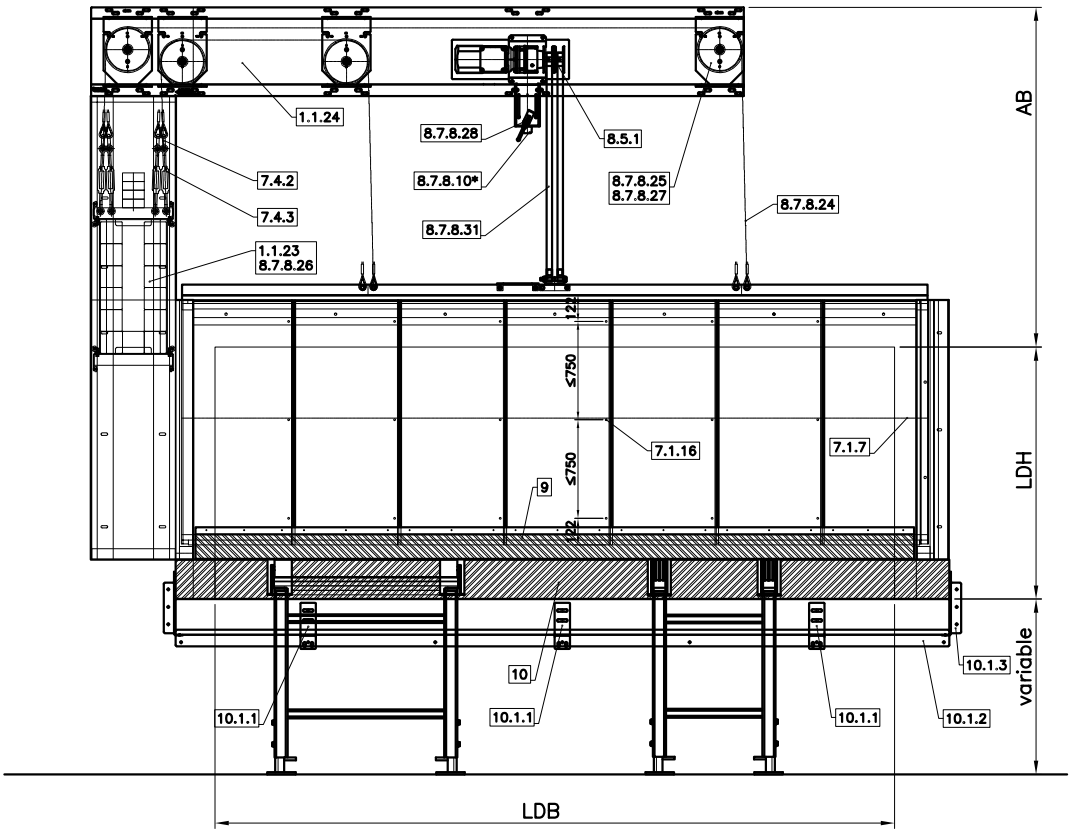
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view



all dimensions in mm; *optional

FAA-HT-1 (vertical closing sliding leaves; without counterweight) for discontinued conveyor systems - Installation in rigid wall -	**ANNEX B-2**

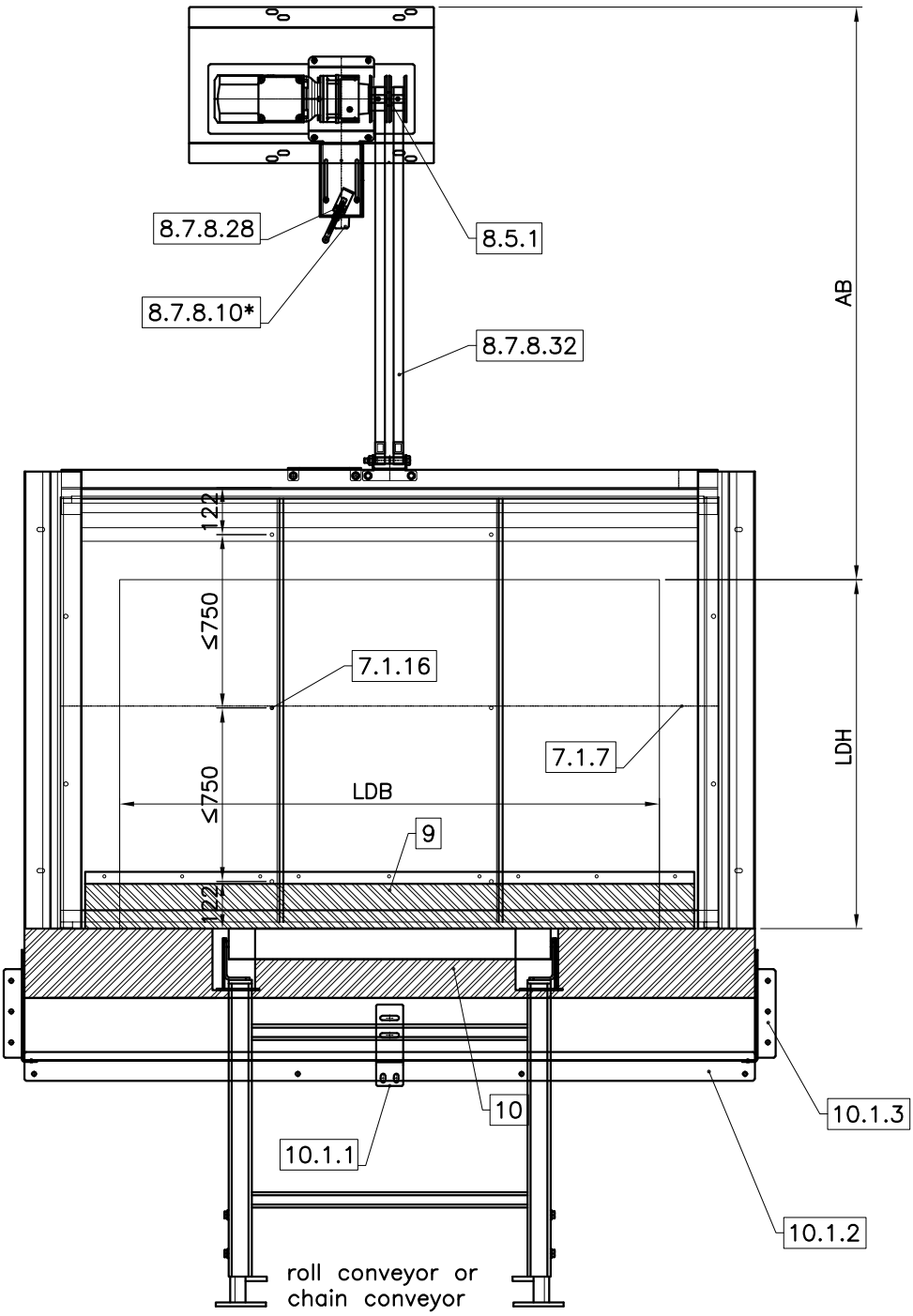
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view



all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-3**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view

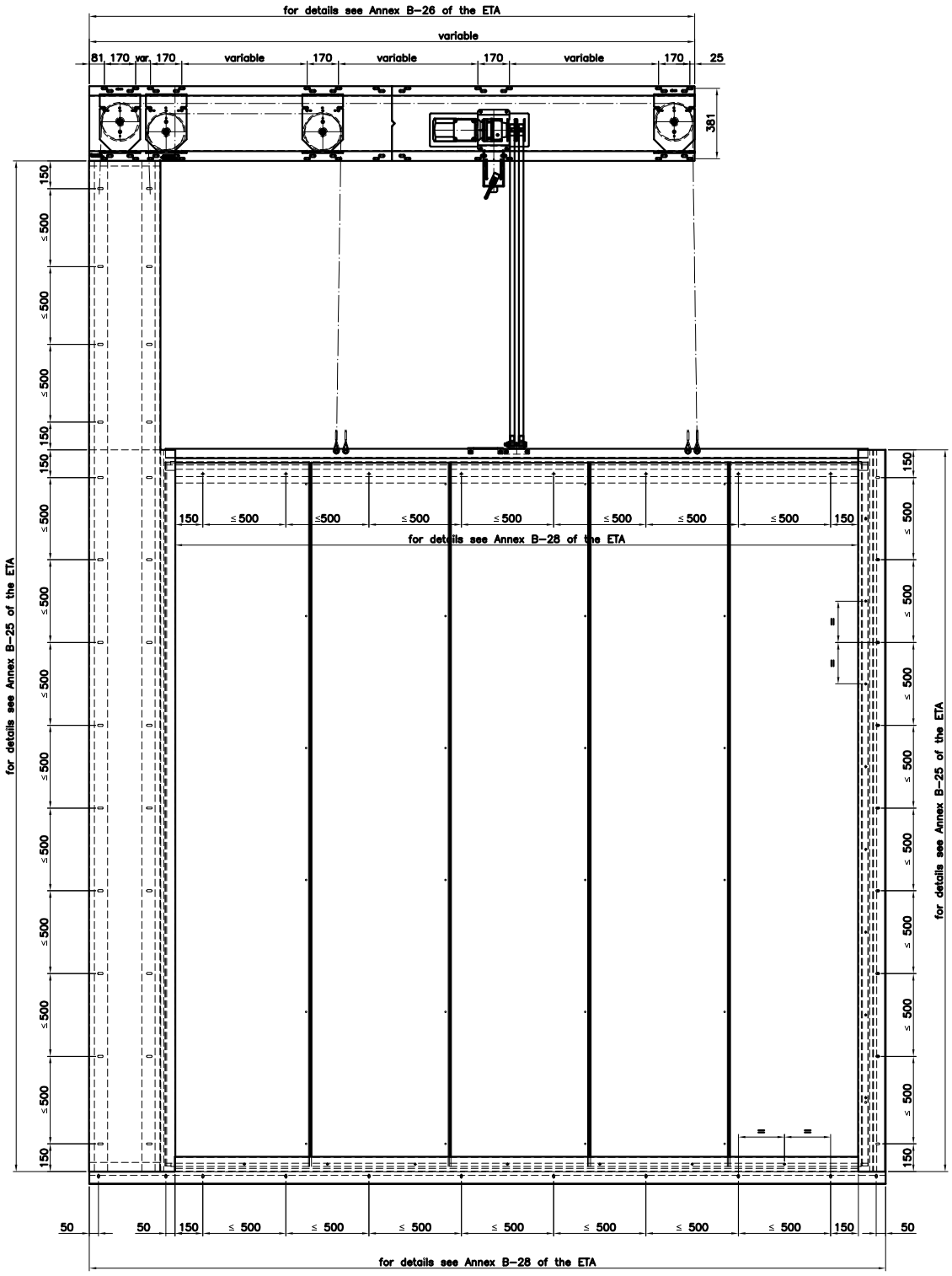


all dimensions in mm; *optional

FAA-HT-1 (vertical closing sliding leaves; without counterweight) for continued conveyor systems - Installation in rigid wall -	**ANNEX B-4**

Member of EOTA

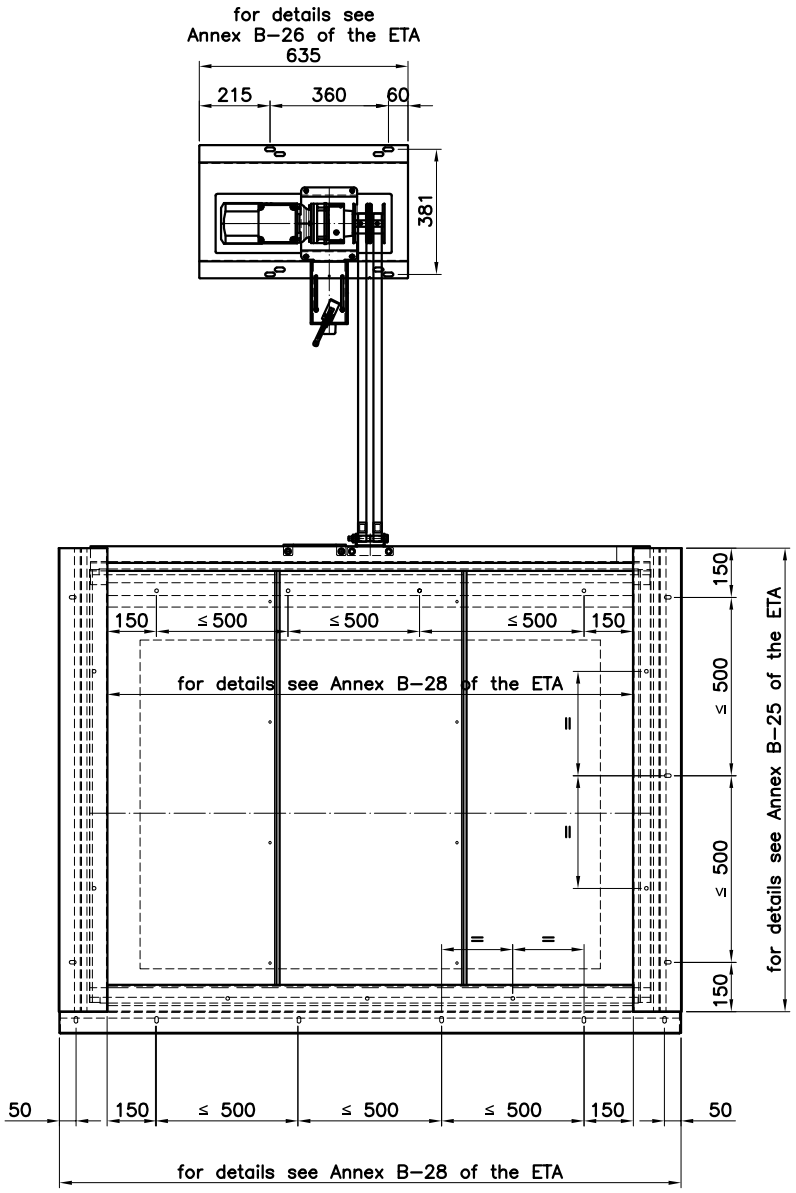
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view



all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-5**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view

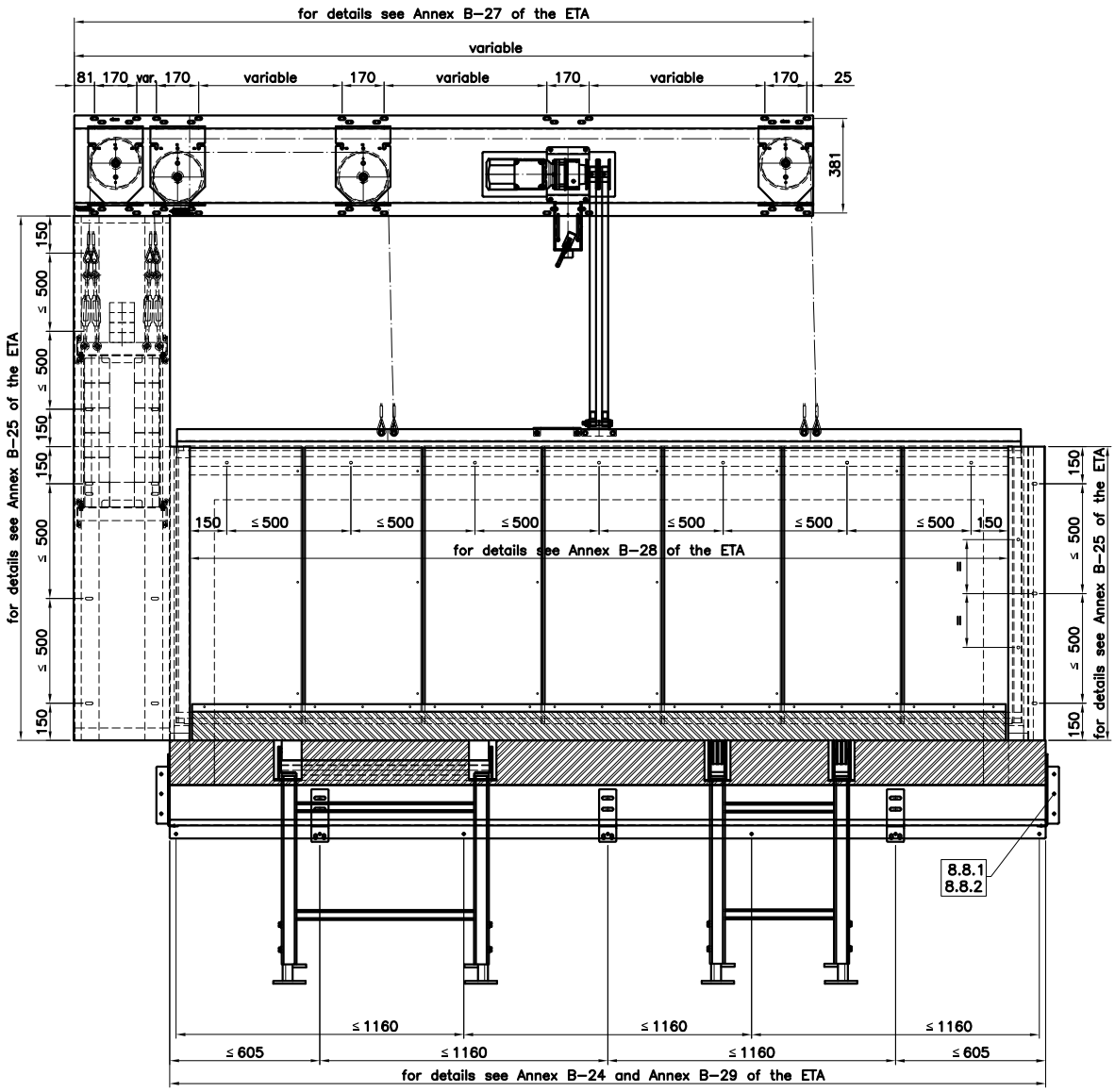


all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves; without counterweight) for discontinued conveyor systems - Installation in rigid wall -	**ANNEX B-6**

Member of EOTA

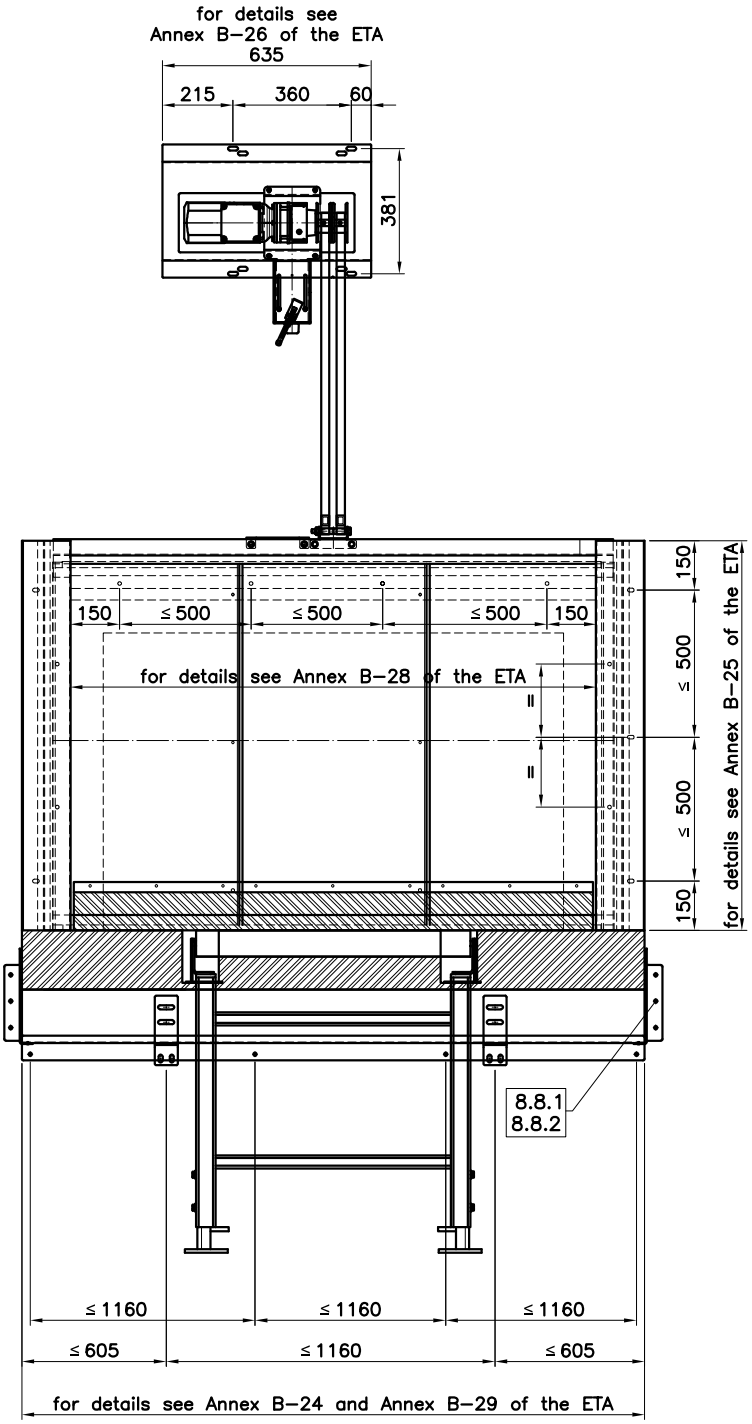
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view



all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-7**

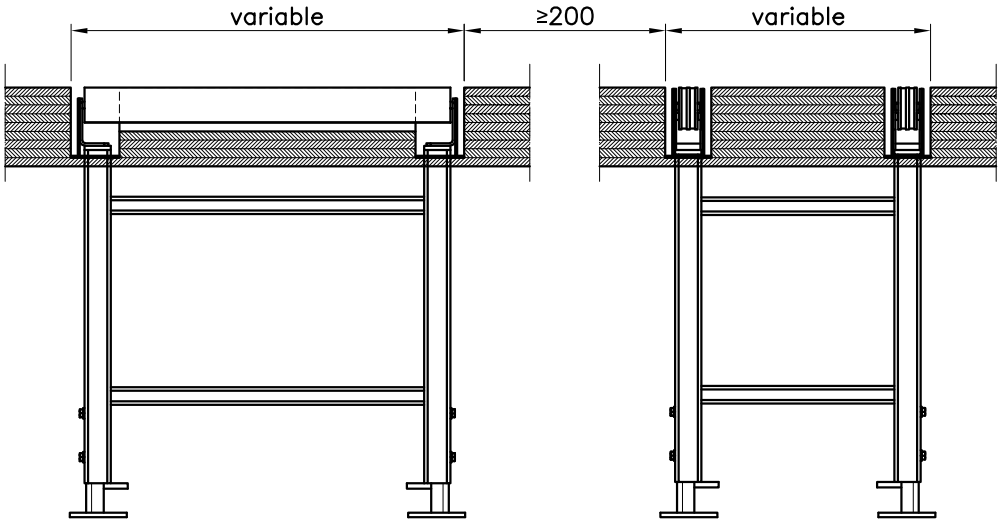
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view



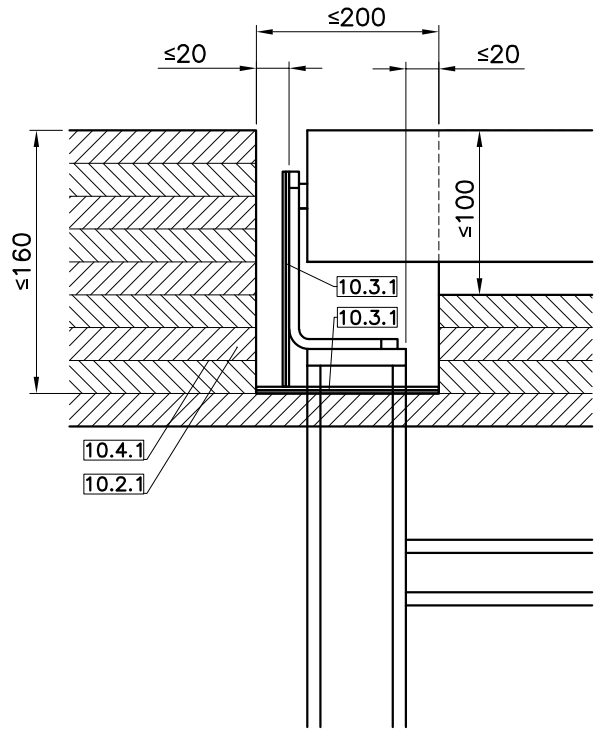
all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves; without counterweight) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-8**

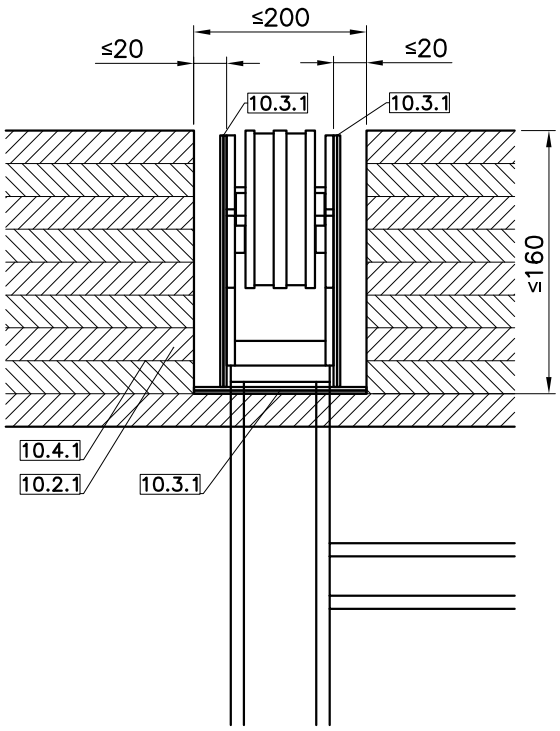
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Fixed paned with clearance for the conveyor – Installation drawing and clearances – front view



roll conveyor



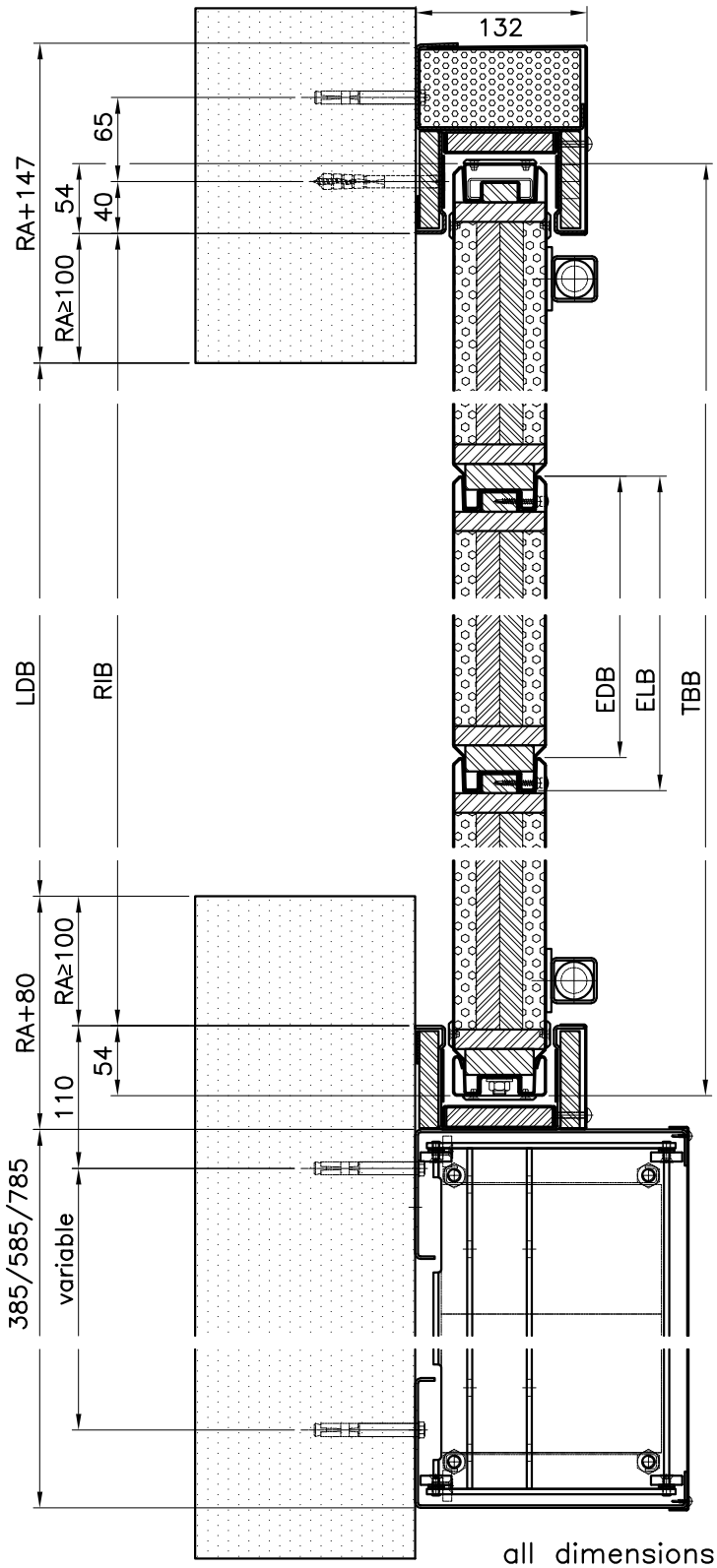
chain conveyor



all dimensions in mm

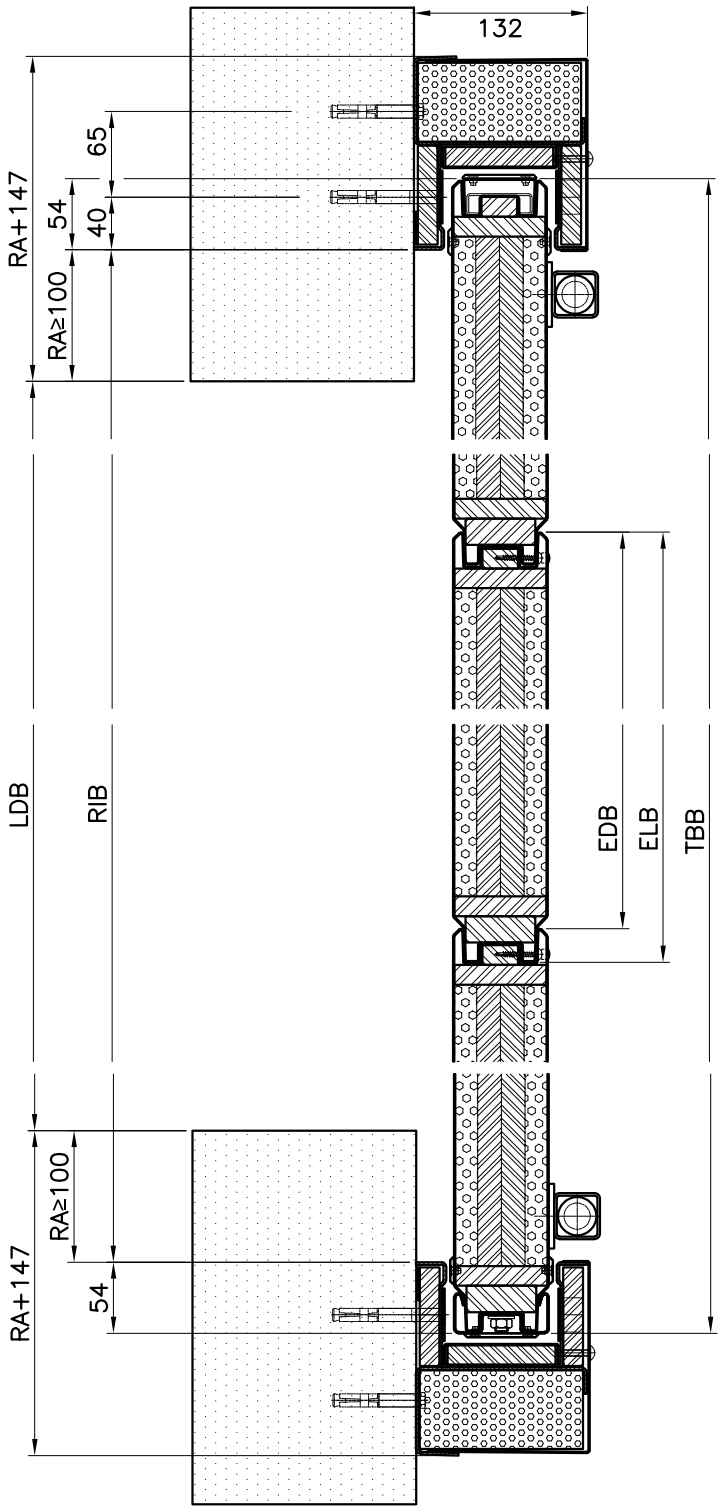
FAA-HT-1 (vertical closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-9**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – top-view (sectional view)



FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-10**

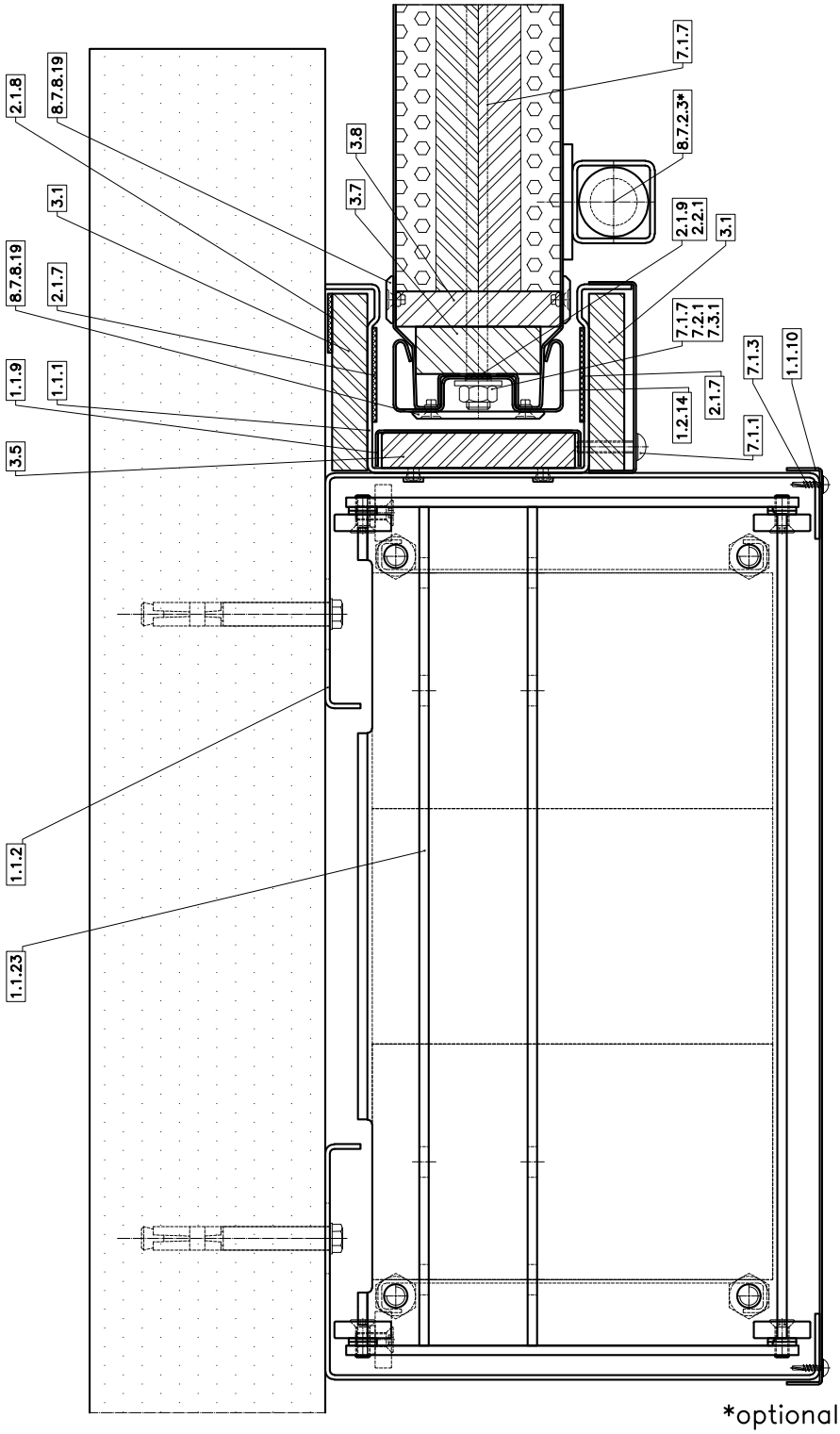
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – top-view (sectional view)



all dimensions in mm

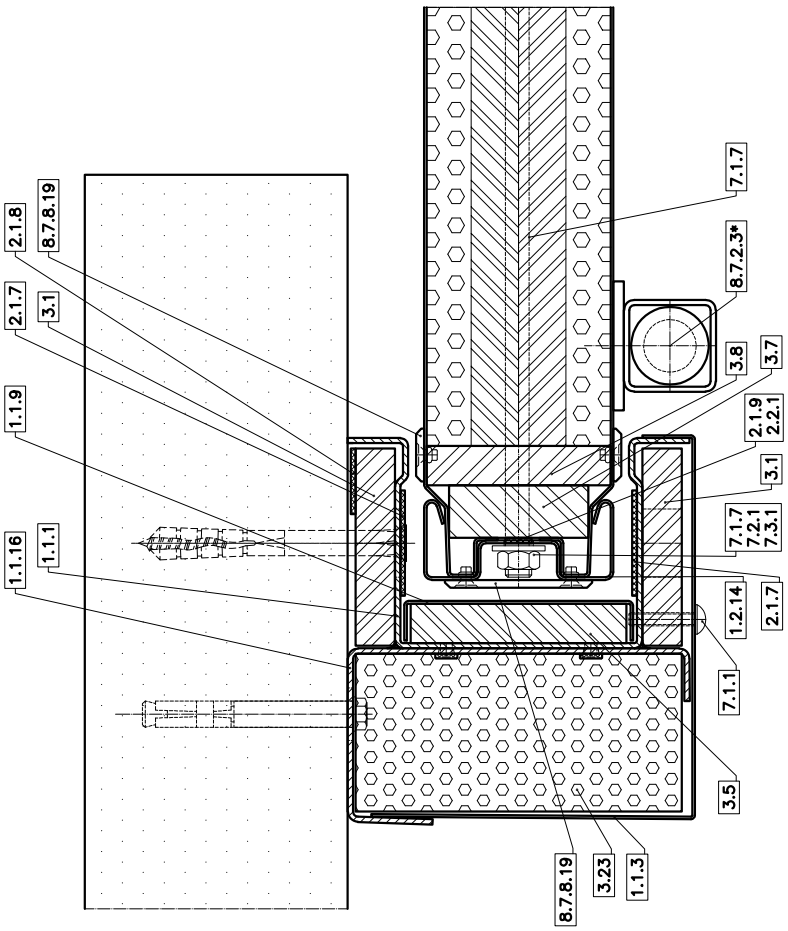
FAA-HT-1 (vertical closing sliding leaves; without counterweight) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-11**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Closing device (closing weight system), guide for the sliding leaf and sliding leaf – Details – Installation drawing – top-view (sectional view)



FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-12**

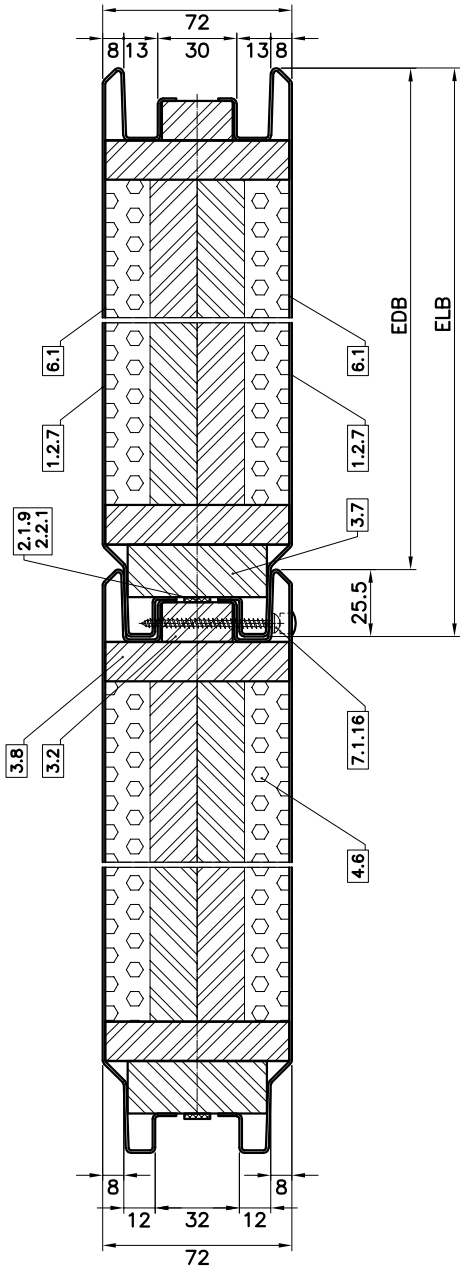
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Insulation profile, guide for the sliding leaf and sliding leaf – Details – Installation drawing – top-view (sectional view)



*optional

FAA-HT-1 (vertical closing sliding leaves; without counterweight) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX B-13**

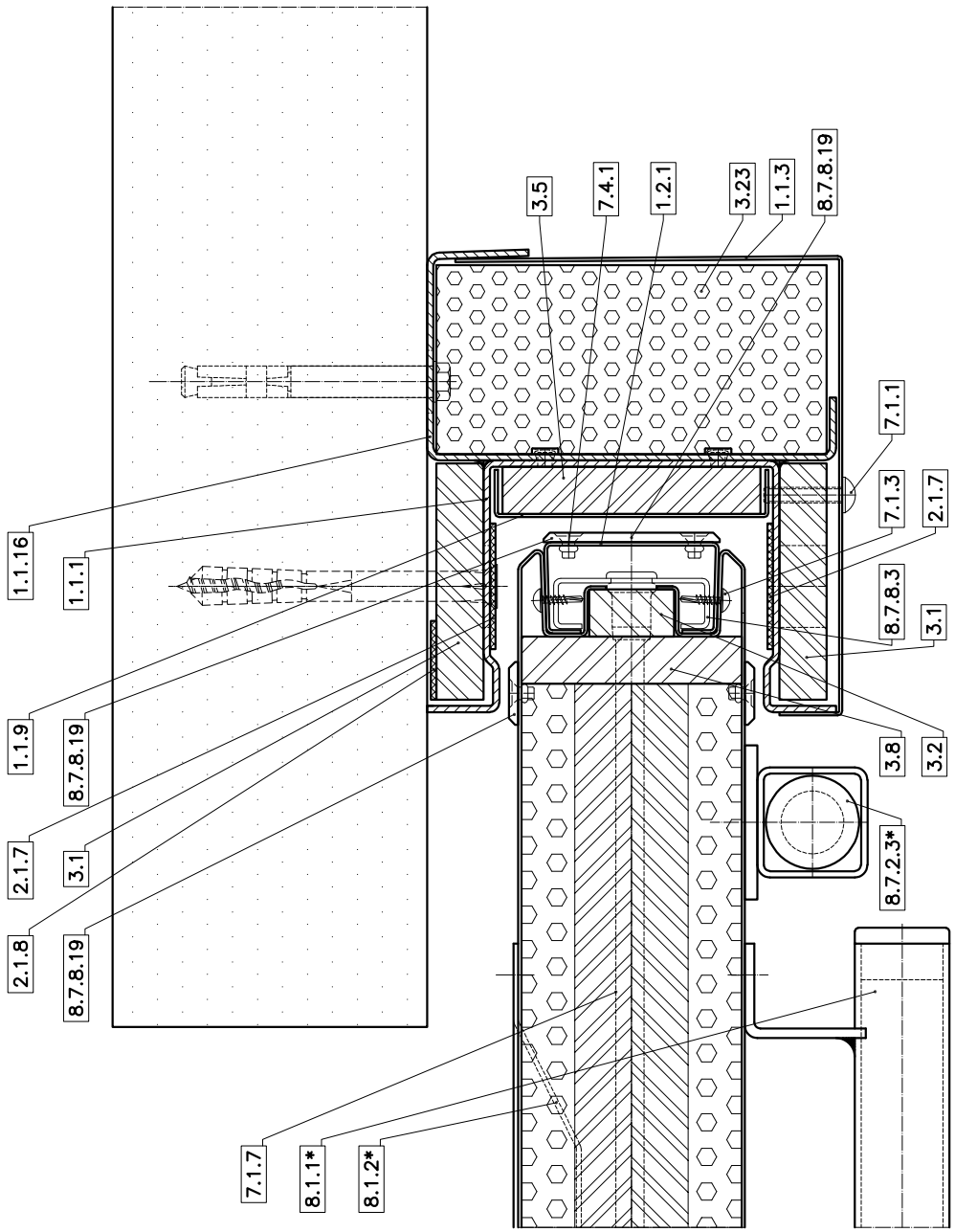
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Sliding leaf – Details – Installation drawing – top-view (sectional view)



all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-14**

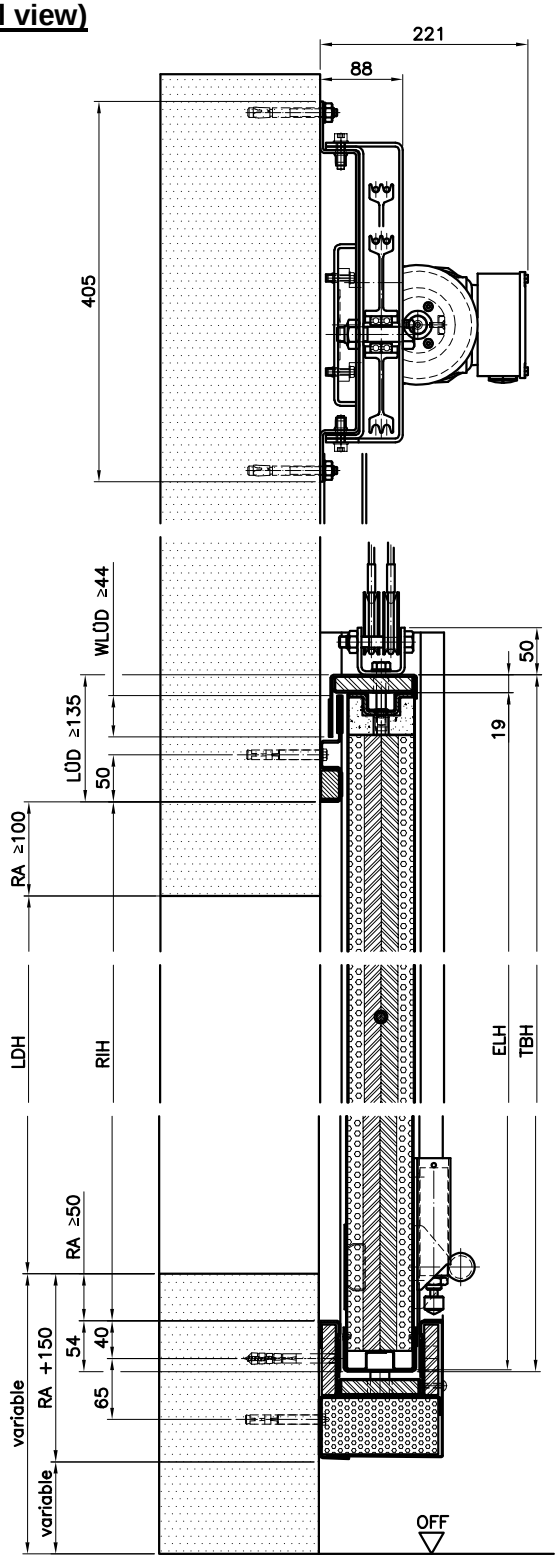
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Insulation profile, guide for the sliding leaf and sliding leaf – Details – Installation drawing – top-view (sectional view)



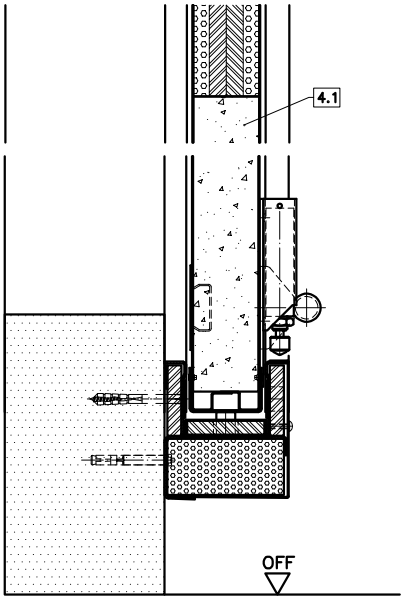
*optional

FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-15**

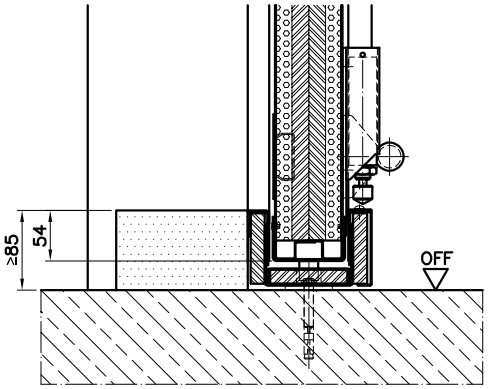
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – side-view (sectional view)



optional:
alternative filling



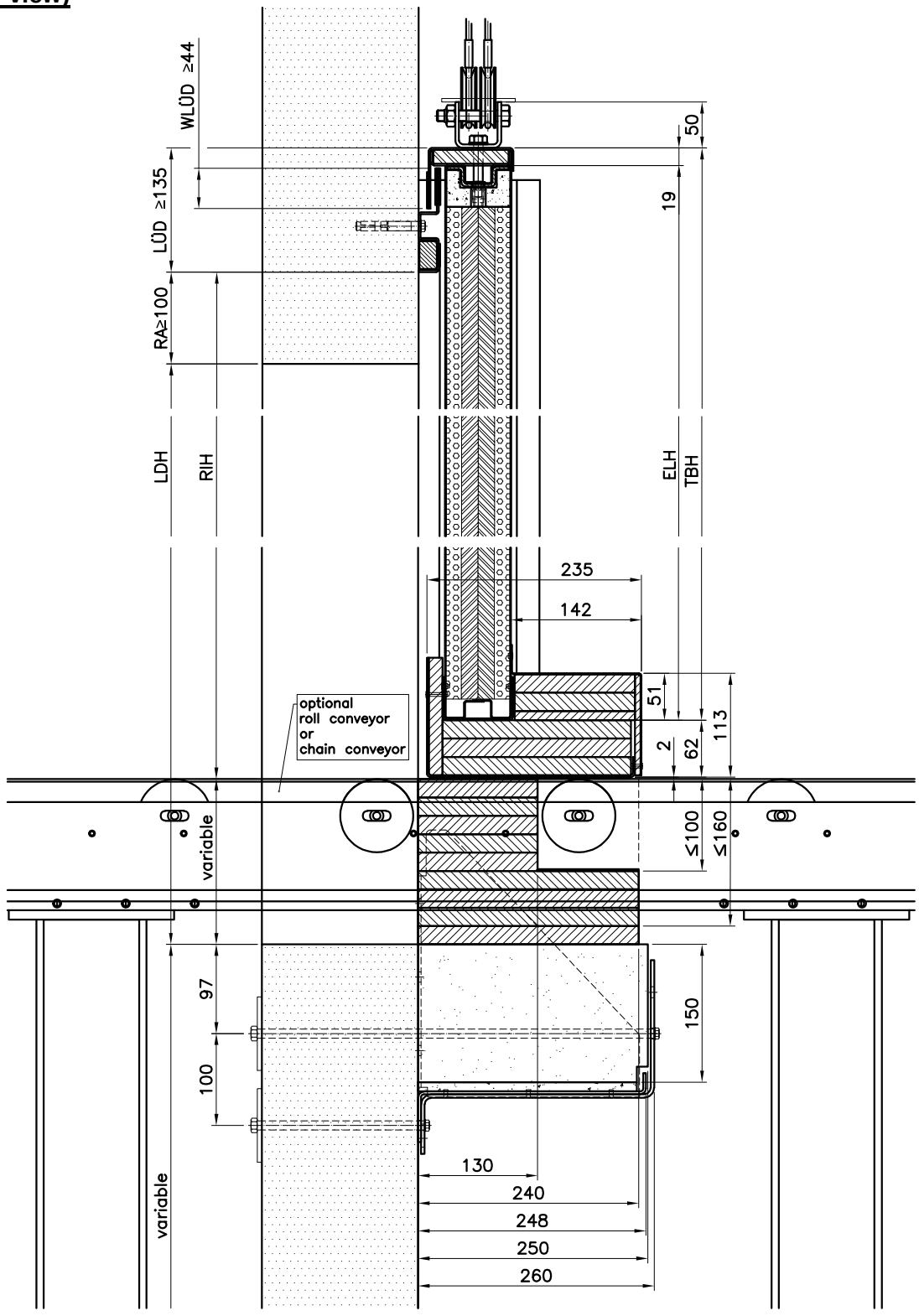
optional:
alternative connection



all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-16**

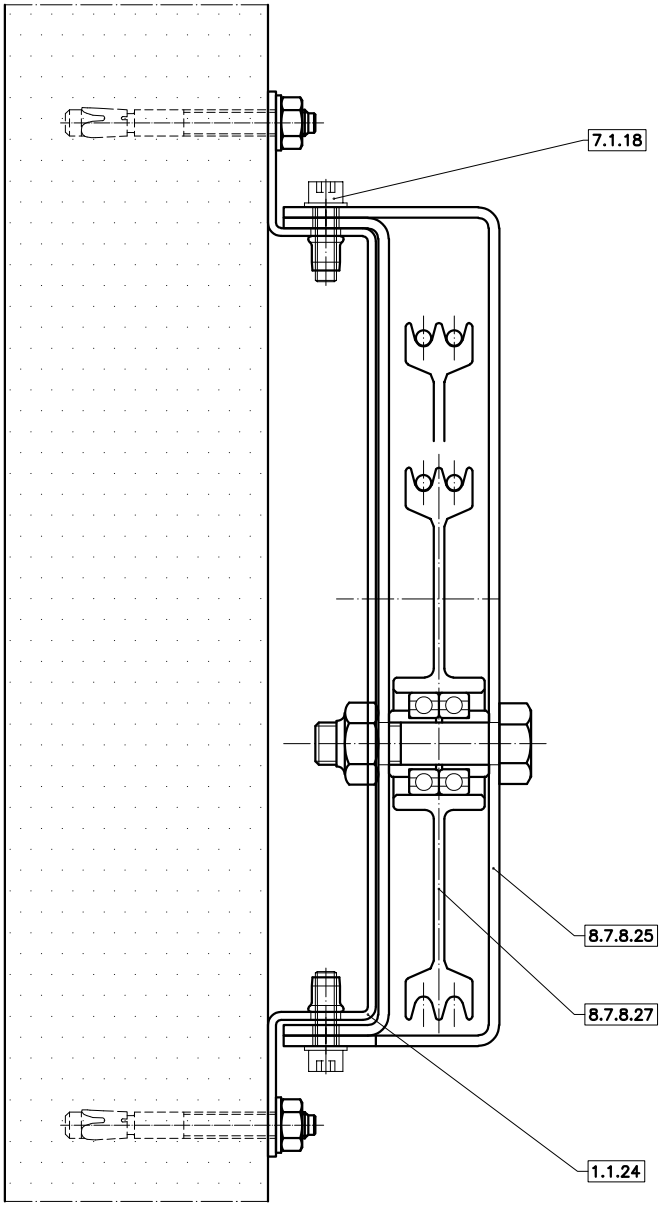
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – side-view (sectional view)



all dimensions in mm

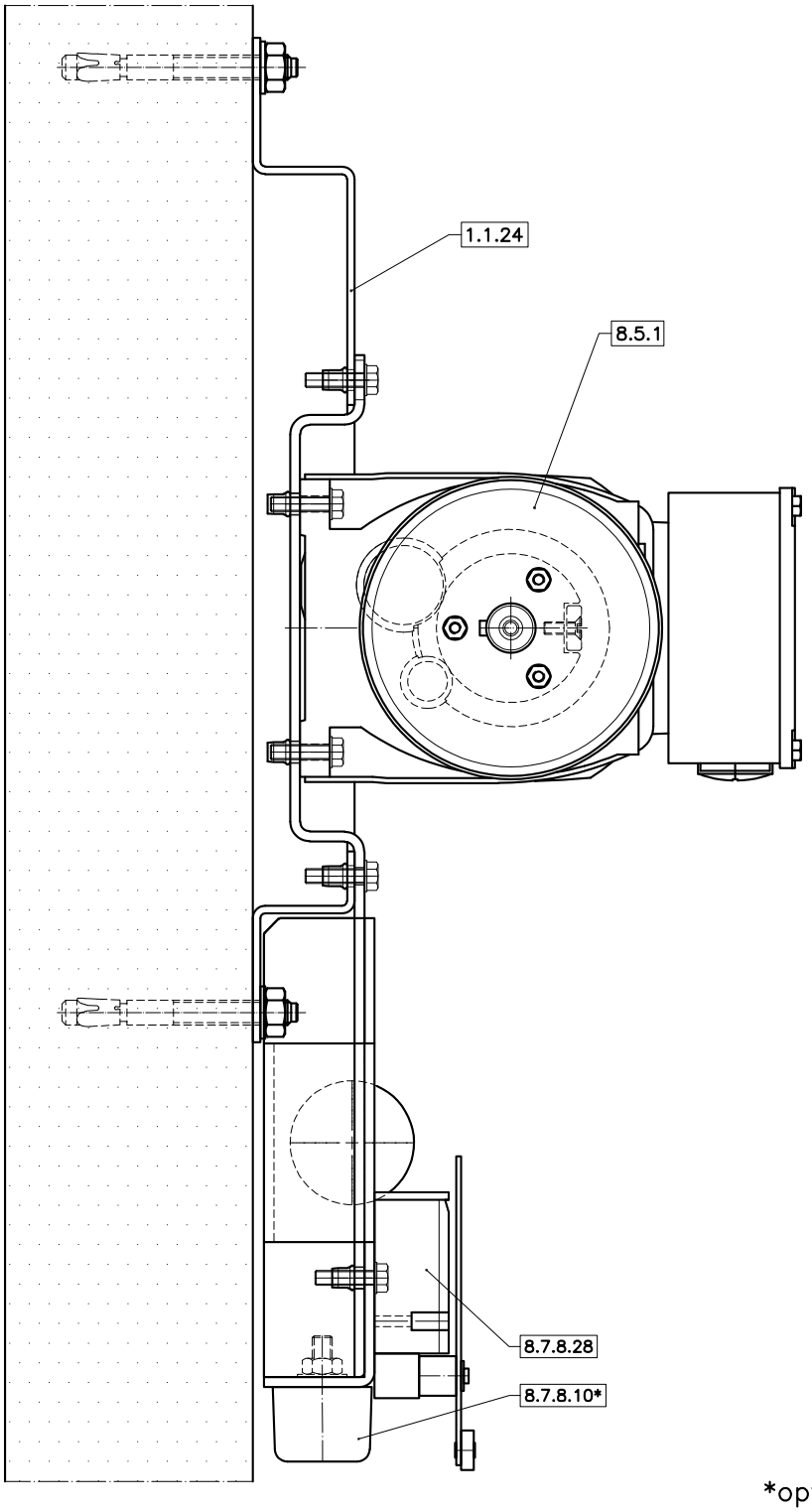
FAA-HT-1 (vertical closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-17**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Support profile (cap profile) and cable pulleys (incl. consoles) – Details – Installation drawing – top-view (sectional view)



FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-18**

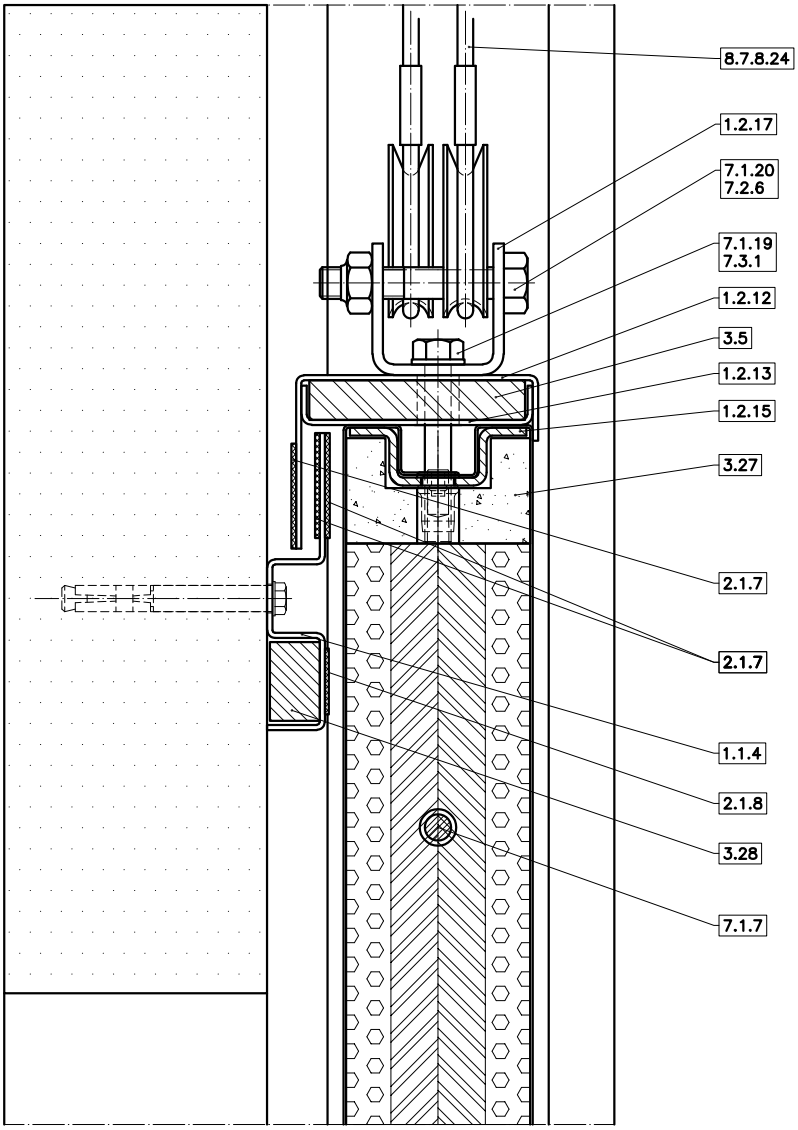
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Support profile (cap profile), motor console and gear motor with brake – Details – Installation drawing – top-view (sectional view)



*optional

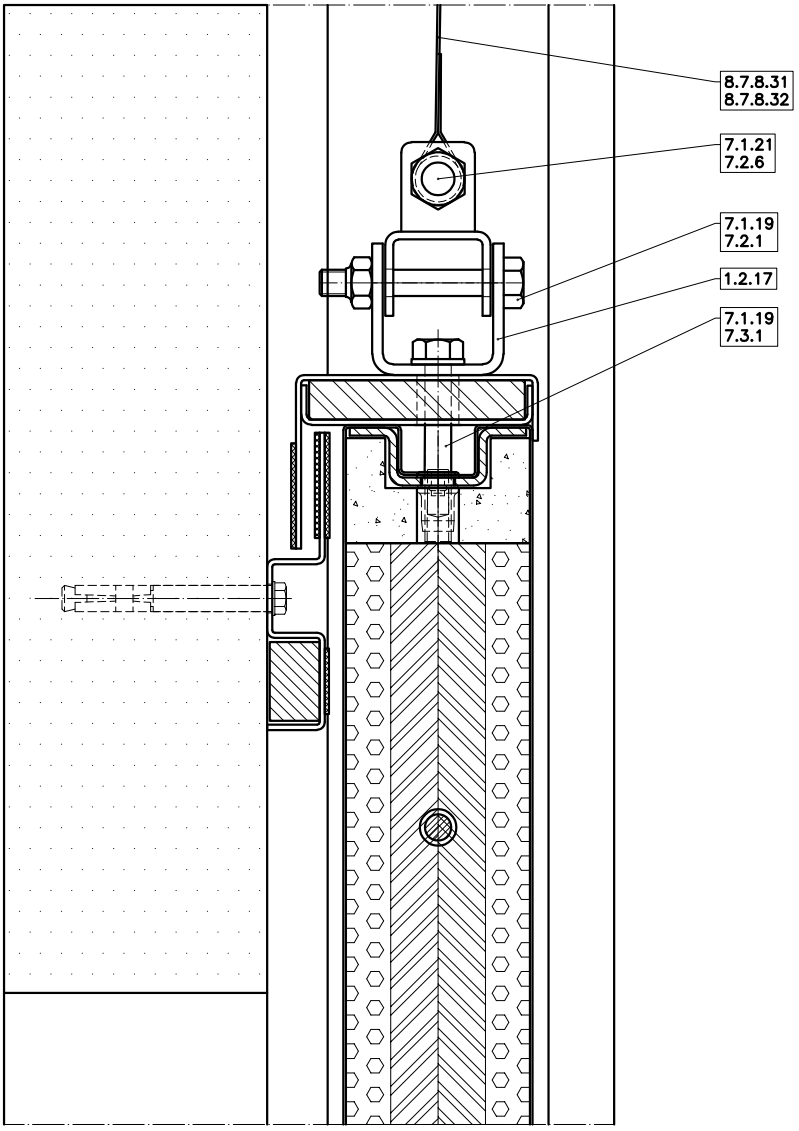
FAA-HT-1 (vertical closing sliding leaves; without counterweight) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX B-19**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Suspension ropes (incl. thimbles) sealing system and sliding leaf – Details – Installation drawing – side-view (sectional view)



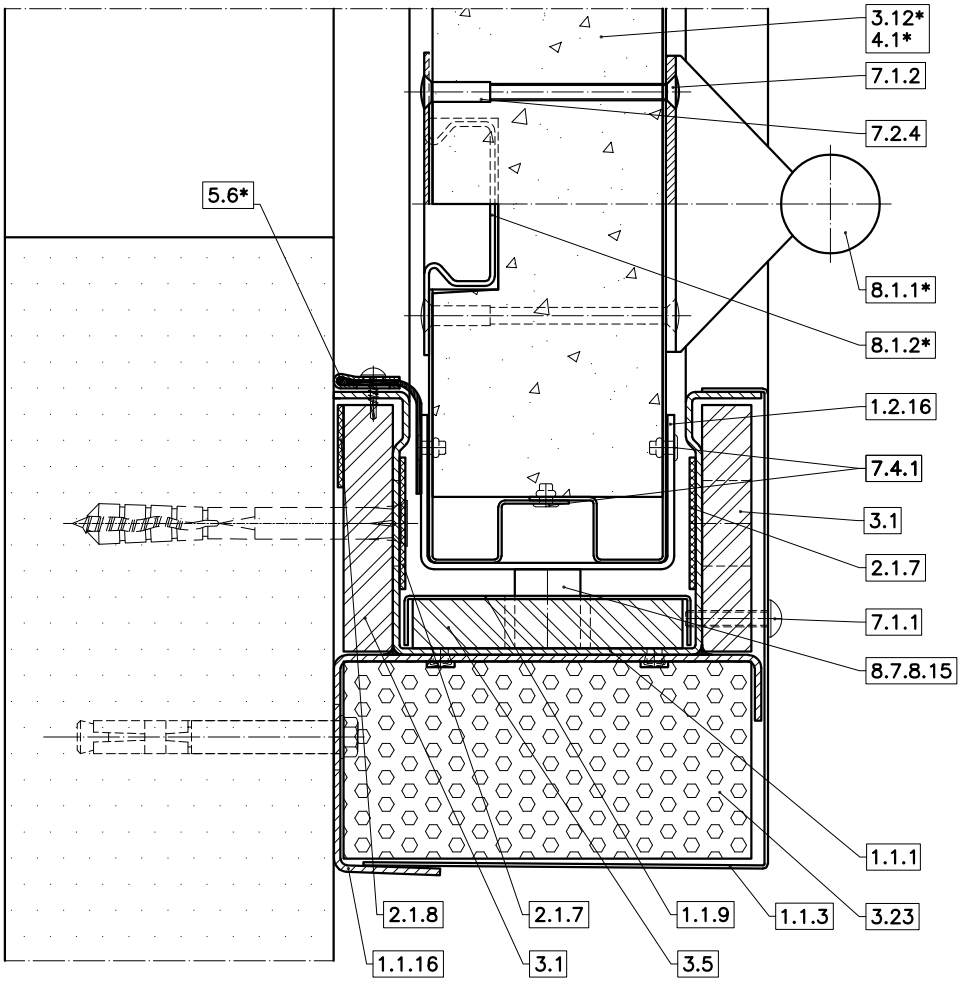
FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-20**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Fabric belts (incl. belt clamps), sealing system and sliding leaf – Details – Installation drawing – side-view (sectional view)



FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-21**

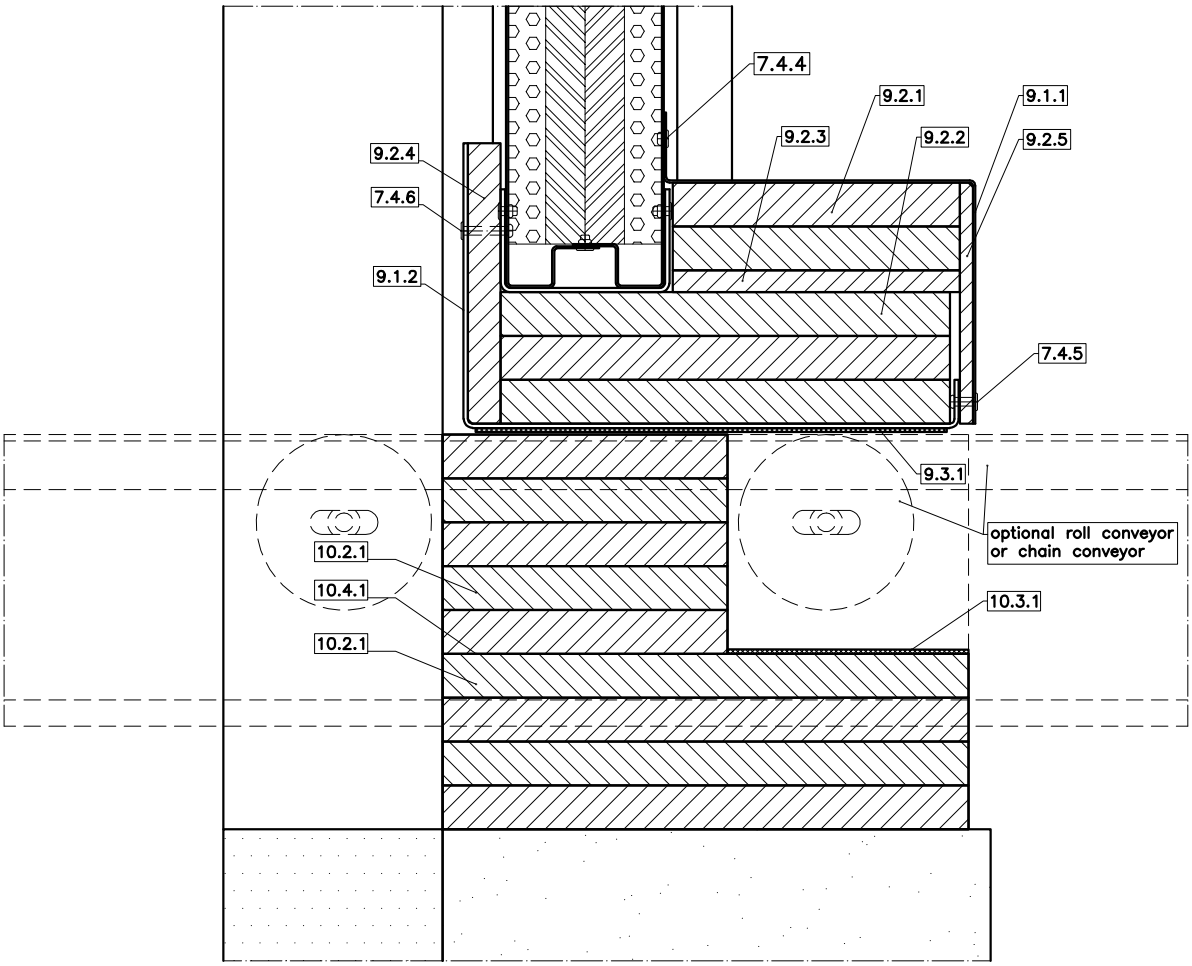
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Insulation profile, guide for the sliding leaf and sliding leaf – Details – Installation drawing – side-view (sectional view)



*optional

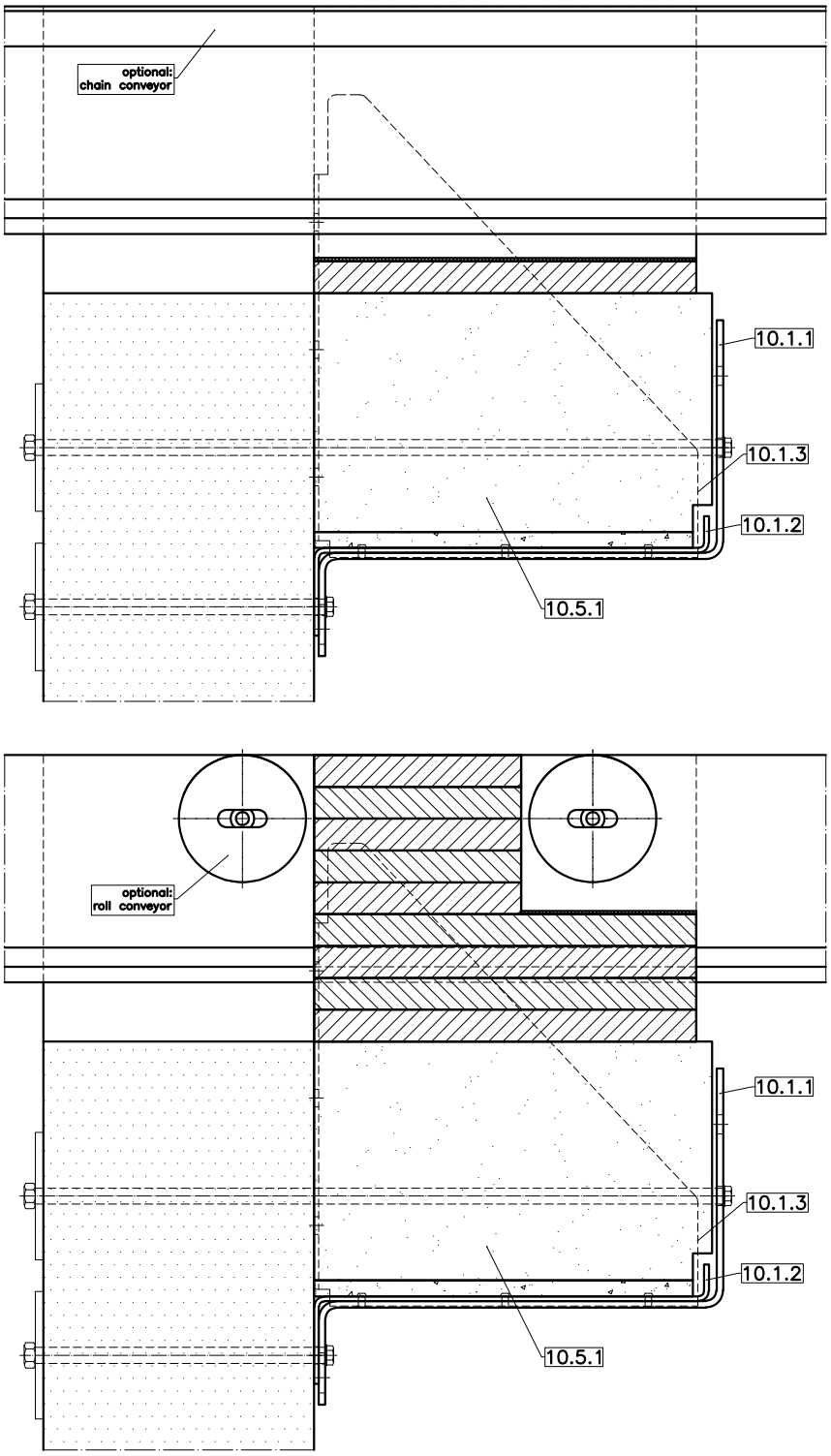
FAA-HT-1 (vertical closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-22**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Sealing block, fixed panel for the conveyor and sliding leaf – Details – Installation drawing – side-view (sectional view)



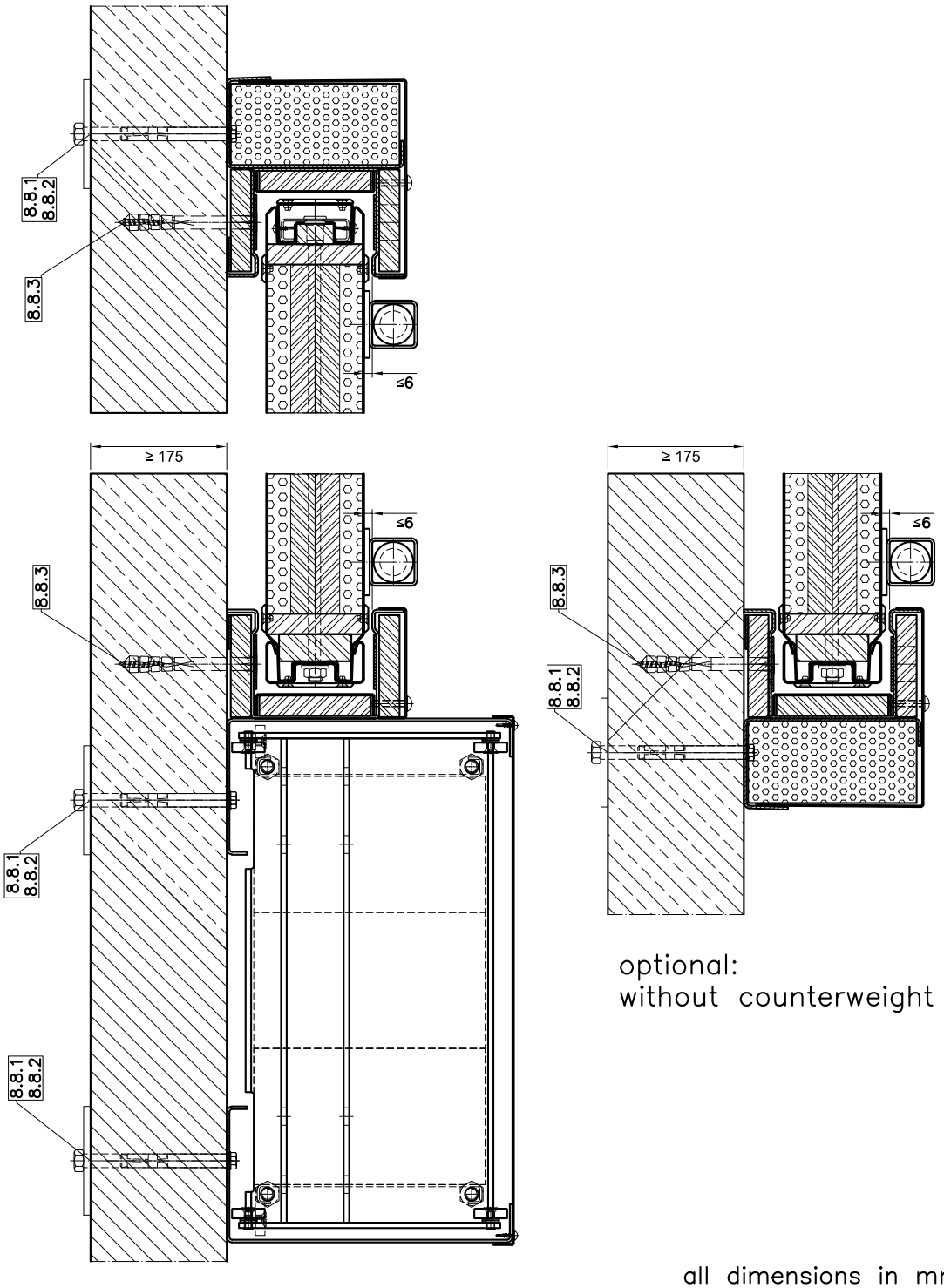
FAA-HT-1 (vertical closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-23**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Fixed panel for the conveyor – Details – Installation drawing – side-view (sectional view)



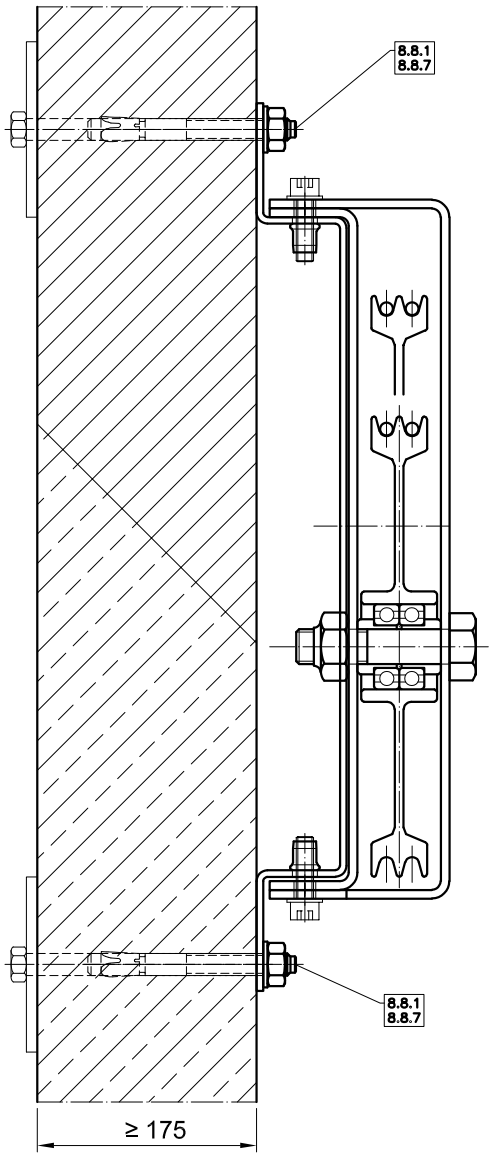
FAA-HT-1 (vertical closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-24**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of closing device (closing weight system), guide for the sliding leaf and insulation profile in walls made of masonry and normal concrete – Installation drawing – top-view (sectional view)



FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-25**

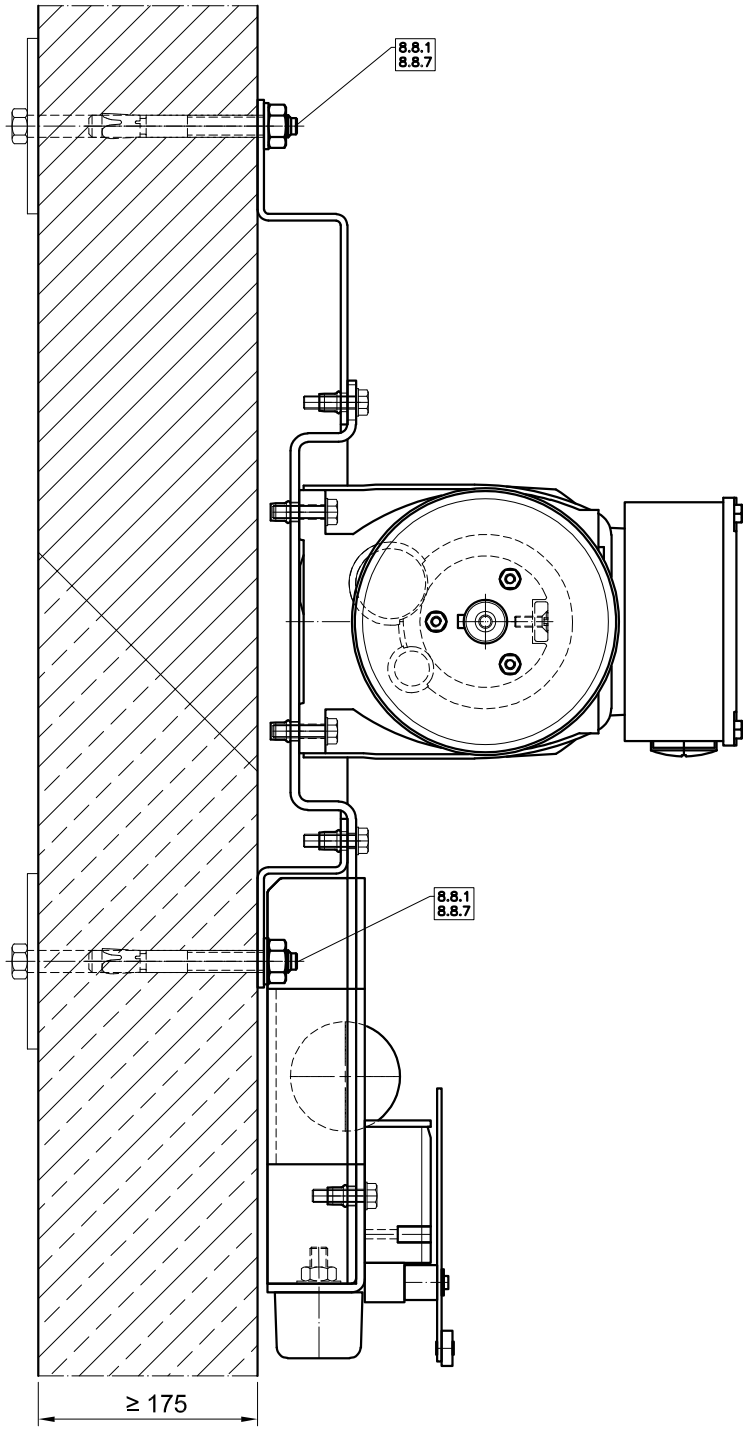
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of installation profile (cap profile) in walls made of masonry and normal concrete – Installation drawing – side-view (sectional view)



all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-26**

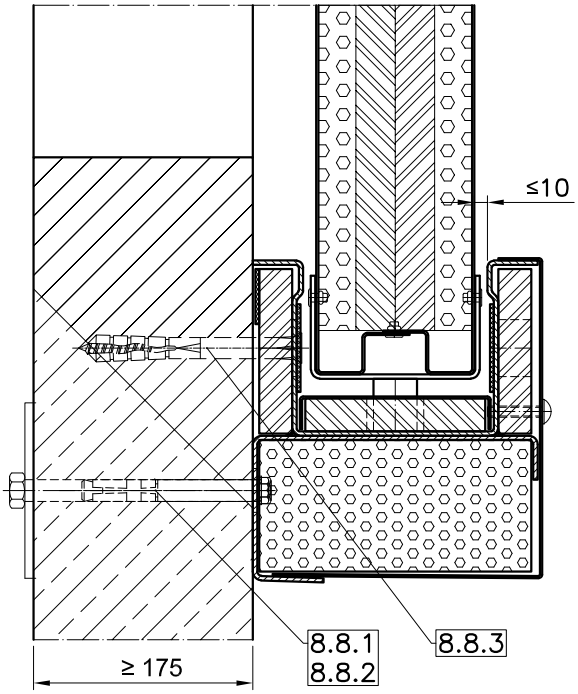
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of installation profile (cap profile) in walls made of masonry and normal concrete – Installation drawing – side-view (sectional view)

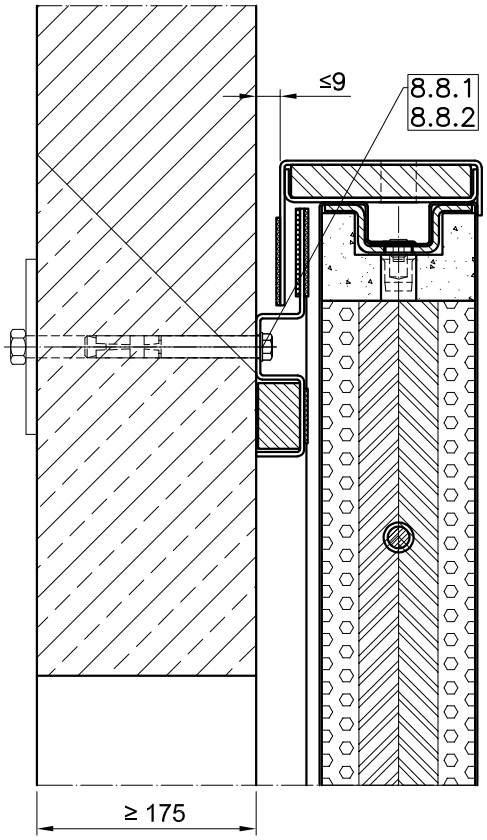


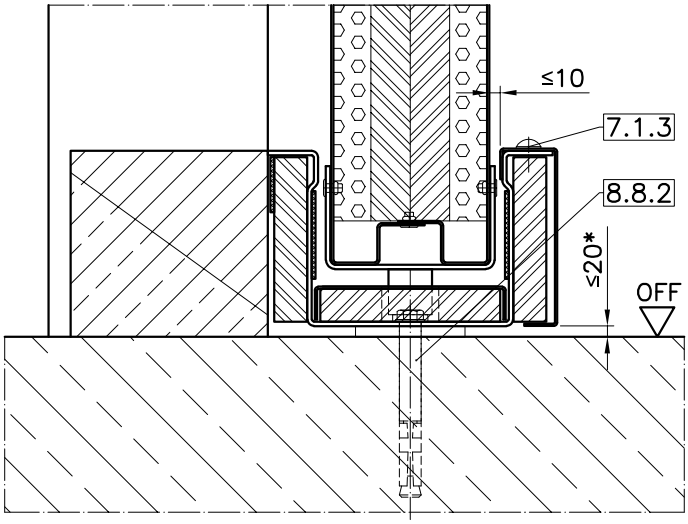
all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves; without counterweight) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX B-27**

FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of sealing system, guide for the sliding leaf and insulation profile in walls made of masonry and normal concrete Installation drawing – side-view (sectional view)





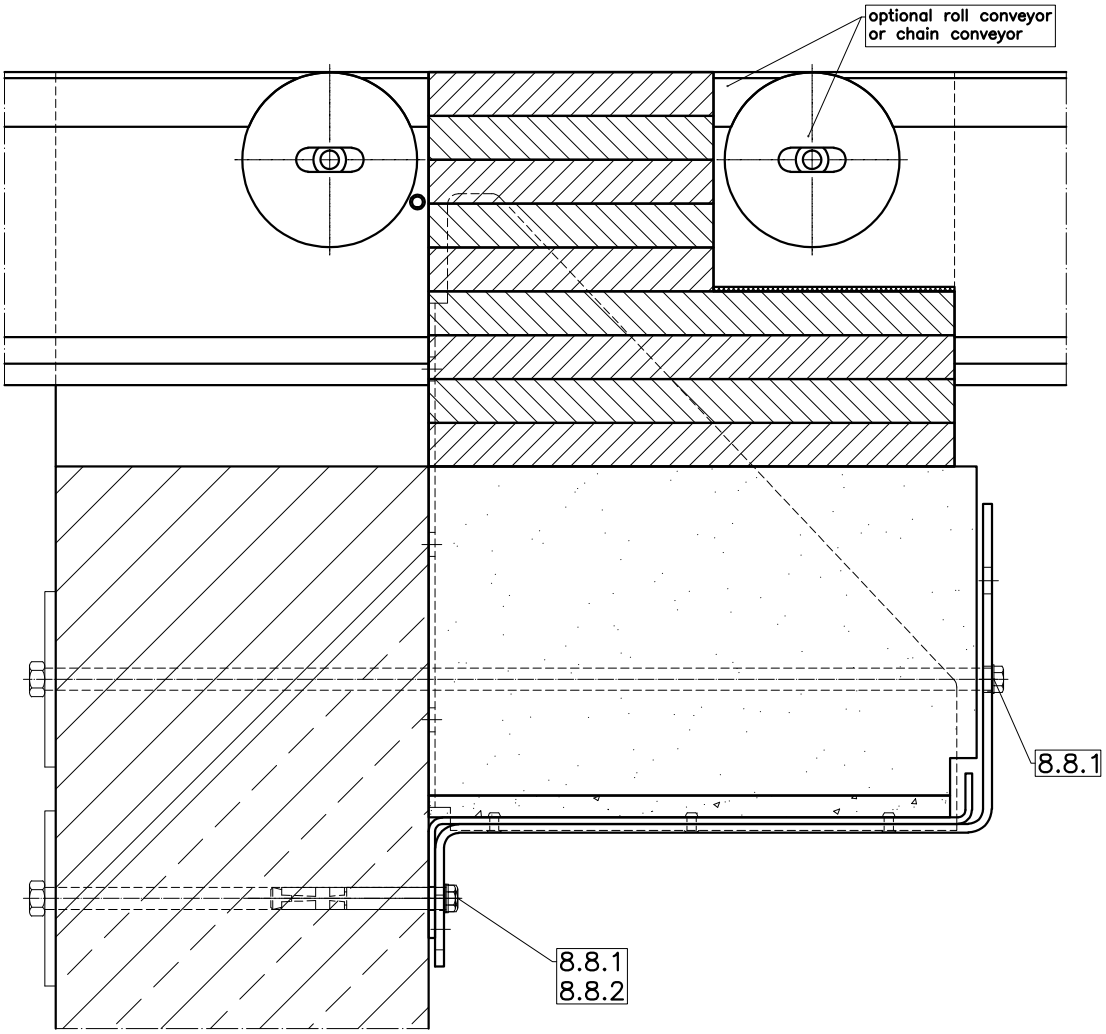


optional:
alternative connection

*gap width >5 mm: backfilling with mineral wool according to EN 13162 (classification A1 according to EN 13501−1, minimum density 50 kg/m³); all dimensions in mm

FAA-HT-1 (vertical closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-28**

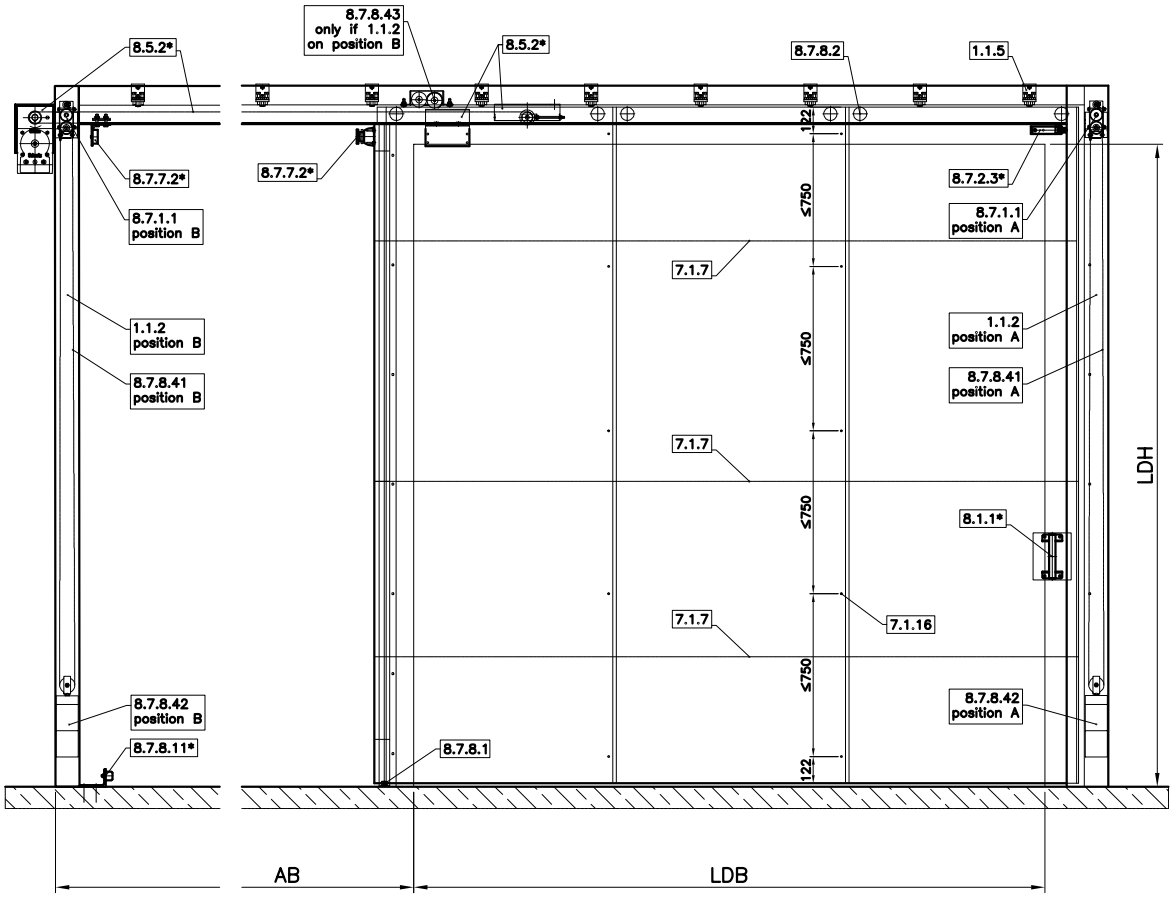
FAA-HT-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of fixed panel with clearance for the conveyor in walls made of masonry and normal concrete Installation drawing – side-view (sectional view)



FAA-HT-1 (vertical closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX B-29**

Member of EOTA

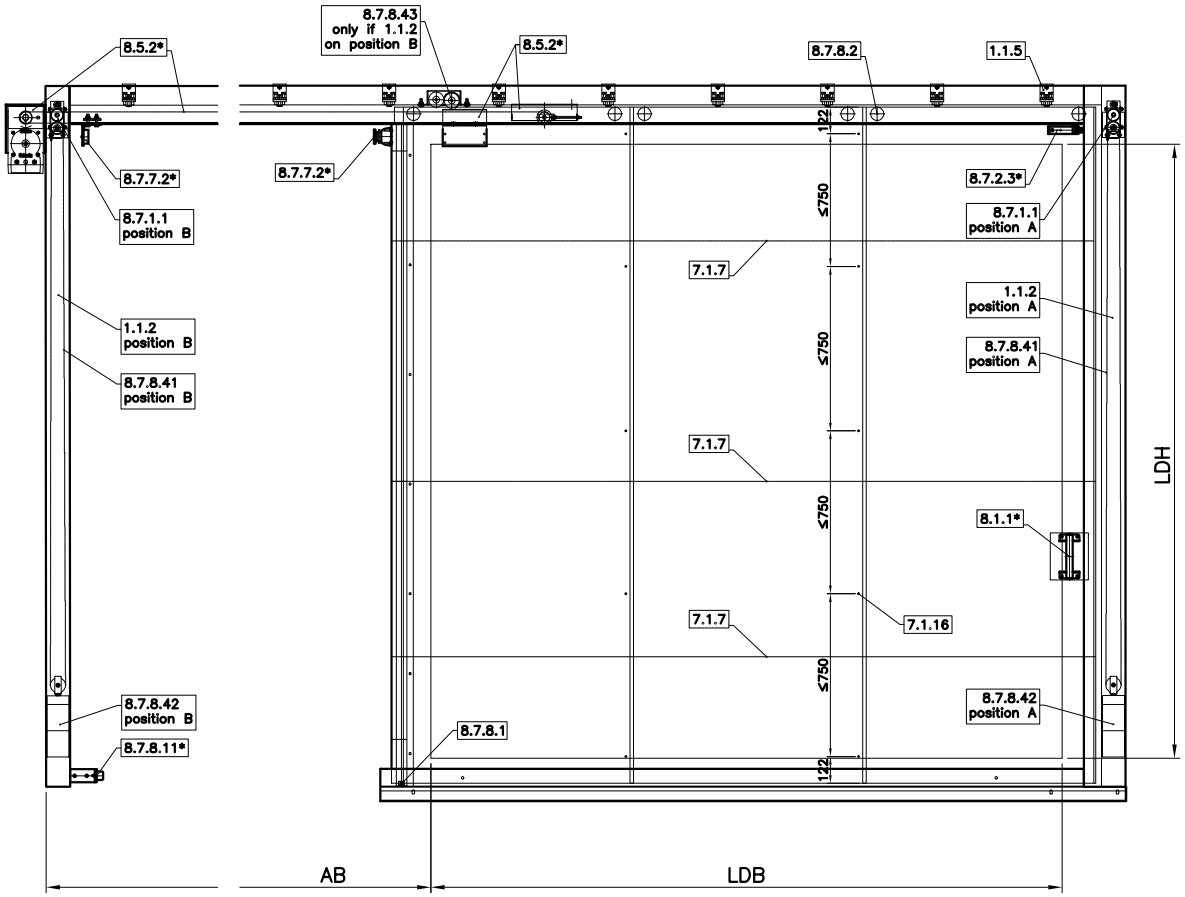
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view



all dimensions in mm; *optional

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-1**

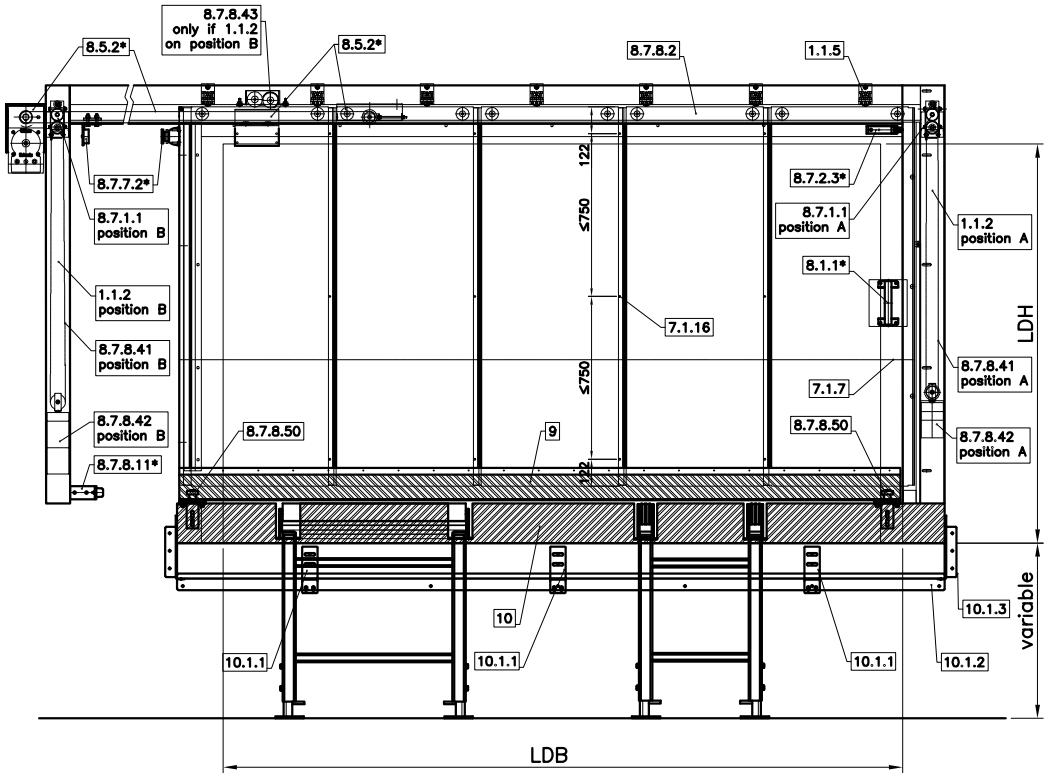
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view



all dimensions in mm; *optional

FAA-ST-1 (horizontal closing sliding leaves; raised position) for discontinued conveyor systems - Installation in rigid wall -	**ANNEX C-2**

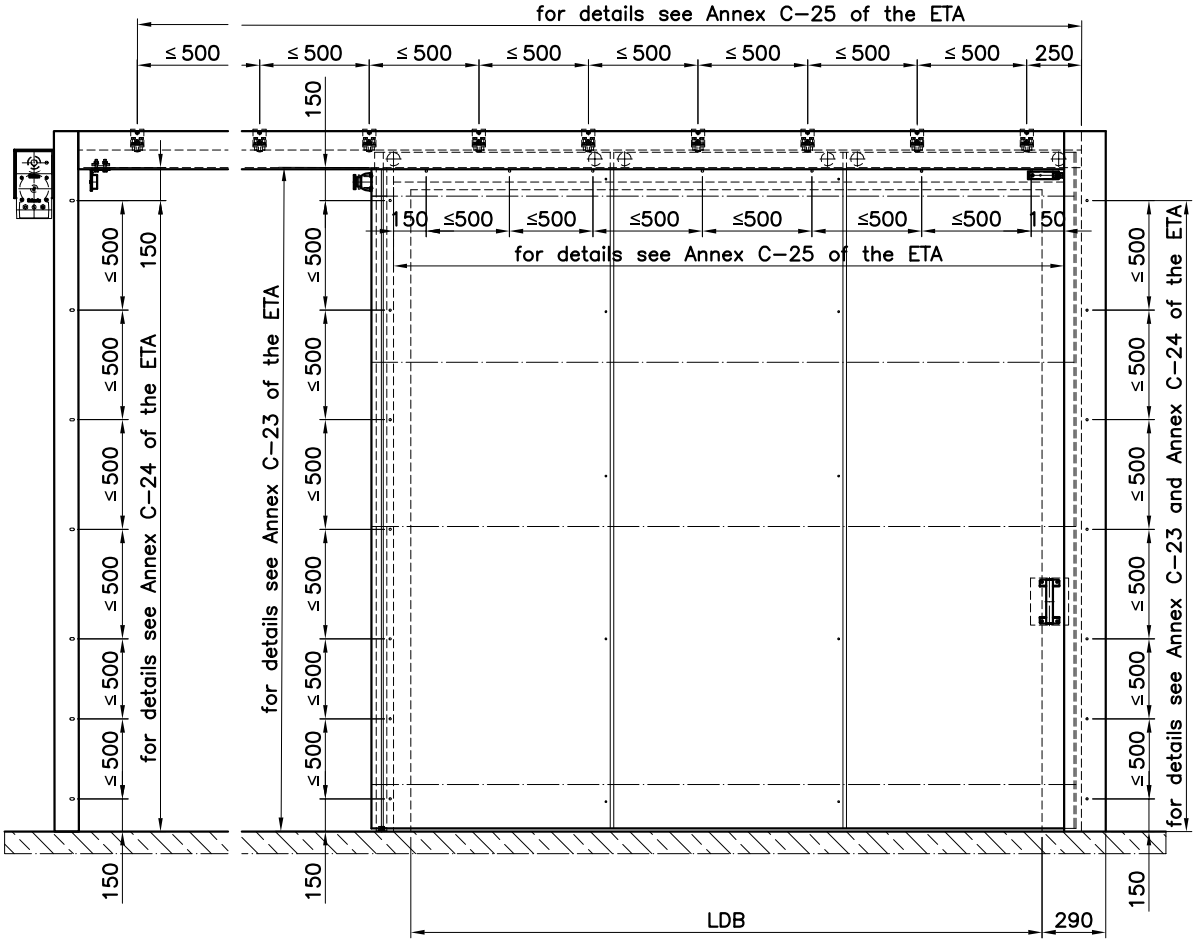
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – front view



all dimensions in mm; *optional

FAA-ST-1 (horizontal closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-3**

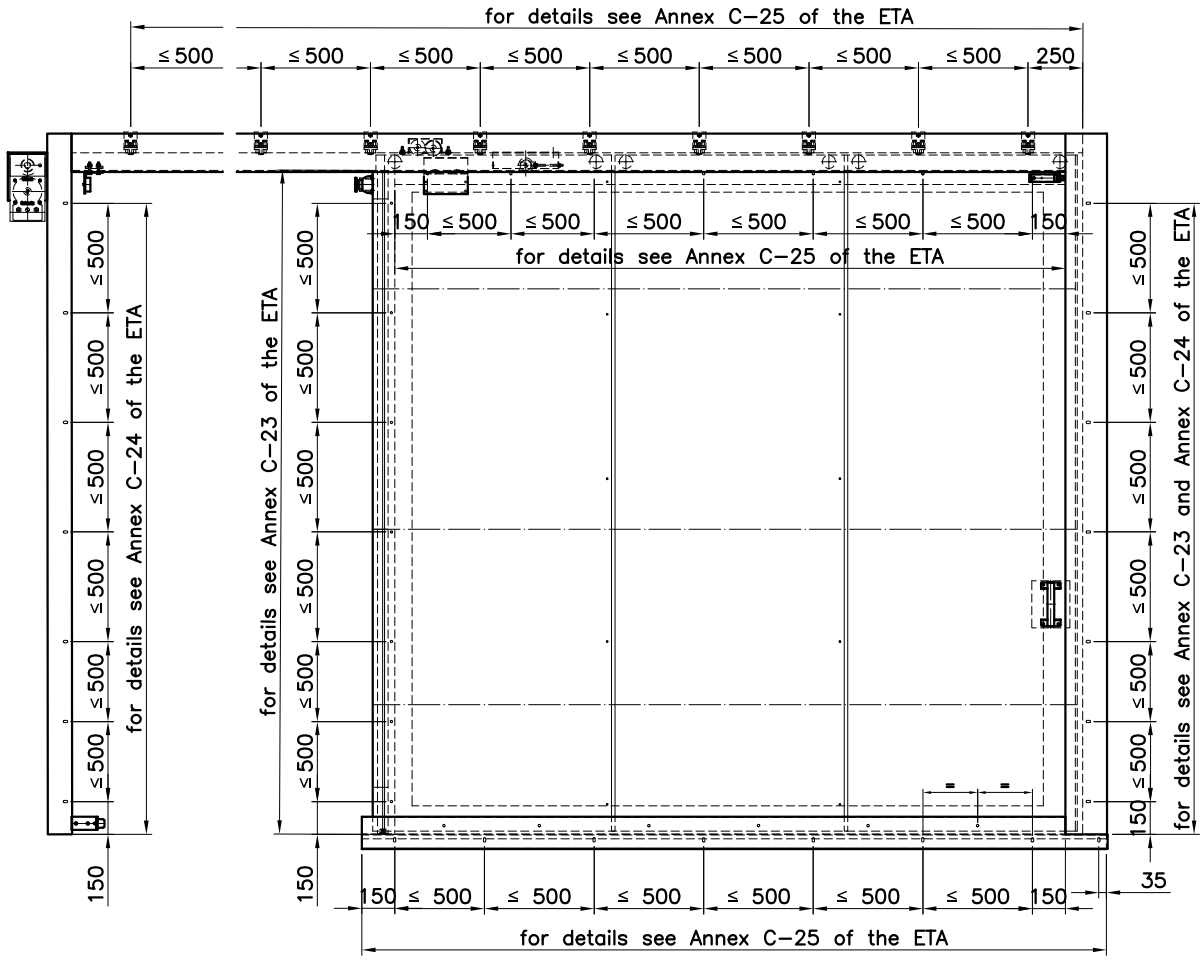
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-4**

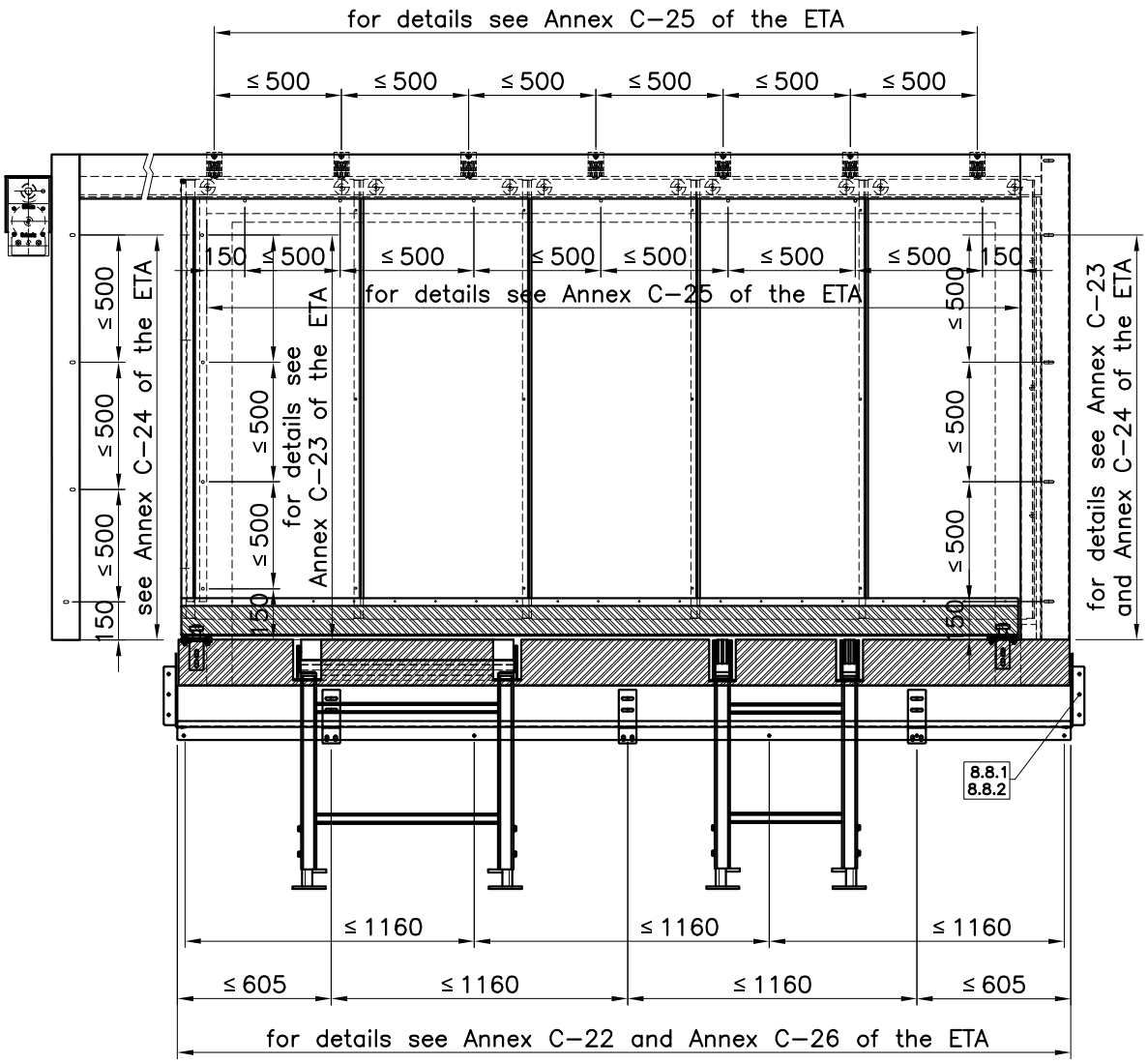
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves; raised position) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-5**

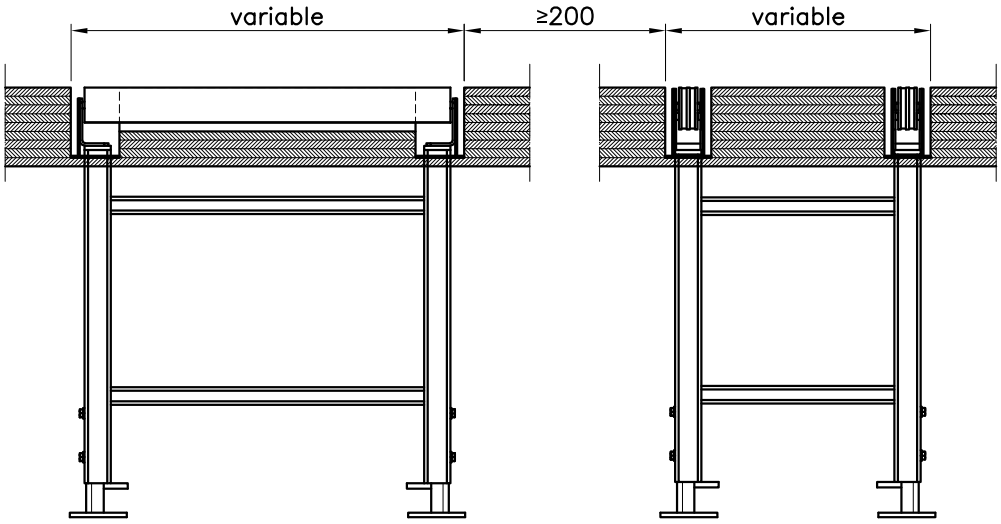
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing – Installation drawing – front view



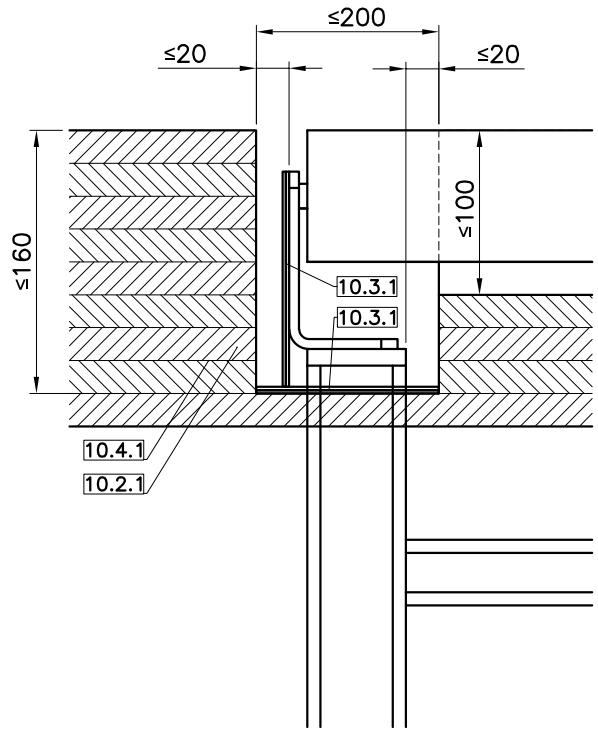
all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-6**

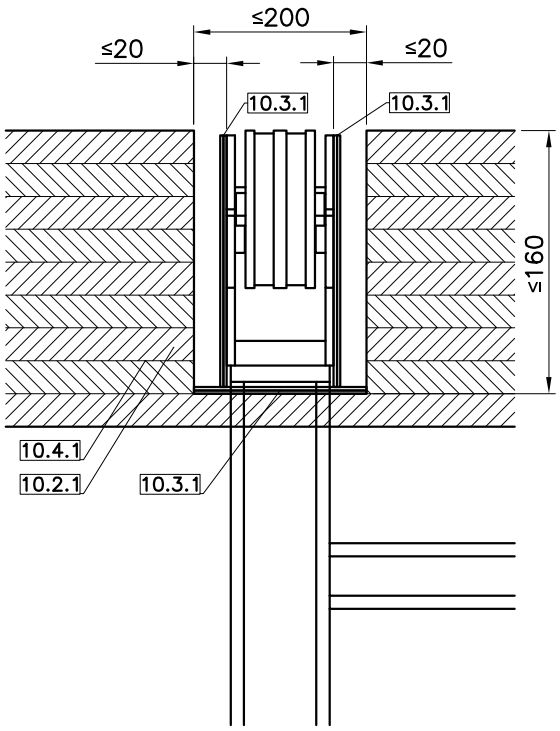
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Fixed paned with clearance for the conveyor – Installation drawing and clearances – front view



roll conveyor



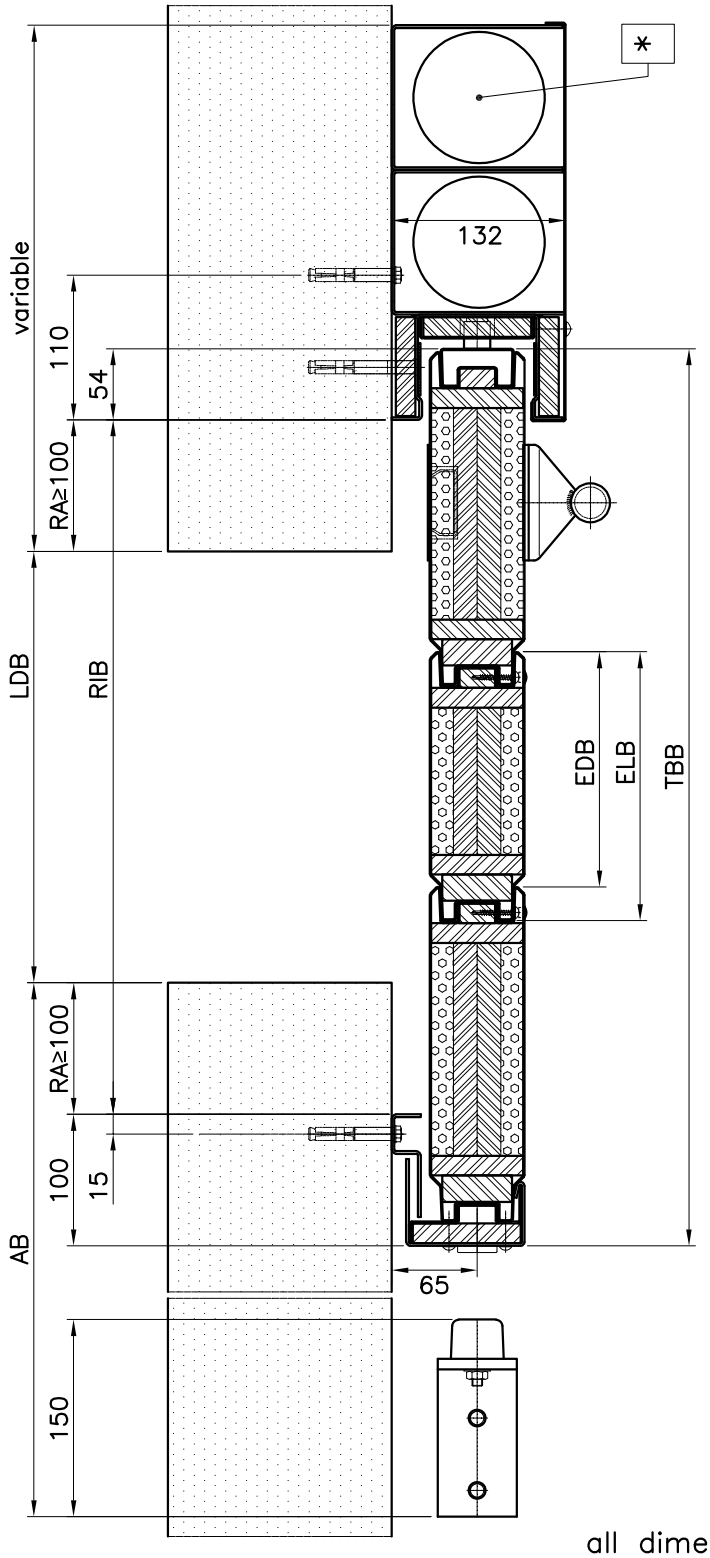
chain conveyor



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-7**

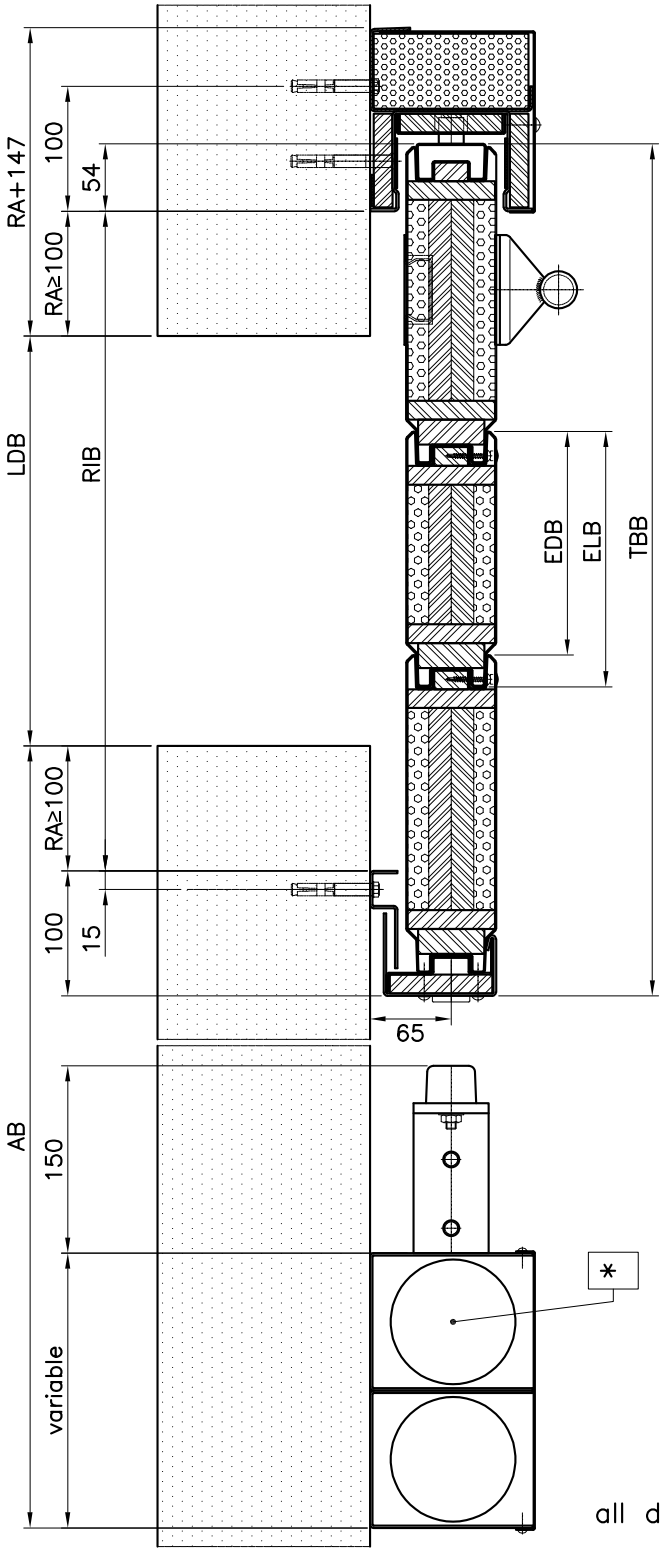
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – top-view (sectional view)



*optional
all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-8**

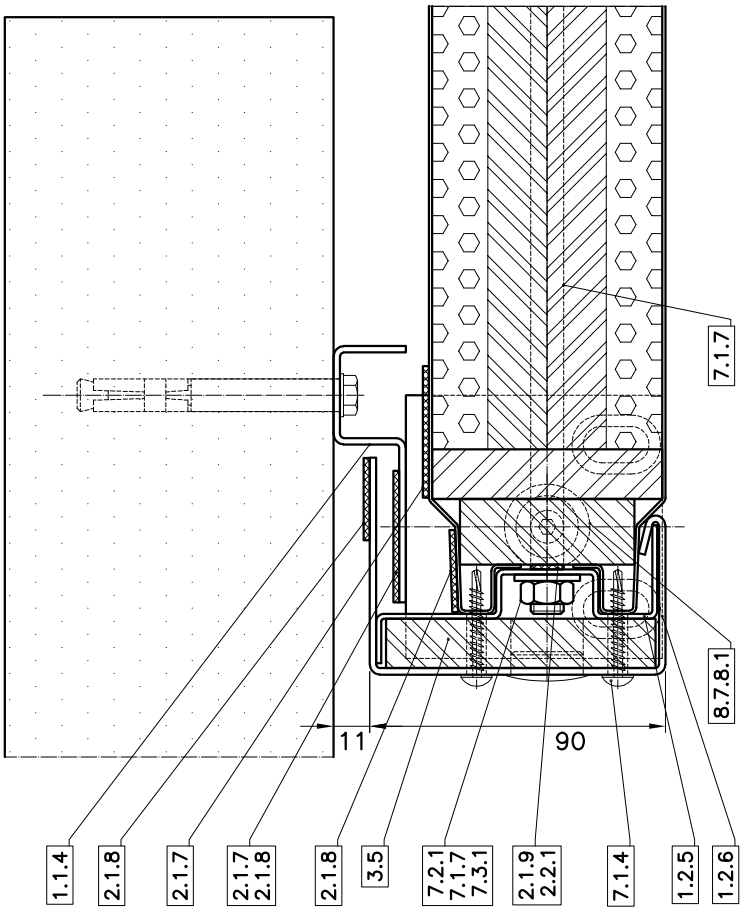
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – top-view (sectional view)



*optional
all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-9**

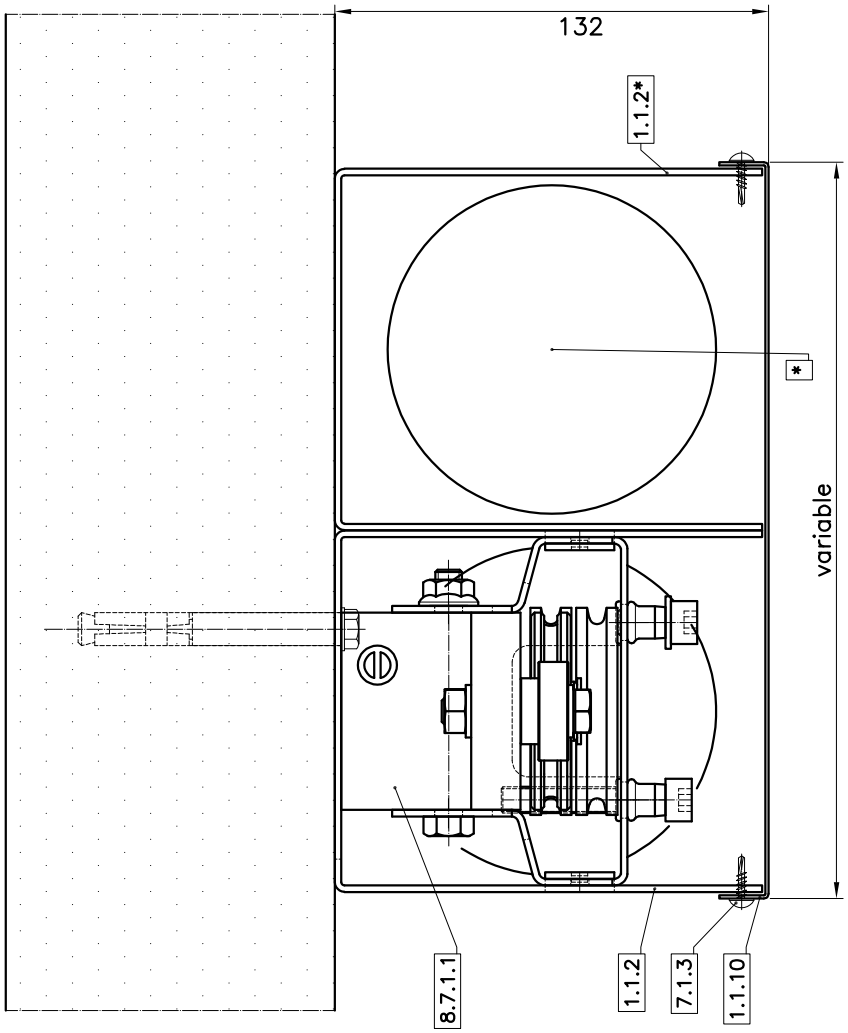
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Sliding leaf and labyrinth profile of the sealing system – Installation drawing – top-view (sectional view)



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-10**

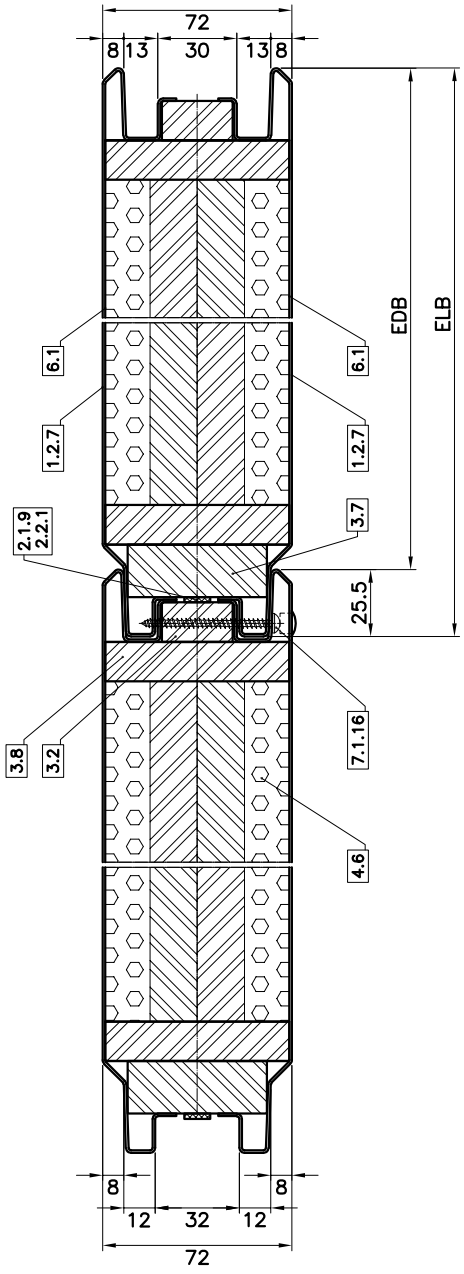
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Closing device (closing weight system) – Details – Installation drawing – top-view (sectional view)



all dimensions in mm; *optional

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-11**

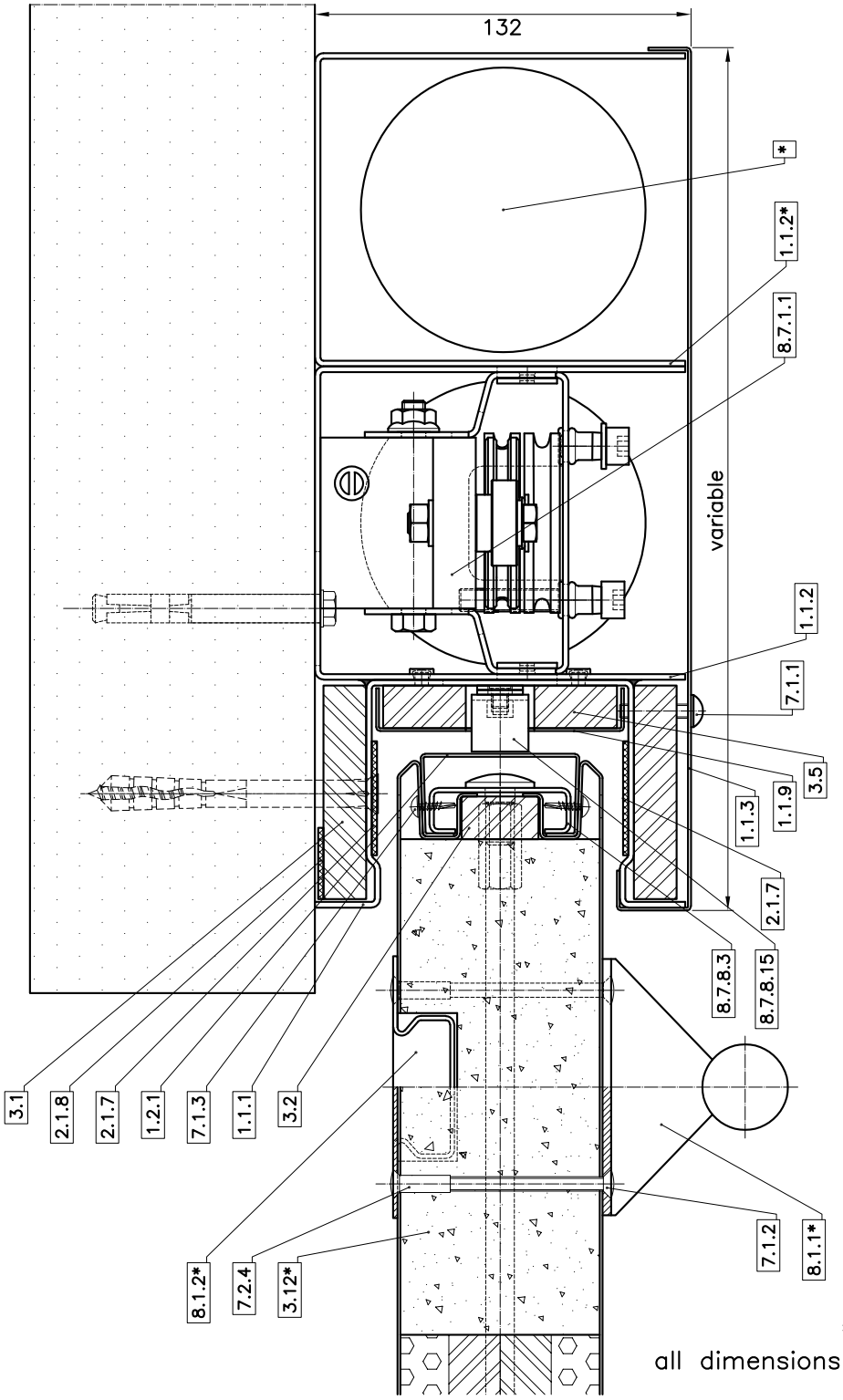
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Sliding leaf – Details – Installation drawing – top-view (sectional view)



all dimensions in mm

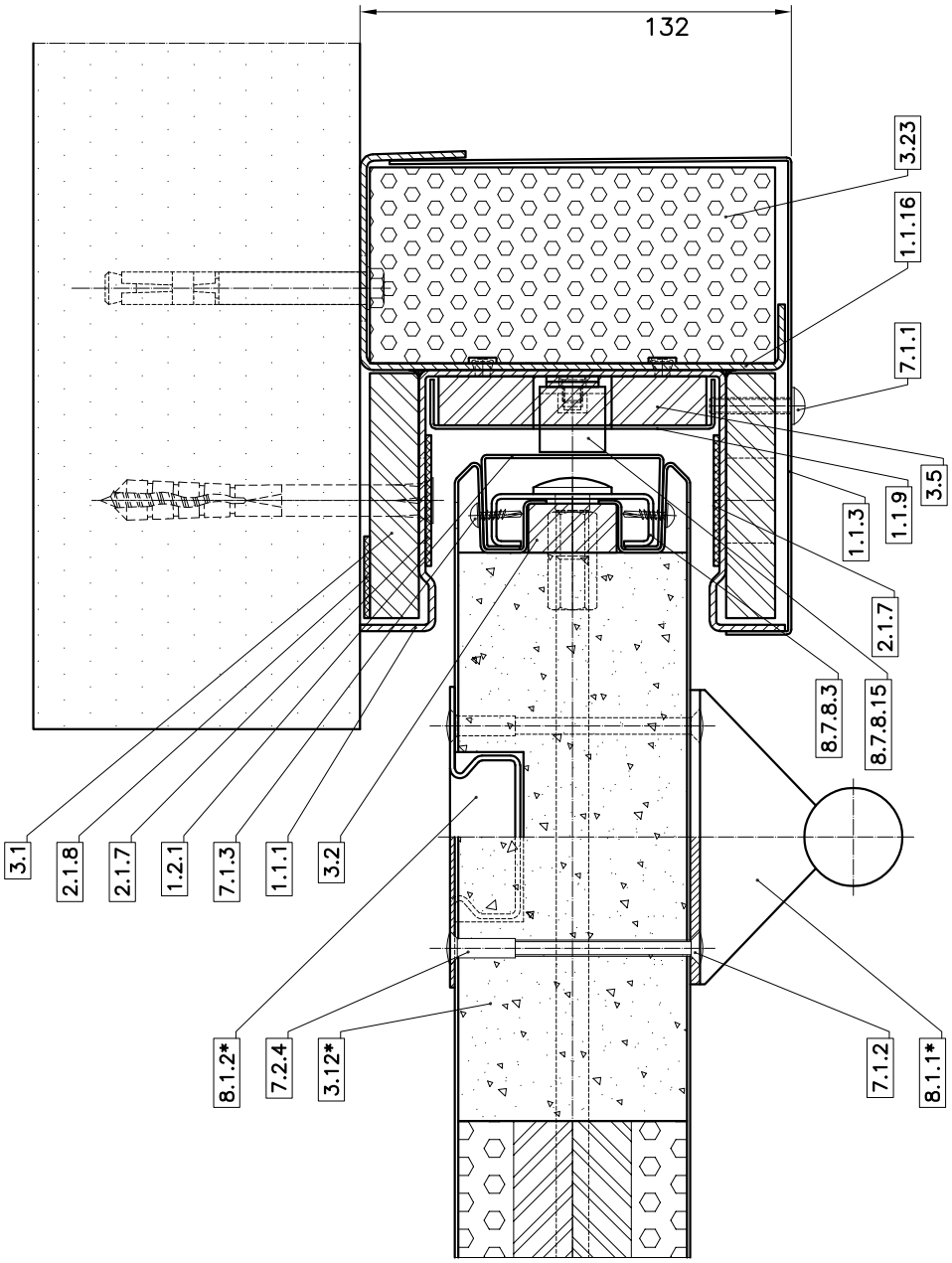
FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-12**

FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Closing device (closing weight system), guide for the sliding leaf and sliding leaf – Details – Installation drawing – top-view (sectional view)



FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-13**

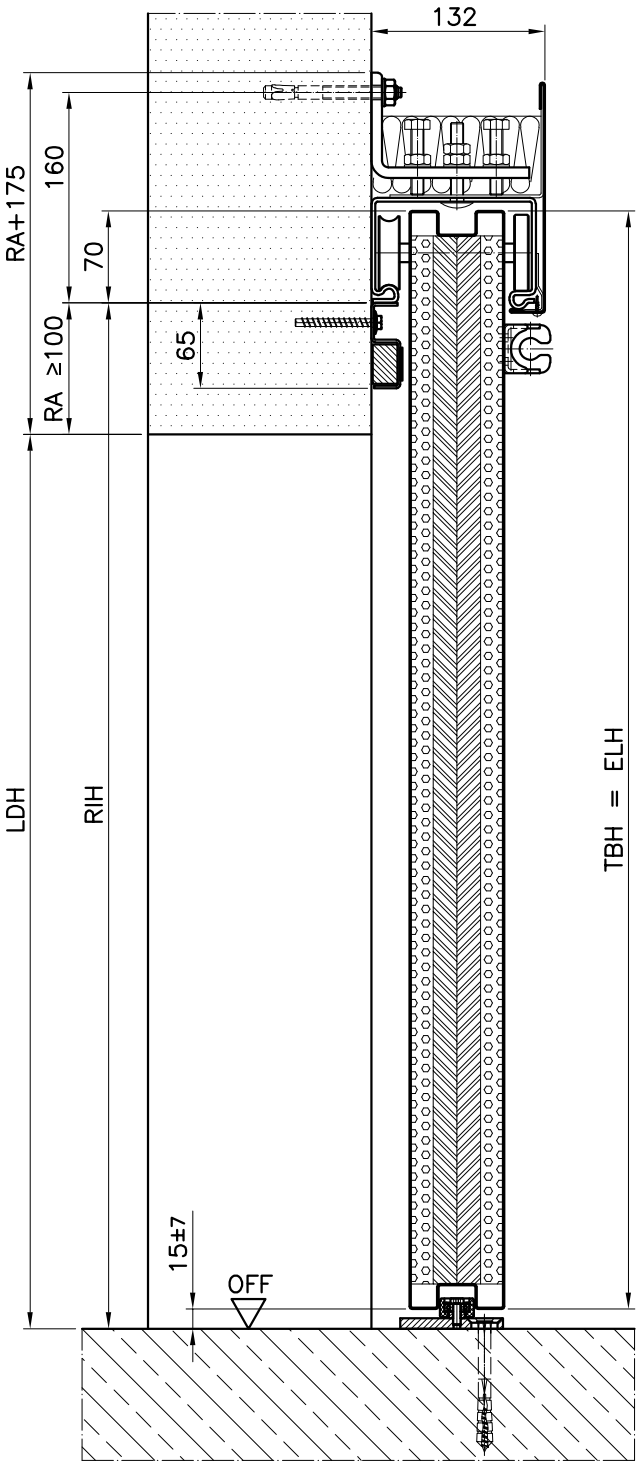
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Insulation profile, guide for the sliding leaf and sliding leaf – Details – Installation drawing – top-view (sectional view)



all dimensions in mm; *optional

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-14**

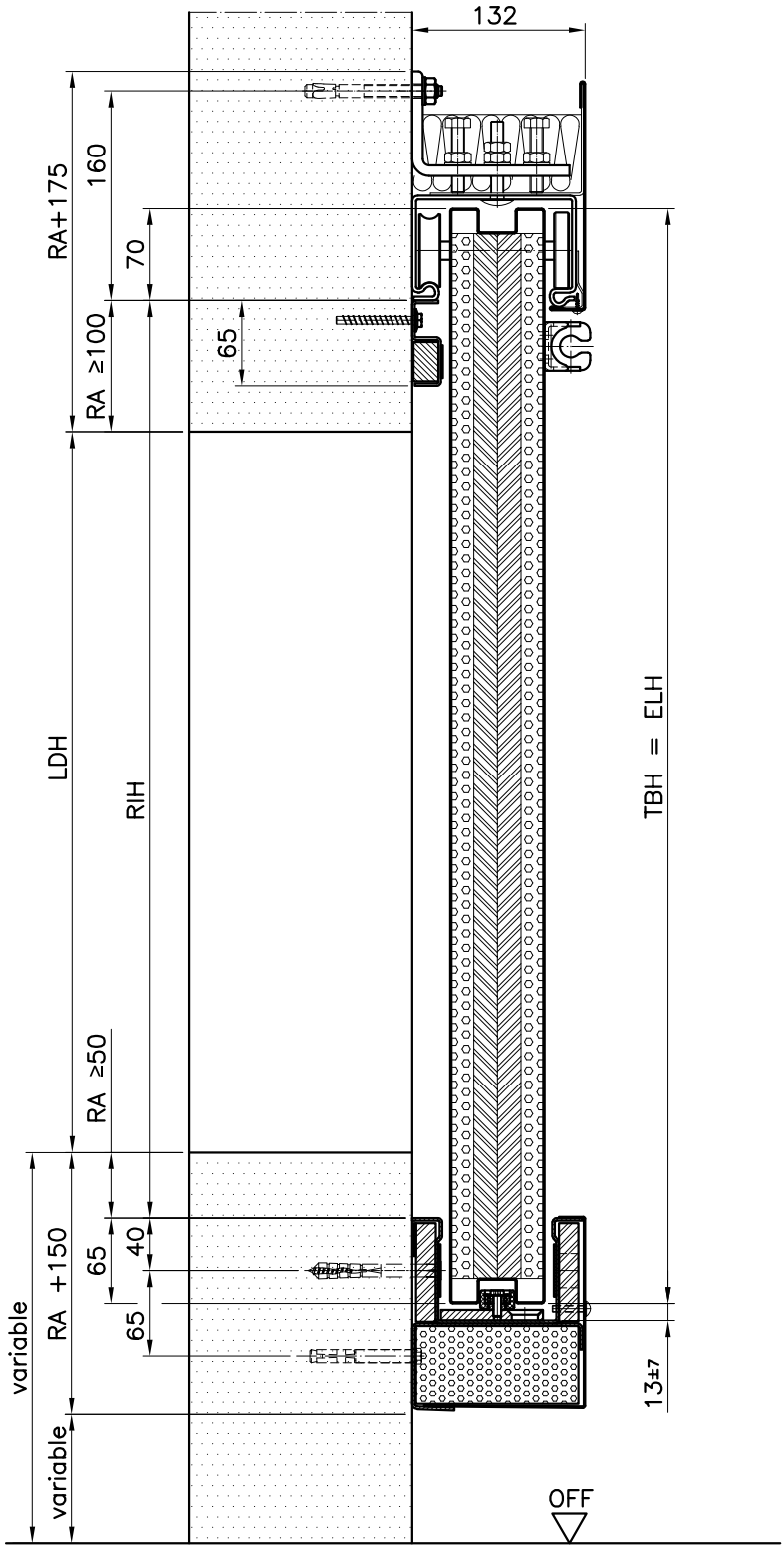
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – side-view (sectional view)



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-15**

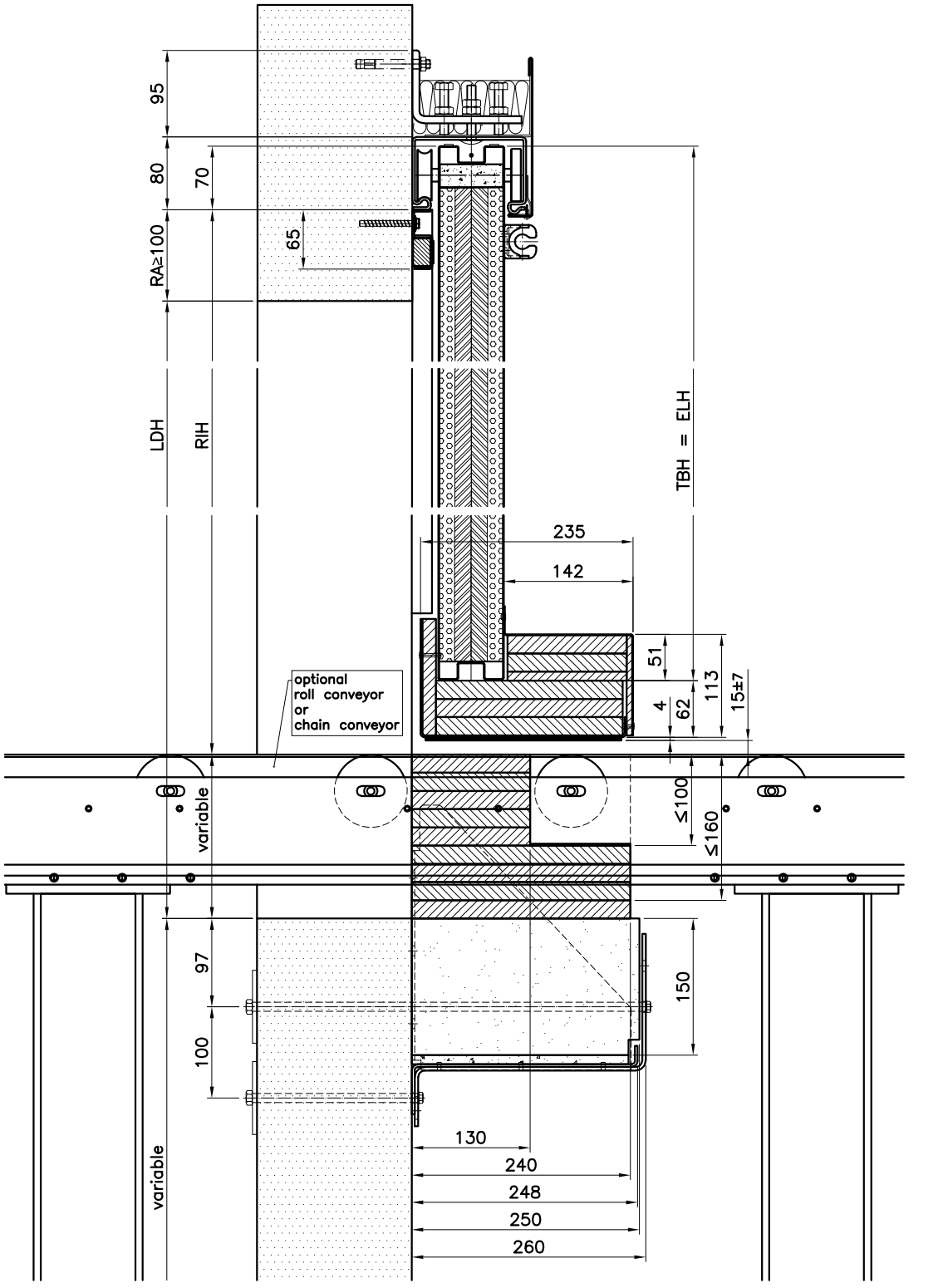
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – side-view (sectional view)



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves; raised position) for discontinued conveyor systems - Installation in rigid wall -	**ANNEX C-16**

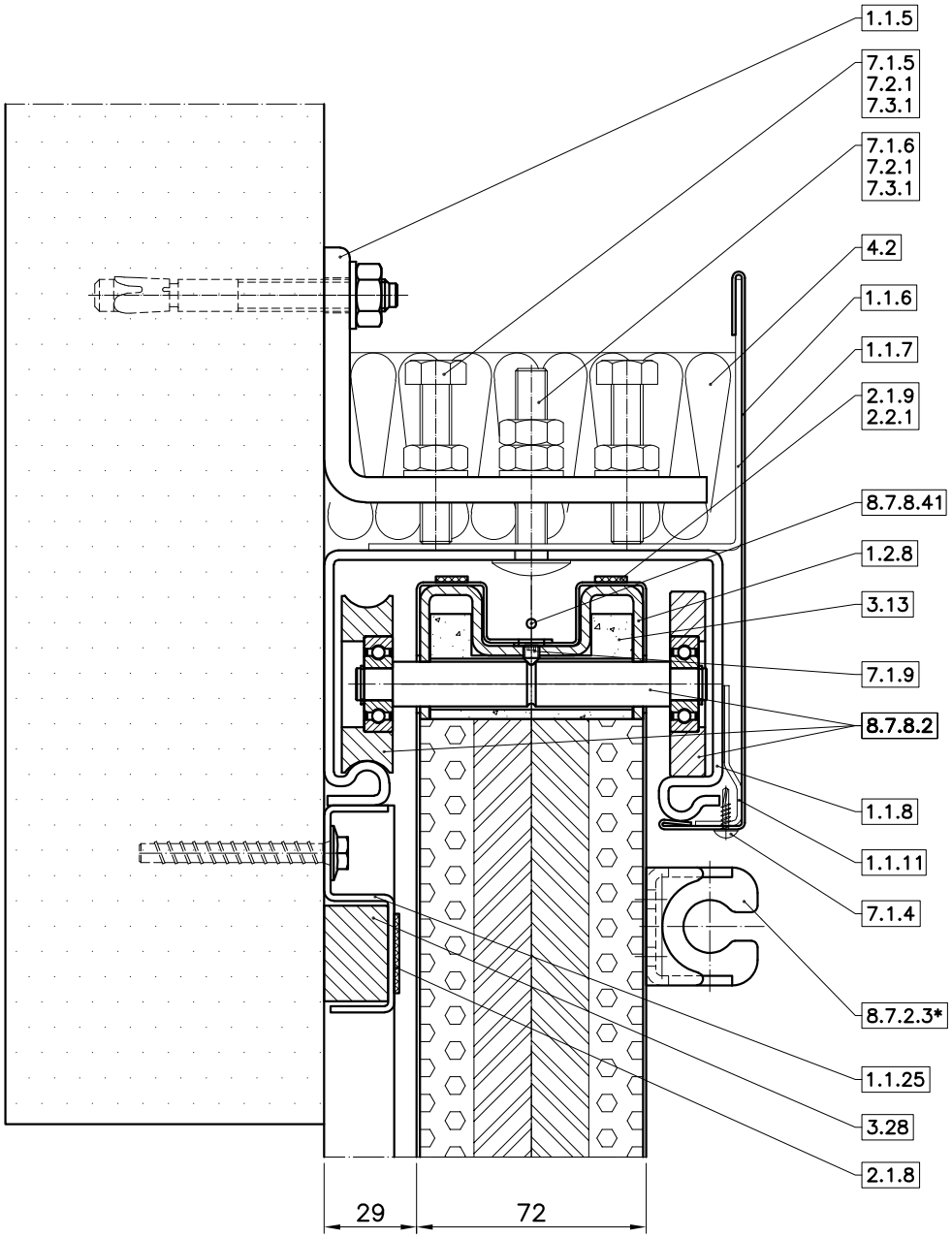
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Installation drawing – side-view (sectional view)



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-17**

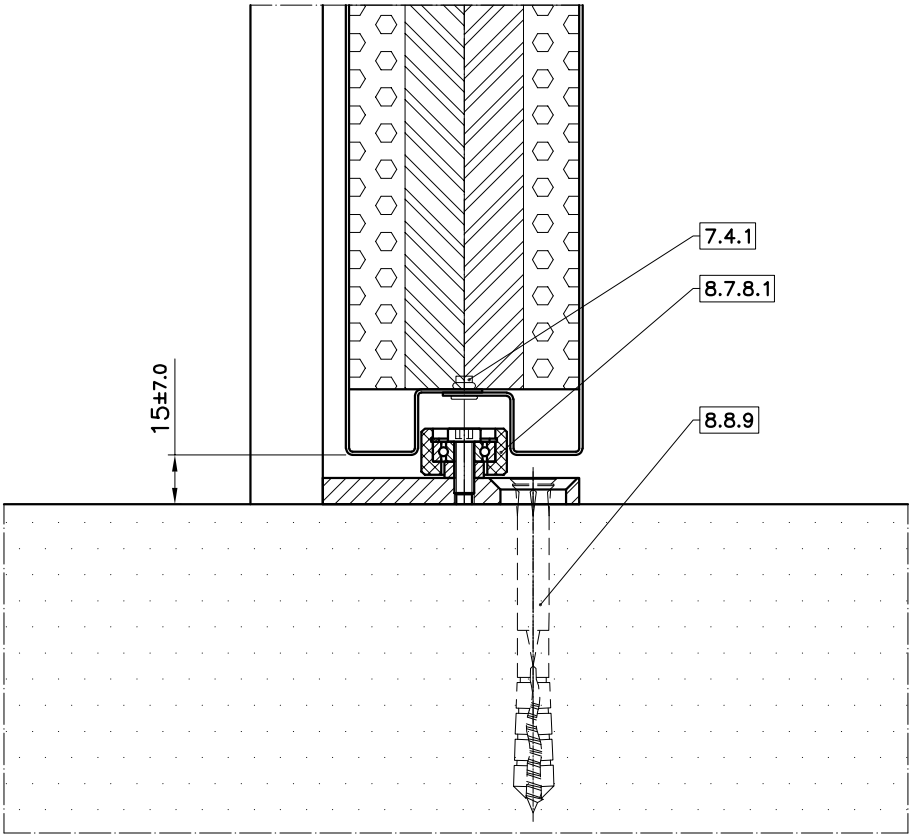
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Mounting profile and guide rail – Details – Installation drawing – side-view (sectional view)



all dimensions in mm; *optional

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-18**

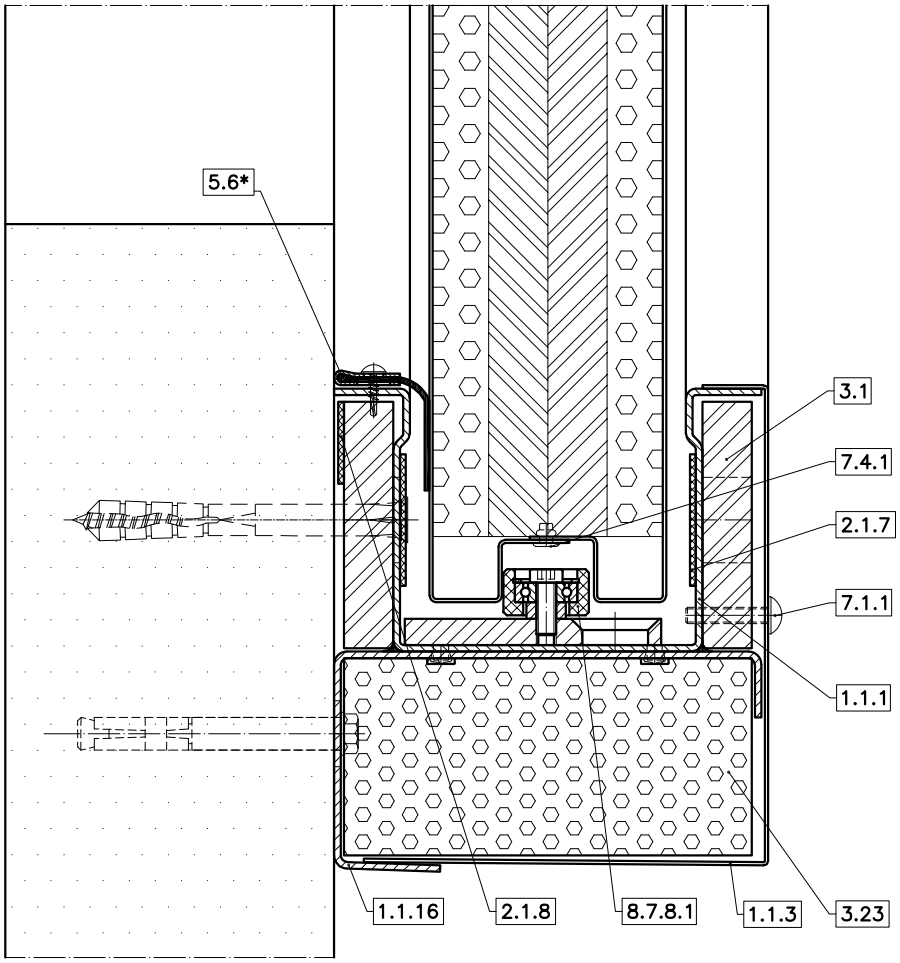
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Guide roller and sliding leaf – Details – Installation drawing – side-view (sectional view)



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-19**

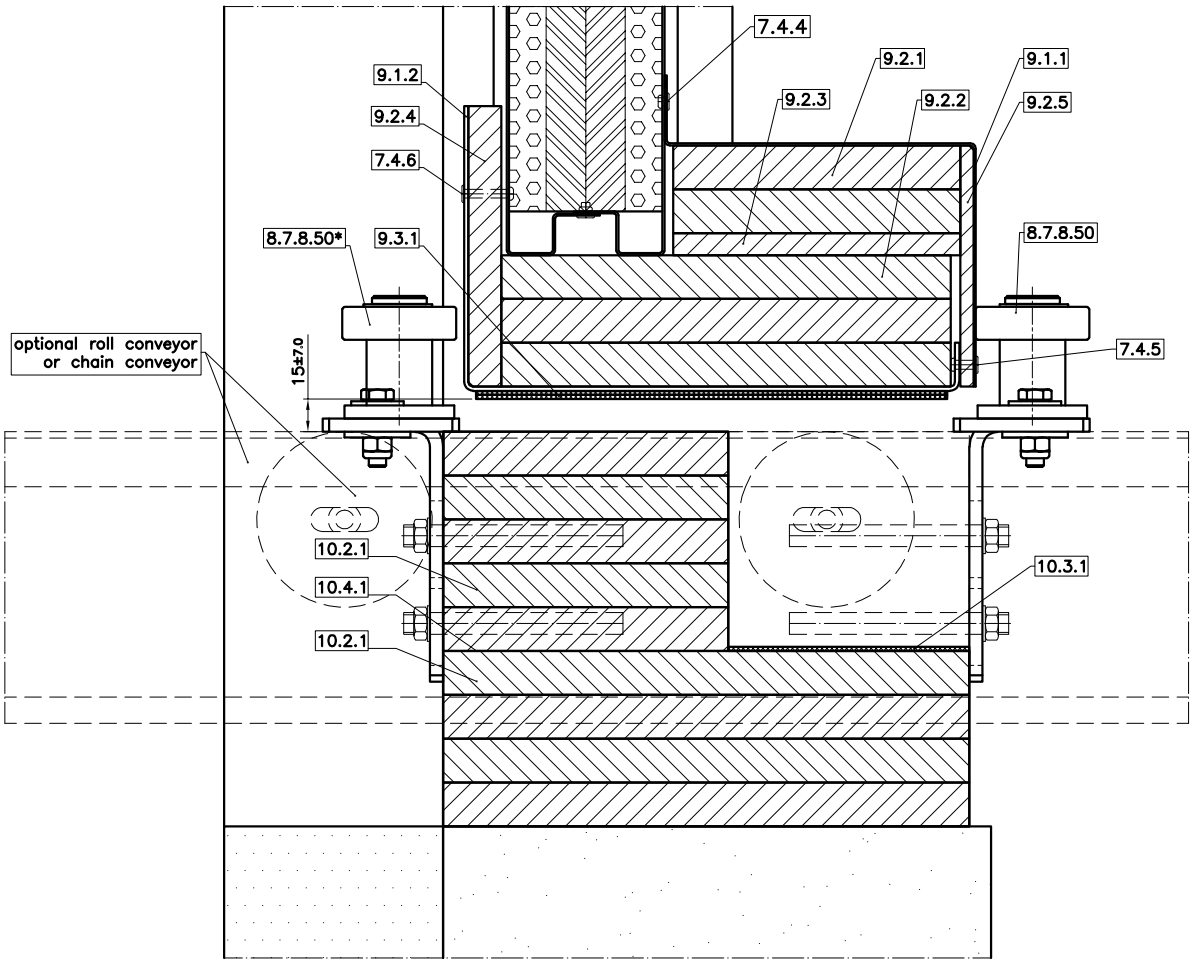
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Insulation profile, guide for the sliding leaf, guide roller and sliding leaf – Details – Installation drawing – side-view (sectional view)



*optional

FAA-ST-1 (horizontal closing sliding leaves; raised position) for discontinued conveyor systems - Installation in rigid wall -	**ANNEX C-20**

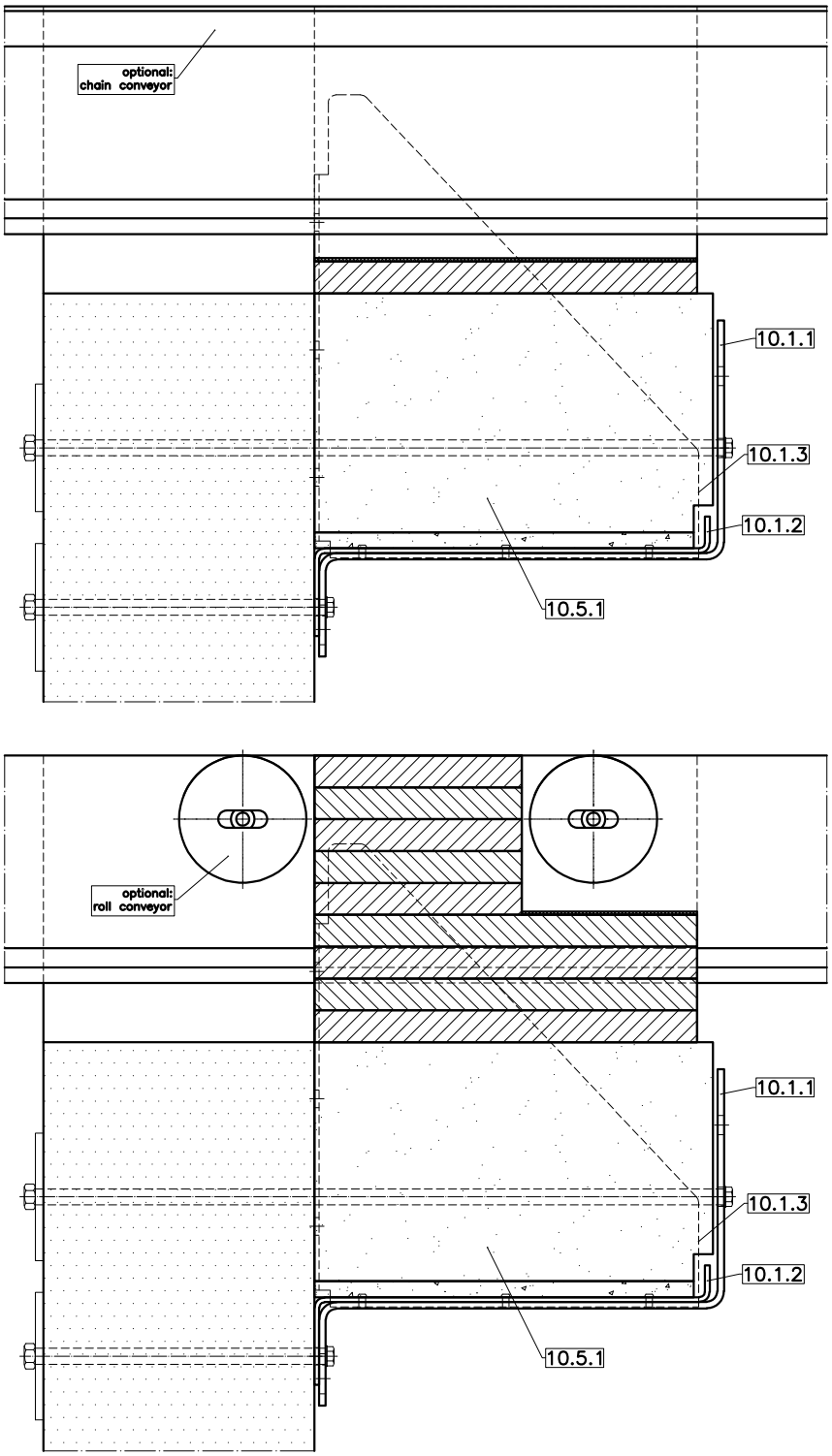
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Sealing block, fixed panel for the conveyor and sliding leaf – Details – Installation drawing – side-view (sectional view)



*optional

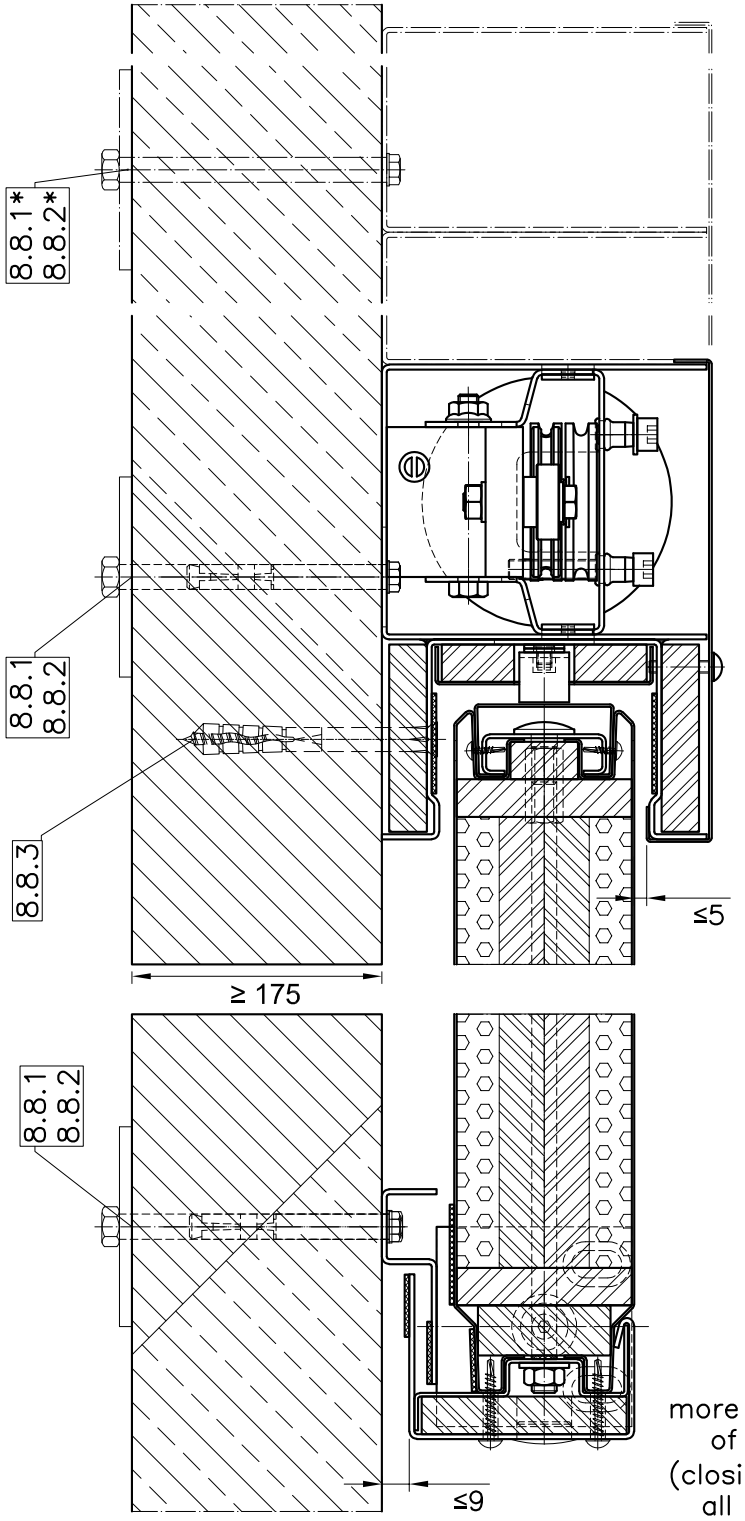
FAA-ST-1 (horizontal closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-21**

FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Fixed panel for the conveyor – Details – Installation drawing – side-view (sectional view)



FAA-ST-1 (horizontal closing sliding leaves) **for continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-22**

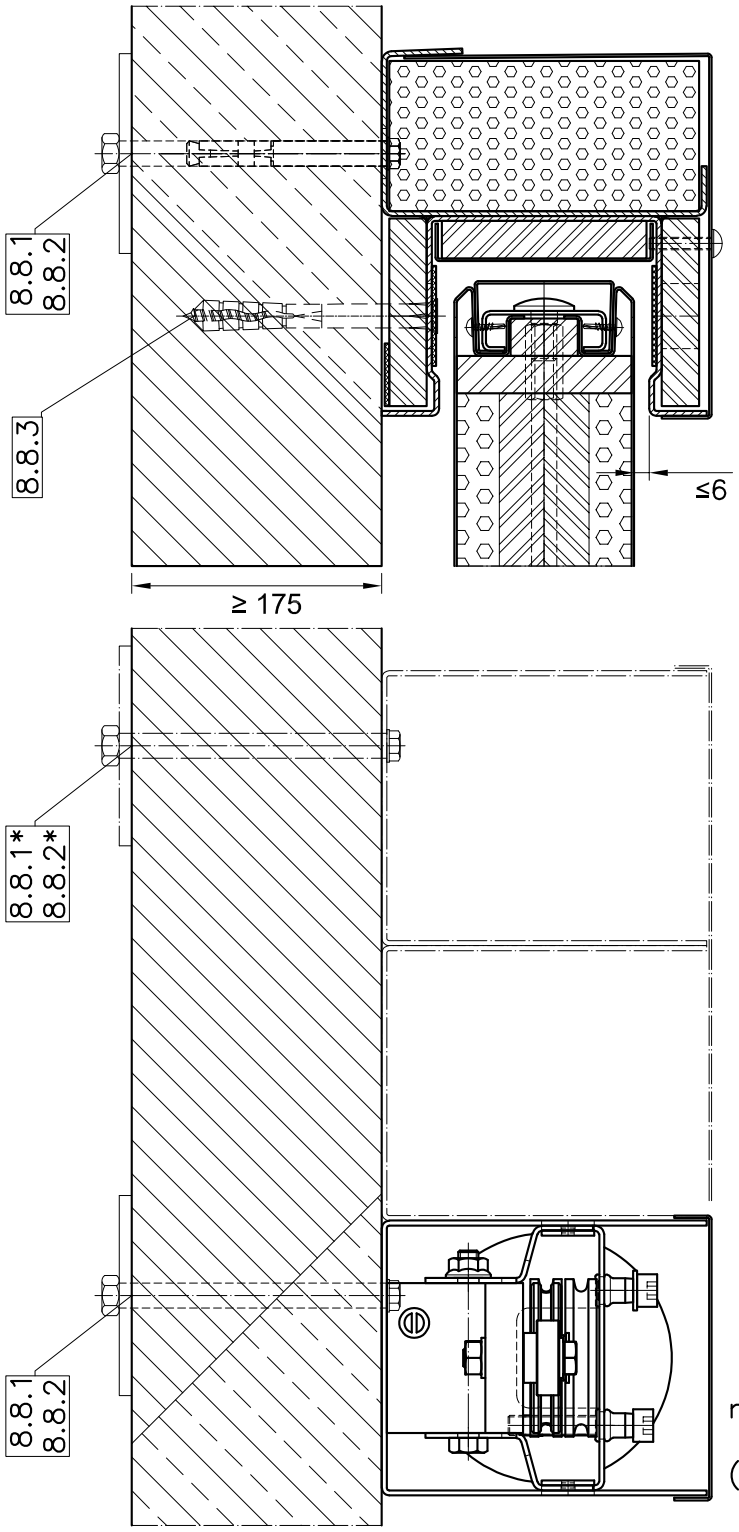
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of closing device (closing weight system), guide for the sliding leaf and labyrinth profile of the sealing system in walls made of masonry and normal concrete – Installation drawing – top-view (sectional view)



*optional if 3 or more U–shaped profiles of the closing device (closing weight system); all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-23**

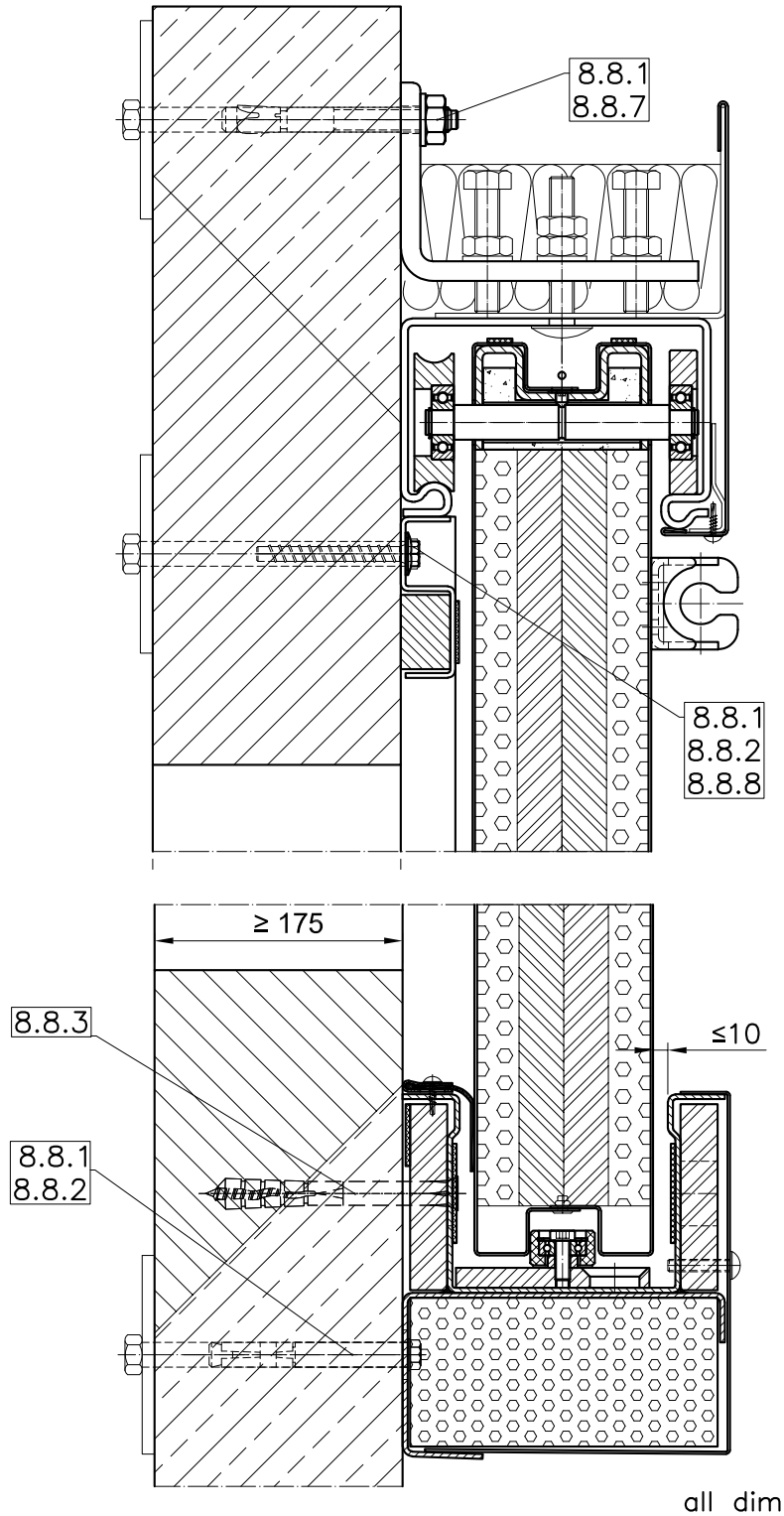
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of insulation profile, guide for the sliding leaf and closing device (closing weight system) in walls made of masonry and normal concrete – Installation drawing – top-view (sectional view)



*optional if 3 or more U–shaped profiles of the closing device (closing weight system); all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-24**

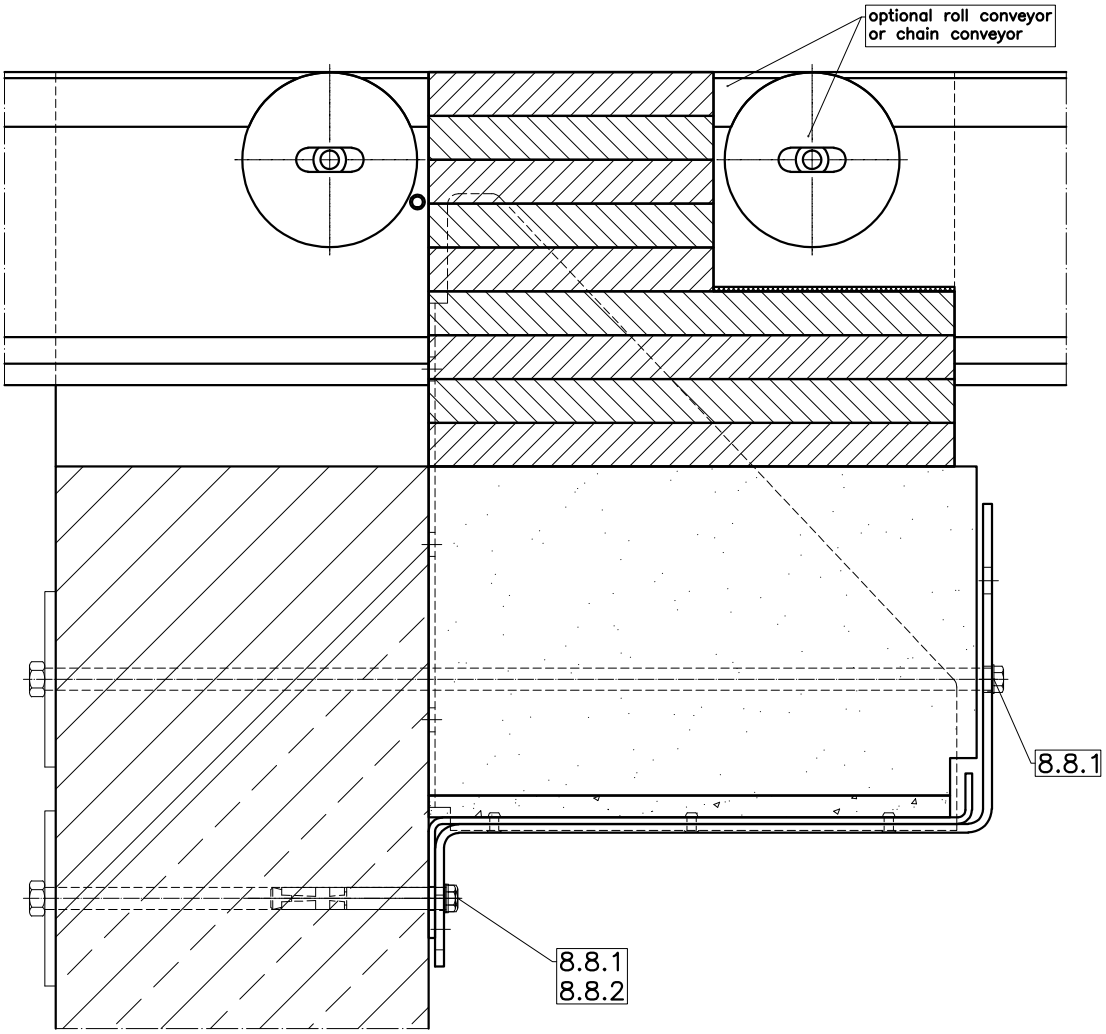
FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of mounting profile, labyrinth profile of the sealing system, guide for the sliding leaf and insulation profile in walls made of masonry and normal concrete – Installation drawing – side-view (sectional view)



all dimensions in mm

FAA-ST-1 (horizontal closing sliding leaves) **for discontinued and continued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-25**

FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Details for fixing of fixed panel with clearance for the conveyor in walls made of masonry and normal concrete Installation drawing – side-view (sectional view)



FAA-ST-1 (horizontal closing sliding leaves) **for discontinued conveyor systems** **- Installation in rigid wall -**	**ANNEX C-26**

Member of EOTA

FAA-HT-1 / FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Legend

1.1.1……. Labyrinth profile (thickness 2,0 mm)
1.1.2……. U-shaped profile (thickness 2,0 mm)
1.1.3……. Cover sheet (thickness 1,0 mm)
1.1.4……. Labyrinth profile (thickness 2,0 mm)
1.1.5……. Mounting profile (thickness 8,0 mm)
1.1.6……. Steel angle (thickness 1,0 mm)
1.1.7……. L-shaped profile (thickness 2,0 mm)
1.1.8……. Labyrinth profile (thickness 3,0 mm)
1.1.9……. U-shaped profile (thickness 1,0 mm)
1.1.10…... Cover sheet (thickness 1,0 mm)
1.1.11…... Fixing profile (thickness 1,5 mm)
1.1.16…... U-shaped profile (Insulation profile; thickness 2,0 mm)
1.1.23…... Housing of the counterweight (thickness 2,0 mm to 4,0 mm)
1.1.24…... Support profile (cap profile; thickness 3,0 mm)
1.1.25……. Labyrinth profile (thickness 2,0 mm)
1.2.1……. C-shaped profile (thickness 1,0 mm)
1.2.5……. Fastening clip (thickness 1,5 mm)
1.2.6……. Labyrinth profile (thickness 2,0 mm)
1.2.7……. Roll-formed cover sheets (thickness 0,75 mm)
1.2.8……. Sheet steel profile (thickness 3,0 mm)
1.2.12…... Labyrinth profile (thickness 2,0 mm)
1.2.13…... U-shaped profile (thickness 2,0 mm)
1.2.14…... C-shaped profile (thickness 1,0 mm)
1.2.15…... Sheet steel profile (thickness 3,0 mm)
1.2.16…... C-shaped profile (thickness 2,0 mm)
1.2.17…... U-shaped profile (thickness 4,0 mm)
2.1.7……. “PROMASEAL®-GTSK” (cross-section 1,8 mm x 40 mm)
2.1.8……. “PROMASEAL®-GTSK” (cross-section 1,8 mm x 25 mm)
2.1.9……. “PROMASEAL®-GTSK” (cross-section 1,8 mm x 10 mm)
2.2.1…….. “Kerafix® Flexpan 200 NG-A” (cross-section 1,8 mm x 10 mm)
3.1…….. Gypsum boards (type F according to EN 520, cross-section 15 mm x 75 mm)
3.2…….. Gypsum boards (type F according to EN 520, 15 mm x 27 mm)
3.5…….. Gypsum board (type F according to EN 520, cross-section 15 mm x 82 mm)
3.7…….. Gypsum boards (type F according to EN 520, cross-section 20 mm x 53 mm)
3.8…….. Gypsum boards (type F according to EN 520, cross-section 15 mm x 70 mm)
3.12……. “MIPROTEC L (400)” (cross-section 174 mm x 214 mm x 70 mm)
3.13……. “MIPROTEC L (400)” from manufacturer “MINERALKA d.o.o” (cross-section 63,4 mm x 20 mm, while in place of the rollers with an axe made of steel the cross-section is 63,4 mm x 33 mm)
3.23……. “DRS CRIMP FIRE BOARD D15” (cross section 60 mm x 124 mm)
3.27……. “MIPROTEC L (400)” (cross-section 70 mm x 40 mm)
3.28……. “Promatect 100” (cross-section 20 mm x 30 mm)

FAA-HT-1 / FAA-ST-1 (vertical and horizontal closing sliding leaves) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX D-1**

Member of EOTA

FAA-HT-1 / FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Legend

4.1…….	MIPROTEC L (400)" (cross-section 70 mm x 450 mm)	7.2.6…….	Nut
4.2……..	"DRS CRIMP FIRE BOARD D15" (cross-section 130 mm x 60 mm)	7.3.1…….	Washer
4.6……..	"DRS SANDWICH FIRE BOARD 70 Ei 120" (nominal thickness 70 mm)	7.4.1…….	Countersunk head blind rivet (Ø 4,0 mm x 8 mm (length)) resp. blind rivet (Ø 4,0 mm x 8 mm or 10 mm (length))
5.6……..	Smoke seal "Klemmprofil mit Dichtung" (cross-section 4,5 mm x 56 mm)	7.4.2…….	Rope shackle
6.1……..	"ICEMA® R-145/12" (application quantity 100 g/m²)	7.4.3…….	Rope turnbuckle
7.1.1…….	Pan head screw (Ø 5,0 mm x 25 mm (length))	7.4.4…….	Flat-head rivet (Ø 4,8 mm x 8 mm (length))
7.1.2…….	Pan head screw (Ø 5,0 mm x 70 mm (length)) with sleeve nut	7.4.5…….	Flat-head rivet (Ø 4,0 mm x 16 mm (length))
7.1.3…….	Self-drilling pan head screws (Ø 3,9 mm x 13 mm (length))	7.4.6…….	Flat-head rivet (Ø 5,0 mm x 30 mm (length))
7.1.4…….	Self-drilling pan head screw (Ø 4,8 mm x 32 mm (length))	8.1.1…….	Handle made of stainless steel (cross-section 200 mm x 90 mm x 65 mm)
7.1.5…….	Hexagonal bolt (Ø 10 mm x 50 mm (length))	8.1.2…….	Recessed handle made of stainless steel (cross-section 200 mm x 90 mm x 23,5 mm)
7.1.6…….	Cup head square neck bolt (Ø 10 mm x 60 mm (length))	8.5.1…….	Gear motor with brake "G13A DM71K4"
7.1.7…….	Threaded steel bolt (Ø 10 mm)	8.5.2…….	Opening aid
7.1.9…….	Threaded pin (Ø 5,0 mm x 6 mm (length))	8.7.1.1….	Speed regulator "LR-36-K-160"
7.1.16…….	Self-tapping screw (Ø 3,9 mm x 50 mm (length))	8.7.2.3….	Overrun damper „VAR-200021-001" (Ø 28 mm x 200 mm (height))
7.1.18…….	Hexagonal socket screw (Ø 8,0 mm x 30 mm (length))	8.7.7.2….	Retaining magnet "Hahn CQ Line Type GT63R001" or "HHM 50 Haftmagnet"
7.1.19…….	Hexagonal socket screw (Ø 10 mm x 70 mm (length))	8.7.8.1….	Guide roller
7.1.20…….	Hexagonal socket screw (Ø 12 mm x 70 mm (length))	8.7.8.2….	Roller with an axe
7.1.21…….	Hexagonal socket screw (Ø 12 mm x 110 mm (length))	8.7.8.3….	C-shaped fixing clamp (thickness 1,5 mm, including a blind rivet nut (Ø 10 mm))
7.2.1…….	Nut	8.7.8.10...	Bumper made of rubber
7.2.4…….	Sleeve nut	8.7.8.11...	Bumper made of zinc plated steel (thickness 8,0 mm, cross section 80 mm x 120 mm) and rubber

FAA-HT-1 / FAA-ST-1 (vertical and horizontal closing sliding leaves) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX D-2**

FAA-HT-1 / FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Legend

8.7.8.15...	Bumper made of rubber “GIMET-PUFFER QUAL. NK 55 +/-5 SHORE A, IG M6” (Ø 20 mm x 25 mm (height))	8.8.9……..	Frame dowel “Rahmendübel HRD” (Ø 10 mm x ≥ 80 mm (length))
8.7.8.19...	Sliding strips made from polyamide 6 (cross-section 56 mm x 20 mm x 3 mm)	9……..	Sealing block
8.7.8.24...	Steel cable (ordinary lay, thickness 6,0 mm) with thimble	9.1.1……..	Z-shaped profile (thickness 1,0 mm)
8.7.8.25...	Console for rope pulley	9.1.2……..	C-shaped profile (thickness 2,0 mm)
8.7.8.26...	Weights of the counterweight	9.2.1……..	“PROMATECT® H” (cross-section 20 mm x 131 mm)
8.7.8.27...	Cable pulley “Seilrolle mit Doppelrille 210mm”	9.2.2……..	“PROMATECT® H” (cross-section 20 mm x 205 mm)
8.7.8.28...	Limit switch “EKU1-KRHV”	9.2.3……..	“PROMATECT® H” (cross-section 10 mm x 131 mm)
8.7.8.31...	Fabric belt “Gurt Hubtor 800daN LC 800 25mm Breite“	9.2.4……..	“PROMATECT® H” (cross-section 15 mm x 128 mm)
8.7.8.32...	Fabric belt “Sondergurt lt. Zeichnung 1000kg Breite 30mm”	9.2.5……..	“PROMATECT® H” (cross-section 6 mm x 110 mm)
8.7.8.41...	Steel cable (ordinary lay, thickness 3,0 mm)	9.3.1……..	“ROKU® Strip” (cross-section 2 mm x 215 mm)
8.7.8.42...	Closing weights	10……..	Fixed panel with clearance for the conveyor
8.7.8.43...	Cable pulley (Ø 69 mm, thickness 9 mm)	10.1.1…….	Z-shaped mounting profile (thickness 4,0 mm)
8.7.8.50...	Guide roller “Führungsrolle”	10.1.2…….	Z-shaped mounting profile (thickness 3,0 mm)
8.8.1……..	Threaded steel bolt (Ø 10 mm)	10.1.3…….	Mounting profile (thickness 3,0 mm)
8.8.2……..	Highload anchor “SZ 10-30 (Type SZ-S)” (only in case of walls made of normal concrete)	10.2.1…….	“PROMATECT® H” (thickness 6 mm to 20 mm; depth 240 mm)
8.8.3……..	Frame dowel “Rahmendübel HRD” (Ø 10 mm x ≥ 140 mm (length))	10.3.1…….	“ROKU® Strip” (thickness 2 mm)
8.8.7……..	Bolt anchor “Bolzenanker HST3” or “B 10-15-21/90” (only in case of walls made of normal concrete)	10.4.1…….	Adhesive “KLEBEPASTE SB”
8.8.8……..	Concrete screw “fischer Betonschraube ULTRACUT FBS II 6x60/5 US” (only in case of walls made of normal concrete)	10.5.1…….	Autoclaved aerated concrete blocks according to EN 771-4 (depth 250 mm, height 150 mm)

FAA-HT-1 / FAA-ST-1 (vertical and horizontal closing sliding leaves) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX D-3**

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FAA-HT-1 / FAA-ST-1 in rigid walls according to clause 2.1 of the ETA – Legend

AB……..	Parking area
EDB…….	Panel width (inner dimension; = ELB - 25,5 mm)
LB…….	Panel width (outer dimension)
ELH…….	Panel height
LDB…….	Width of the wall opening
LDH…….	Height of the wall opening
RA……..	Distance between guide rails and wall opening
RIB……..	Horizontal distance between guide rails
RIH……..	Vertical distance between guide rail and labyrinth profile
TBB……..	Sliding leaf width (outer dimension)
TBH……..	Sliding leaf height (outer dimension)
OFF……..	Upper edge of finished floor
LÜD……..	Labyrinth coverage
WLÜD…….	Wall labyrinth coverage

FAA-HT-1 / FAA-ST-1 (vertical and horizontal closing sliding leaves) for discontinued and continued conveyor systems - Installation in rigid wall -	**ANNEX D-4**