Rheinhold & Mahla

Since 1887

R&M Products

Complete catalogue 2020

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R&M Products

Interior outfitting manufactured by the R&M Group

The products of the R&M Group provide efficient, individual and turnkey solutions for interior outfitting. The extensive portfolio ranges from doors, wet units and pods to furniture, which are manufactured at our production facilities in Wismar and in Rostock (Germany) as well as in Kunshan (China). With our own modern product facilities, we are able to offer very flexible accordingly to customers` requirements and wishes. We consider simultaneously the design as well as economic issues, which play a key role in our daily business.

All the high-quality products meet the highest standards and the most stringent international guidelines. They are characterized with the best fire, noise and vibration protection ensuring comfort and safety on board for passengers as well as crew members. We deliver just-in-time to any desired location in the world.

Production facilities

Wismar

In Wismar, we produce furniture according to standard specifications and individual customer requirements. Our excellent design solutions are continuously developed. Thanks to the latest computerized numerical control (CNC) machines, we are also able to meet the most specific requirements in a short turnaround time while maintaining our quality guarantee. Furthermore, together with our suppliers we can offer a range of products, from sophisticated stainless-steel work and superior solid surfaces to creative mirrors, glass features, and high-grade upholstery.

Rostock

In Rostock, which is very close to Wismar, our central warehouse and logistics center is located as well as the facility for final assembly of our furniture manufacture from Wismar.

Kunshan

Further production facility is located in Kunshan, near Shanghai. It is the larger facility, where we manufacture for example wet units, doors, wall and ceiling systems. European standards of quality and international logistic guidelines are strictly observed during the entire manufacturing process. The team is multinational and has long-term experience and knows each important characteristics of products.

Our competences

- Individual customizations and configurations on request
- Complete installation for electrical, air-conditioning and sprinkler systems
- Just-in-time delivery
- Guarantee of quality
- Products at best price-performance ratio
- Assembly line for prefabricated wet units and cabins on site
- Tested and approved structural materials
- Worldwide shipping, assembly and installation on board

Quality management system

- Quality management system in accordance with the international norm ISO 9001
- Quality assurance system are compliant with Maritime Equipment Directive, Modul D
- It consists of incoming inspection per category, in-process quality control and outgoing inspection and release to delivery
- Quality standards are monitored by the multicultural R&M Quality Management Team

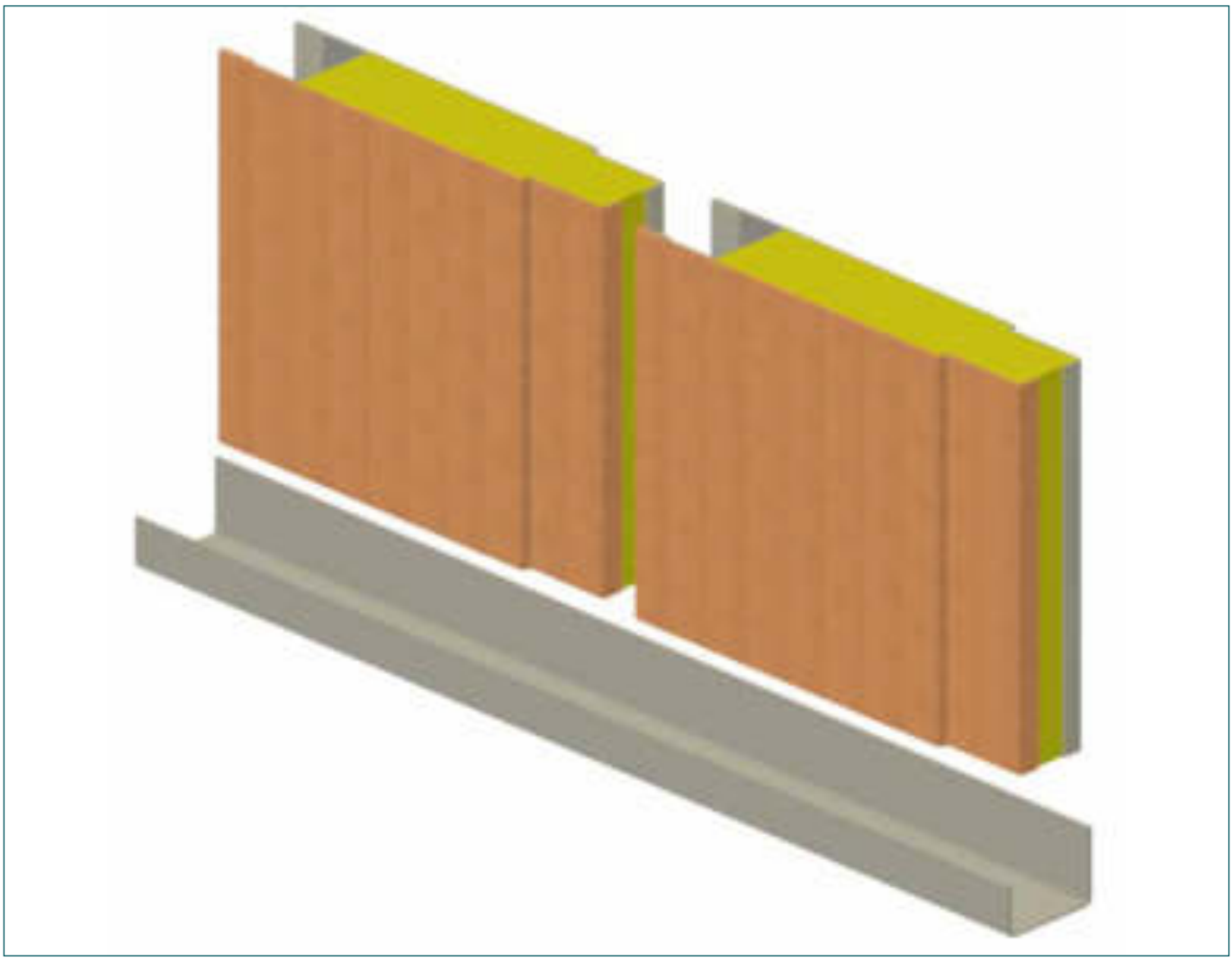
Rheinhold & Mahla

Since 1887

Walls

Lining panels

Type W25, W25-AS & W25-AA

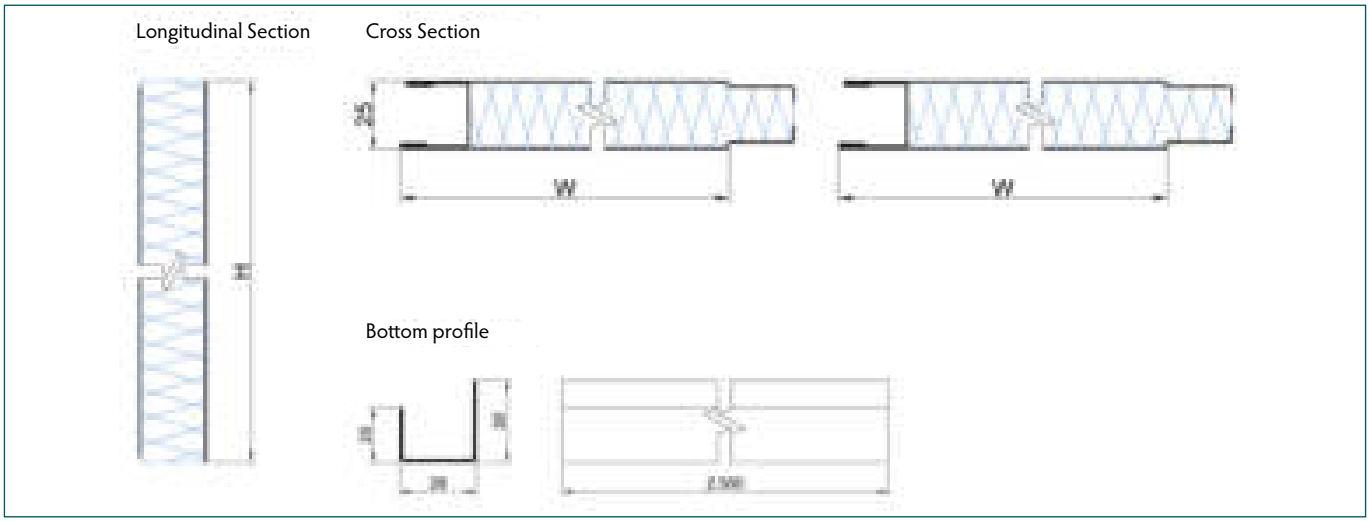


The W25, W25-AS and W25-AA wall elements represent the standard system when it comes to the application of single-sided decorative lining panels. Depending on the customer specifications regarding fire rating and weight different covering layer combinations can be chosen. Besides the W25 wall panel is certified with several fixtures. For all assembly situations, mutable connection types are available whereat as a standard the panel type with integrated tongue is being used.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the W25, W25-AS and W25-AA panel system and all components have been tested and approved according to international standards.

Lining panels

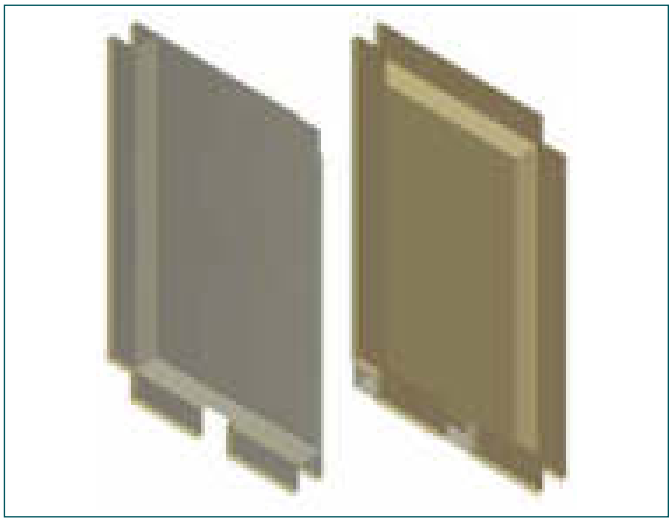
Type W25, W25-AS & W25-AA



Technical data	W25	W25-AS	W25-AA
Covering layer (visible side)	Steel	Steel	Aluminum
Covering layer (back side)	Steel	Aluminum	Aluminum
Fire classification	B-15	B-0	C
Sound reduction	up to 30 dB	---	---
Thickness	25 mm	25 mm	25 mm
Element width - Standard - Range	550 mm 250 - 1,200 mm	550 mm 250 - 650 mm	550 mm 250 - (not limited) mm
Element height	up to 2,475 mm	up to 2,475 mm	(not limited) mm
Weight - Panel - Bottom profile	14.5 kg/m^2 0.6 kg/m	11.5 kg/m^2 0.6 kg/m	8.6 kg/m^2 0.6 kg/m
Certified fixtures	Cable duct Reinforcements Backside cover WC with backside cover box	---	---
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG	---

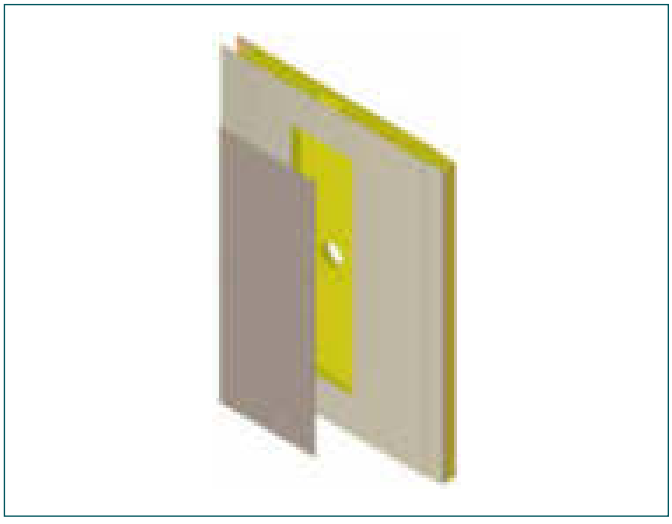
Lining panels

Certified fixtures for W25

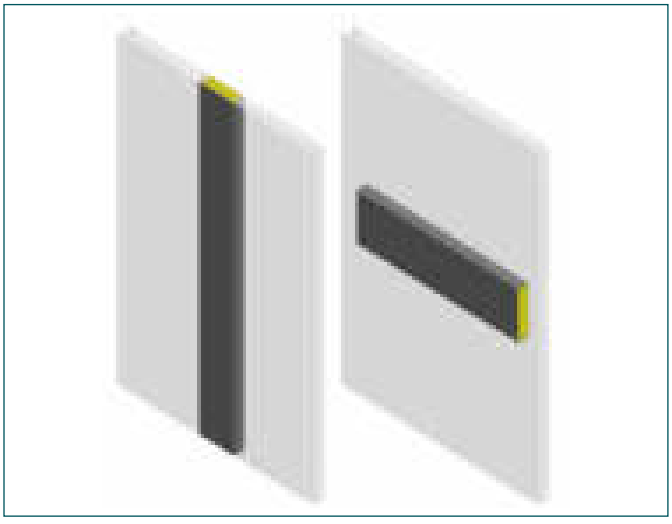


Technical data	Backside cover (hard)
Fire class	B-15
Dimensions	up to 450 x 700 mm
Height	min. +9 mm behind fixture

Technical data	Backside cover (soft)
Fire class	B-15
Dimensions	up to 235 x 400 mm
Depth	min. +3 mm behind fixture



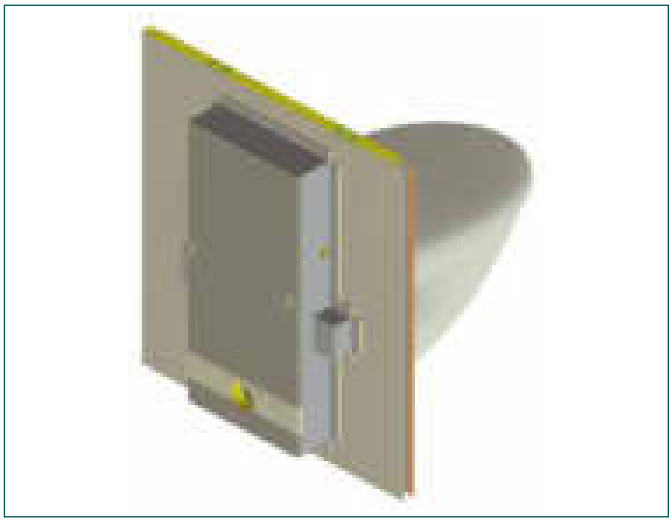
Technical data	Cable duct
Fire class	B-15
Dimensions	up to 90 x 2,075 mm
Depth	12.5 mm



Technical data	Vertical & horizontal reinforcements
Fire class	B-15
Dimensions	according to customer specifications

Lining panels

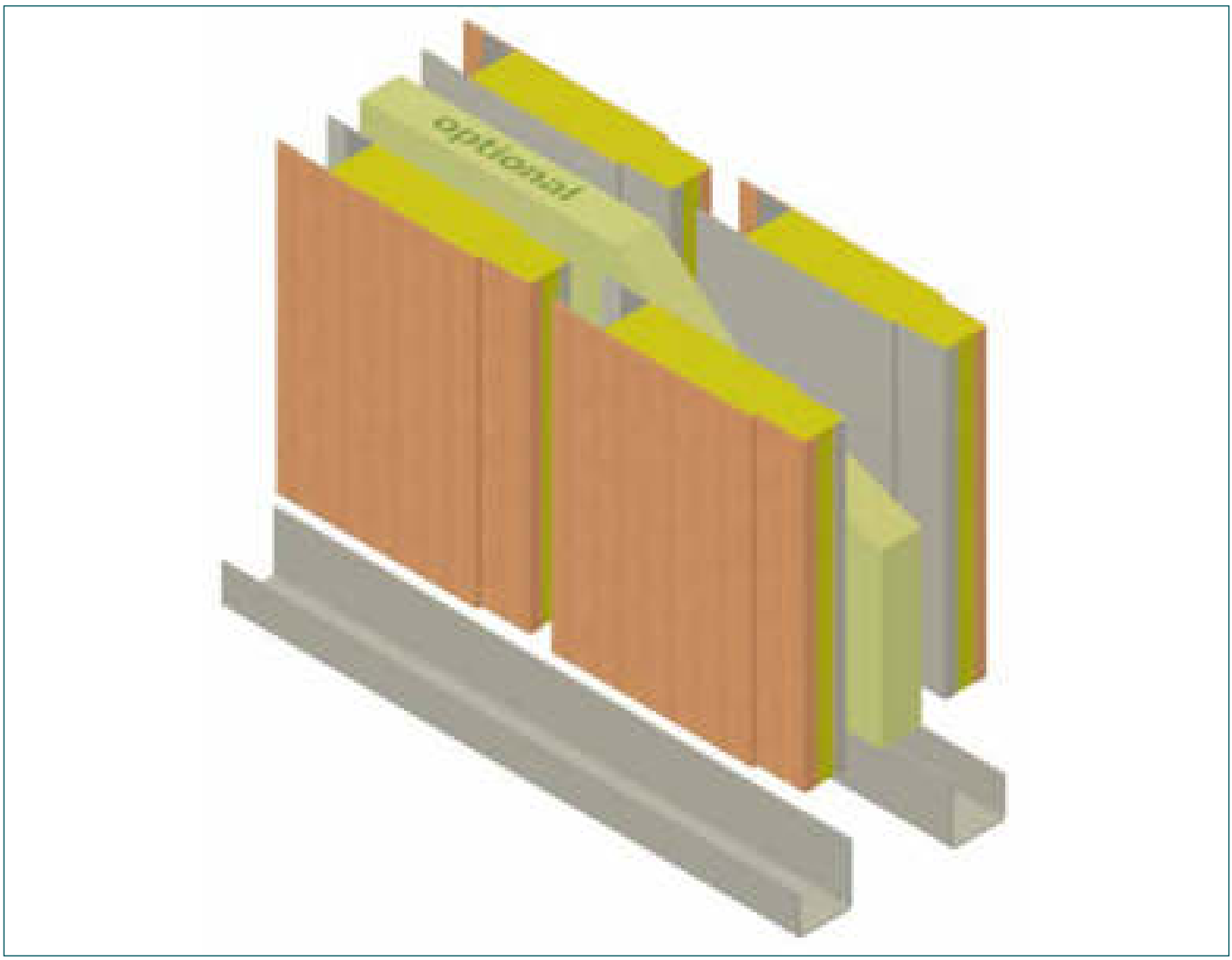
Certified fixtures for W25



Technical data	WC with accessible back box
Fire class	B-15
Dimensions	up to 300 x 635 mm
Depth	depending on WC

Double wall systems

Type W25 & W25-AA



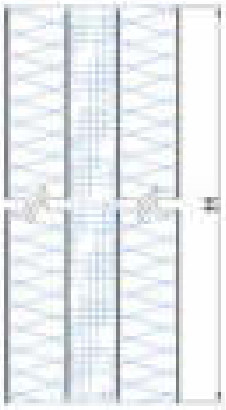
Besides the W25 and W25-AA single walls the panels can be assembled as double wall systems as well. According to customer requirements, the double wall systems can be produces with steel or lightweight aluminum layers. With a mass of only 2 x 9.1 kg/m² the aluminum version is especially used when the weight on board plays an important role. Both variants ensure B-15 fire rating. For all assembly situations, mutable connection types are available whereat as a standard the panel type with integrated tongue is being used.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the W25 and W25-AA double wall systems and all components have been tested and approved according to international standards.

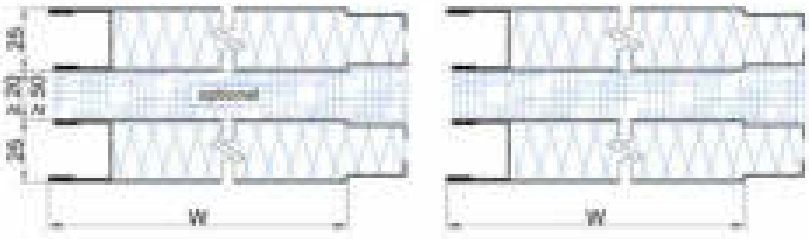
Double wall systems

Type W25 & W25-AA

Longitudinal Section



Cross Section



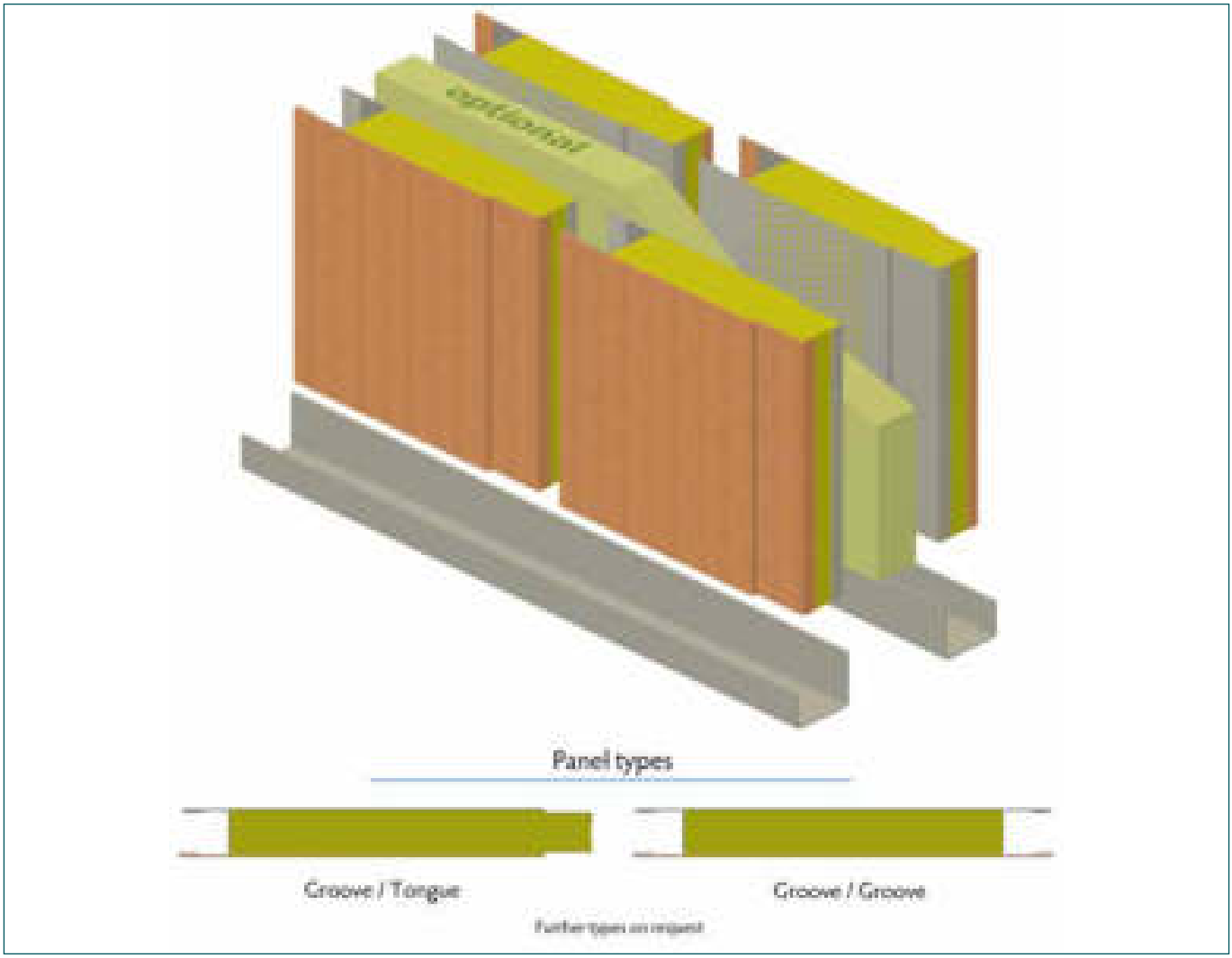
Bottom profile

Technical data	W25	W25-AA
Covering layer (visible side)	Steel	Aluminum
Covering layer (back side)	Steel	Aluminum
Fire classification	B-15	B-15
Sound reduction - 20 mm distance - 50 mm distance	 37 dB / 44 dB* 39 dB / 50 dB*	 --- / ---
Thickness	25 + ≥ 20 + 25 mm	25 + ≥ 50 + 25 mm
Element width - Standard - Range	550 mm 250 - 1,200 mm	550 mm 250 - 600 mm
Element height	up to 2,475 mm	up to 2,475 mm
Weight - Panel - Cavity insulation (air gap) - Bottom profile	2 x 14.5 kg/m^2 +0.7 kg/m^2 (20 mm) +1.2 kg/m^2 (50 mm) 2 x 0.6 kg/m	2 x 9.1 kg/m^2 +1.2 kg/m^2 (50 mm) 2 x 0.6 kg/m
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG

* without / with cavity insulation

Perforated double wall systems

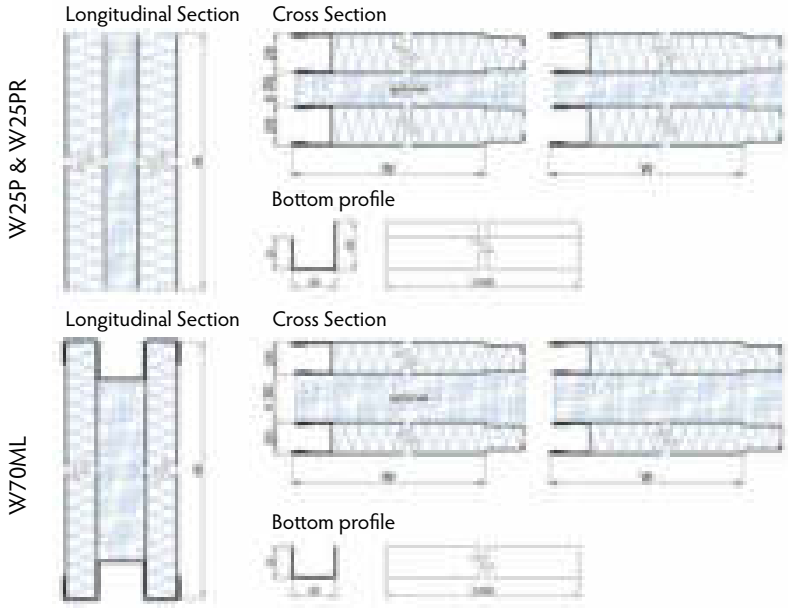
Type W25P, W25PR & W70ML



The W25P & W25PR double wall systems represent the standard system when it comes to very high noise reduction requirements. By perforating the backsides of each panel and the optional adding cavity insulation, the double wall systems reaches a sound reduction of up to R_w = 61 dB. The W70ML is a special type whereas the assembly can be done by mounting each side separately or as a prefabricated double wall element. For all assembly situations mutable connection types are available whereat as a standard the panel type with integrated tongue is being used.
A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the W25P, W25PR & W70ML double wall systems and all components have been tested and approved according to international standards.

Perforated double wall systems

Type W25P, W25PR & W70ML

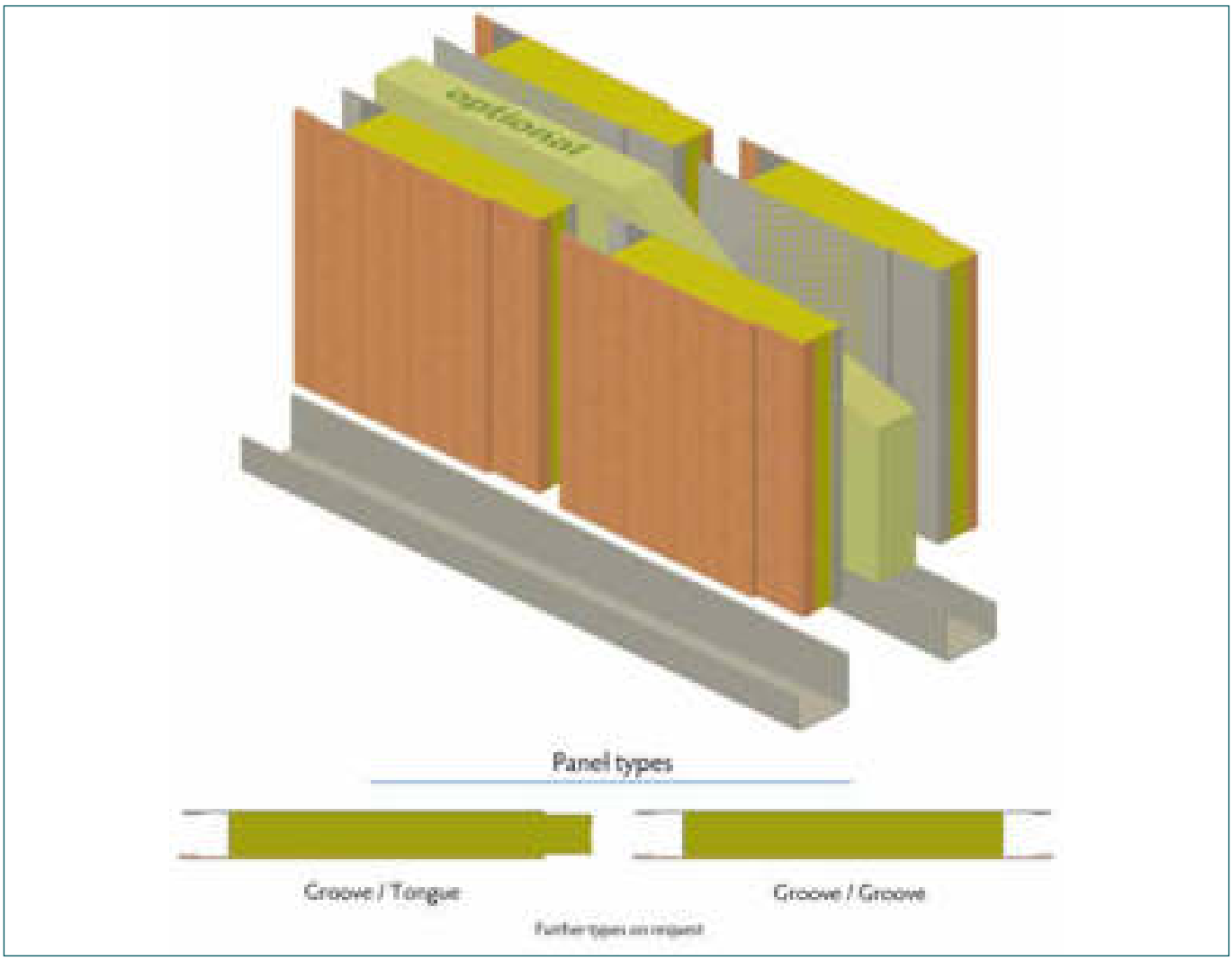


Technical data	W25P	W25PR	W70ML
Covering layer (visible side)	Steel	Steel	Steel
Covering layer (back side)	Steel (perforated)	Steel (perforated)	Steel (perforated)
Fire classification	B-15	B-15	B-15
Sound reduction - 20 mm distance - 30 mm distance - 50 mm distance - 70 mm distance - 100 mm distance	 44 dB / 46 dB* --- / --- 43 dB / 49 dB* --- / --- --- / ---	 46 dB / 53 dB* --- / --- 47 dB / 57 dB* --- / 59 dB* --- / 61 dB*	 --- / --- 45 dB / 48 dB* --- / --- --- / --- --- / ---
Thickness	25 + ≥ 20 + 25 mm	25 + ≥ 20 + 25 mm	20 + ≥ 30 + 20 mm
Element width - Standard - Range	550 mm 250 - 600 mm	550 mm 250 - 600 mm	550 mm 250 - 600 mm
Element height	up to 2,975 mm	up to 3,175 mm	up to 2,475 mm
Weight - Panel - Cavity insulation (air gap) - Bottom profile - Spacing profile	2 x 14.1 kg/m² +0.7 kg/m² (20 mm) +1.2 kg/m² (50 mm) 2 x 0.6 kg/m	2 x 18.5 kg/m² +0.7 kg/m² (20 mm) +1.2 kg/m² (50 mm) +1.9 kg/m² (70 mm) +2.4 kg/m² (100 mm) 2 x 0.6 kg/m	2 x 13.1 kg/m² +0.7 kg/m² (30 mm) 1 x 0.5 kg/m 2 x 1.2 kg/m
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG	MED, USCG

* without / with cavity insulation

Perforated single & double wall systems

Type W25P (light weight)



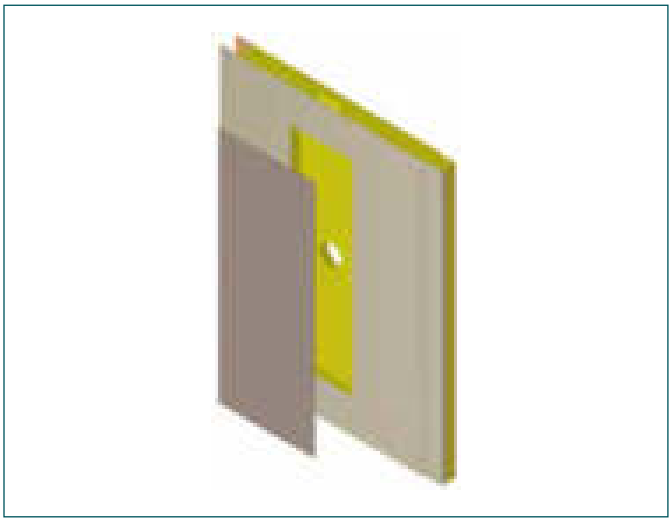
The W25P (light weight) system represent the alternative system when it comes to very high noise reduction in combination with low weight requirements for prefabricated cabins. The W25P (light weight) is certified as single wall with several fixtures. By perforating the backsides of each panel and the option of adding cavity insulation as well as being placed as double wall (prefab cabin to prefab cabin) a sound reduction of up to R_w = 54 dB can be reached. For all assembly situations mutable connection types are available whereat as a standard the panel type with integrated tongue is being used.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the W25P (light weight) system and all components have been tested and approved according to international standards.

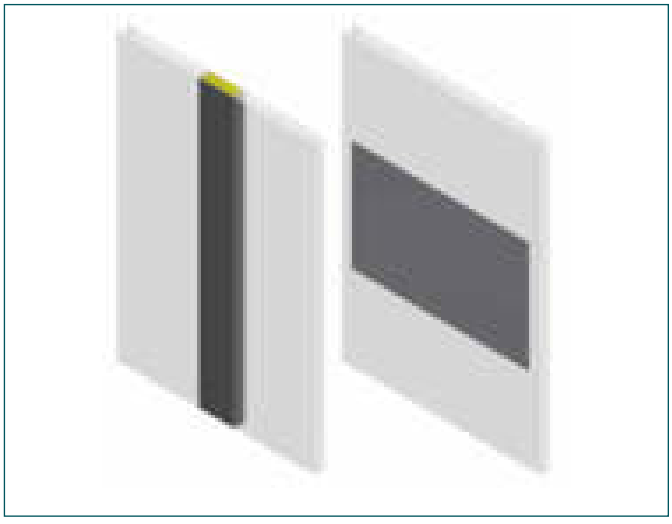
Perforated single & double wall systems

Certified fixtures for W25P (light weight)

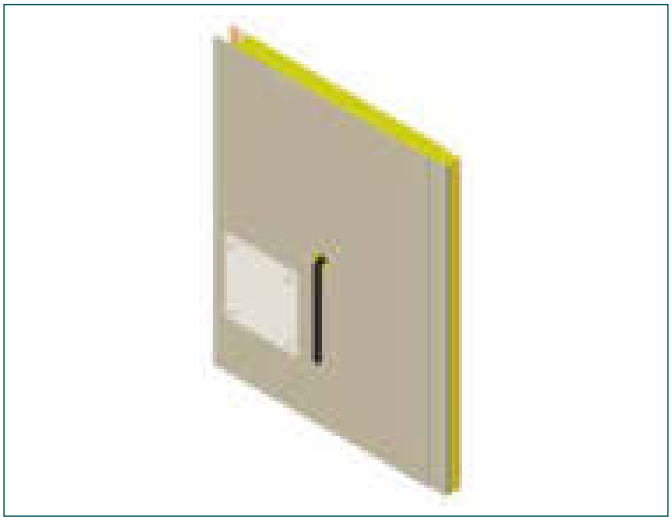
Technical data	Backside cover (soft)
Fire class	B-0
Dimensions	up to 235 x 400 mm
Depth	min. +3 mm behind fixture



Technical data	Cable duct
Fire class	B-0
Dimensions	up to 90 x 2,075 mm
Depth	12.5 mm



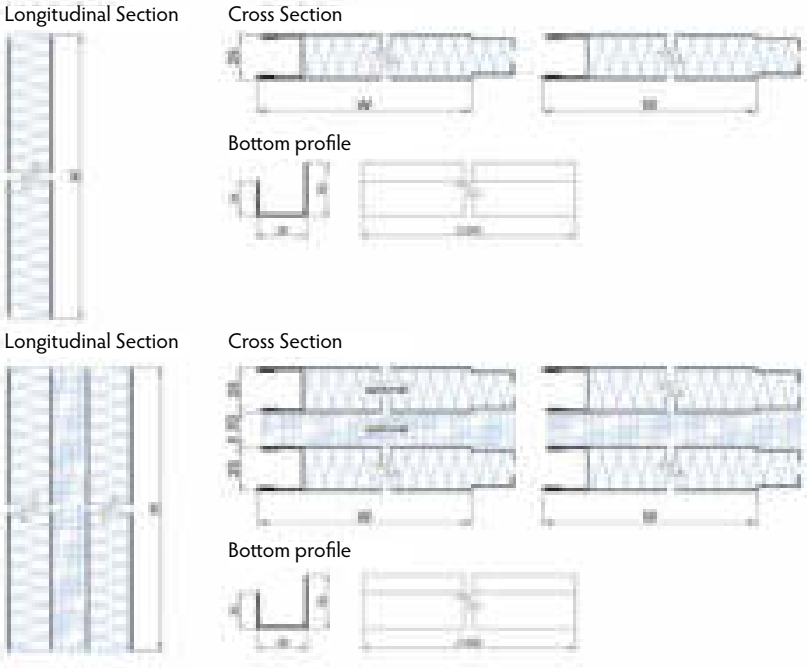
Technical data	Reinforcements
Fire class	B-0
Dimensions	according to customer specifications



Technical data	Cable penetration
Fire class	B-0
Dimensions	cut out Ø 20mm with cover 100 x 100 mm
Depth	min. +3 mm behind cable

Perforated single & double wall systems

Type W25P (light weight)

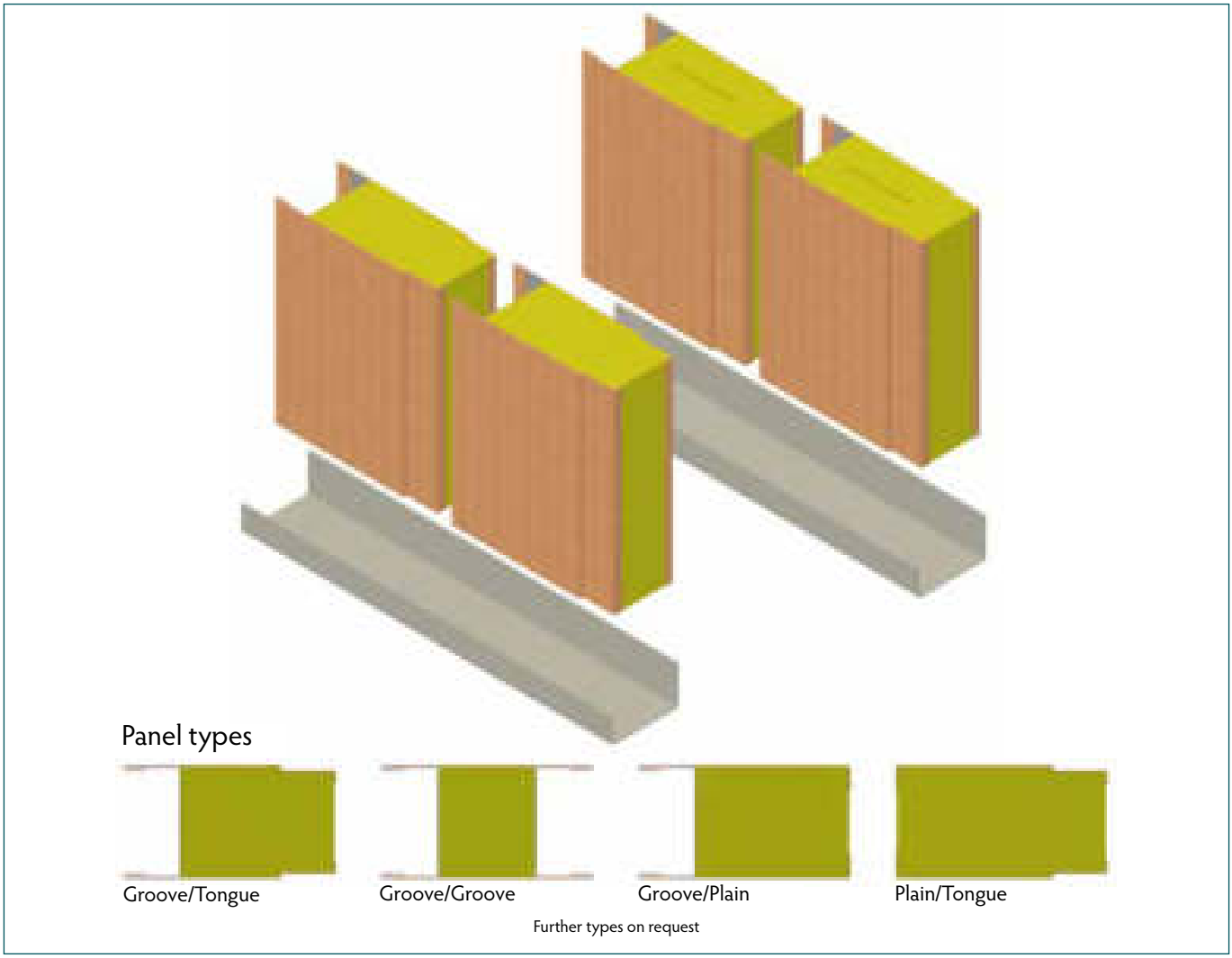


Technical data	W25P (light weight)
Covering layer (visible side)	Steel
Covering layer (back side)	Steel (perforated)
Fire classification	B-0 (single wall)
Sound reduction - single wall - 20 mm distance - 30 mm distance - 50 mm distance	 30 dB 30 dB / 50 dB* 46 dB / 52 dB* 48 dB / 54 dB*
Thickness	25 mm
Element width - Standard - Range	550 mm 250 - 600 mm
Element height	up to 2,475 mm
Weight - Panel - Cavity insulation (air gap) - Bottom profile	12.2 kg/m^2 +0.7 kg/m^2 (20 & 30 mm) +1.2 kg/m^2 (50 mm) 0.6 kg/m
Certified fixtures	Cable duct Reinforcements Backside cover Cable penetration
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* without / with cavity insulation

Partition panels

Type W50 & AP5SN



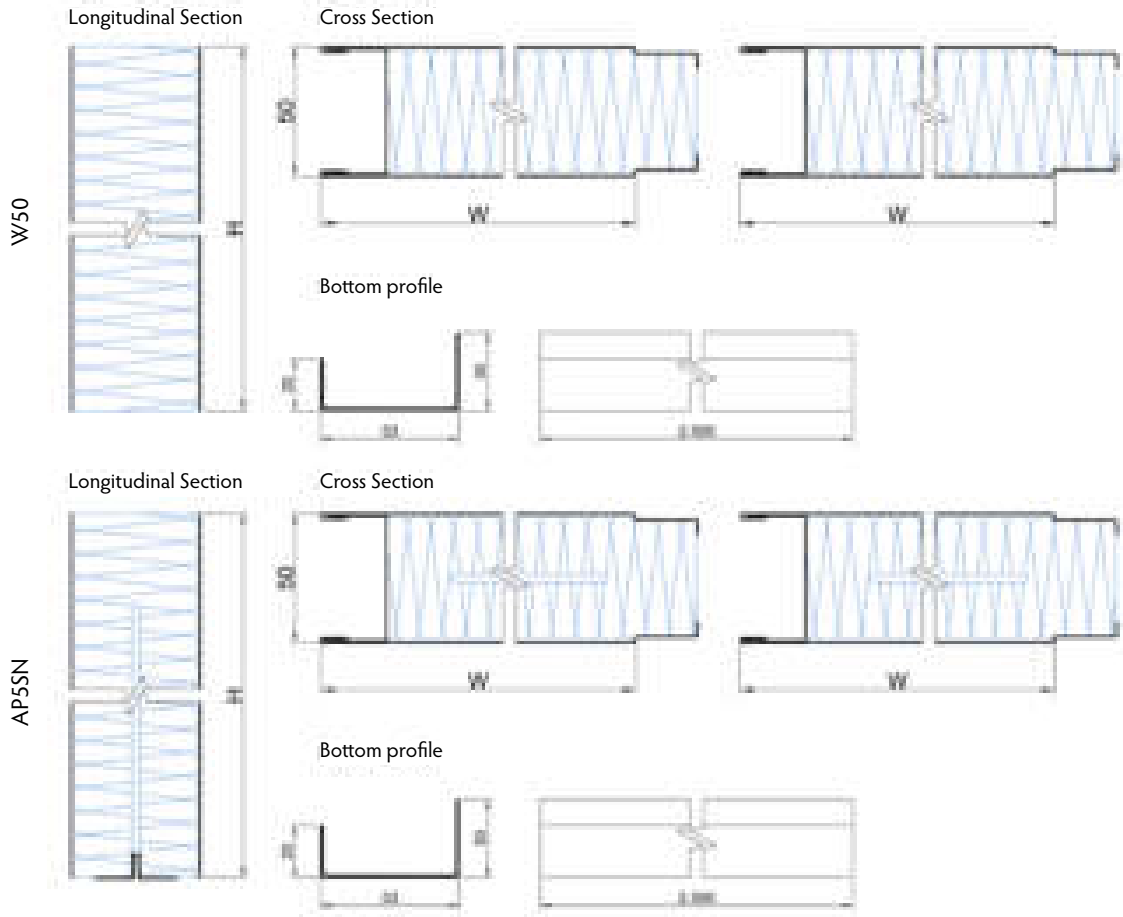
Further types on request

The W50 and AP5SN wall elements represent the standard system when it comes to the application of double-sided decorative partition panels. Depending on the customer specifications regarding sound reduction requirements different panel structures can be chosen. For all assembly situations, mutable connection types are available whereat as a standard the panel type with integrated tongue is being used.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the W50 and AP5SN panel system and all components have been tested and approved according to international standards.

Partition panels

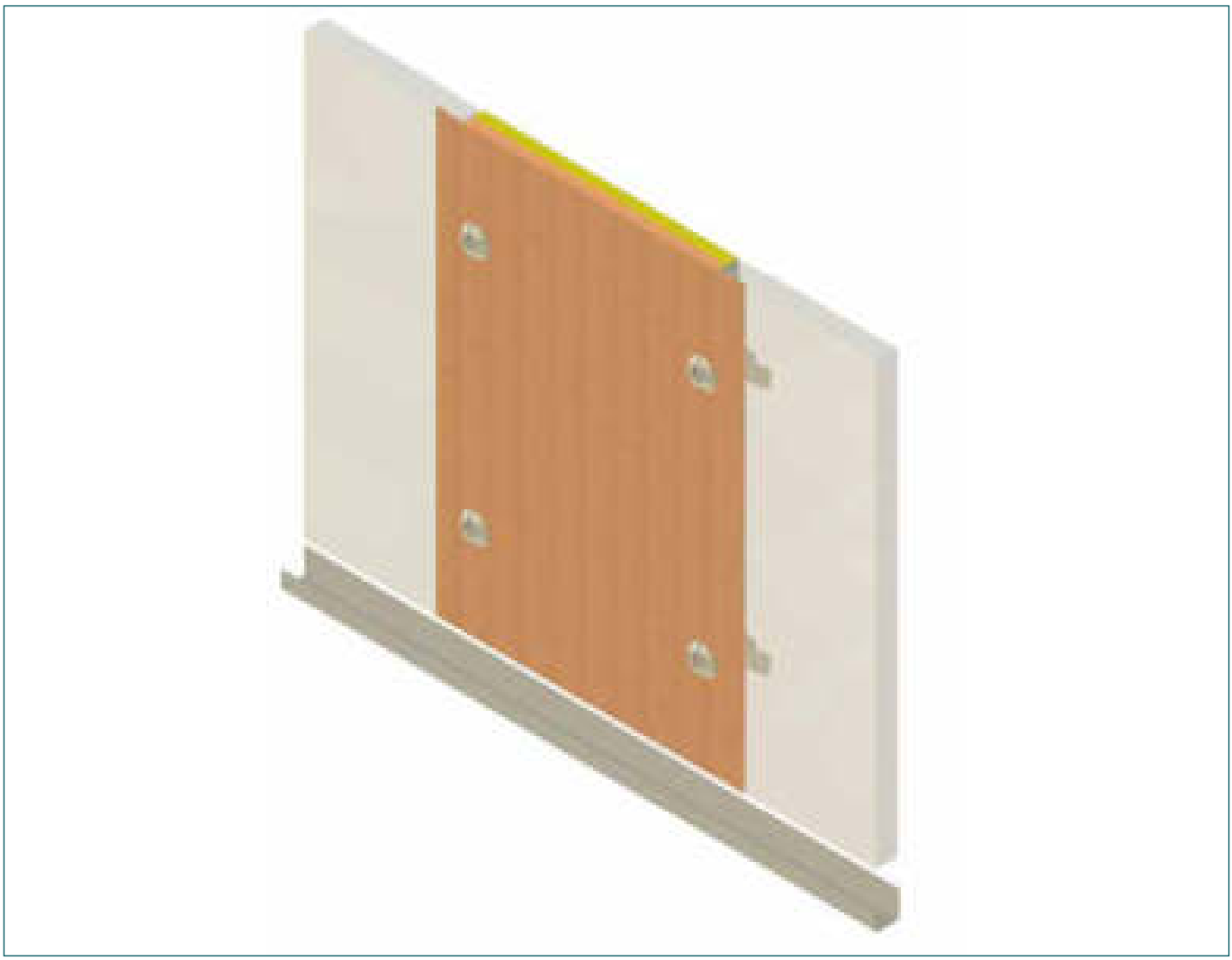
Type W50 & AP5SN



Technical data	W50	AP5SN
Covering layer (visible side)	Steel	Steel
Covering layer (back side)	Steel	Steel
Fire classification	B-15	B-15
Sound reduction	28 dB	40 dB
Thickness	50 mm	50 mm
Element width - Standard - Range	550 mm 250 - 1,100 mm	550 mm 250 - 600 mm
Element height	up to 2,500 mm	up to 2,500 mm
Weight - Panel - Bottom profile	18.0 kg/m^2 0.8 kg/m	20.1 kg/m^2 0.8 kg/m
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG

Removable wall element

Assembly panel

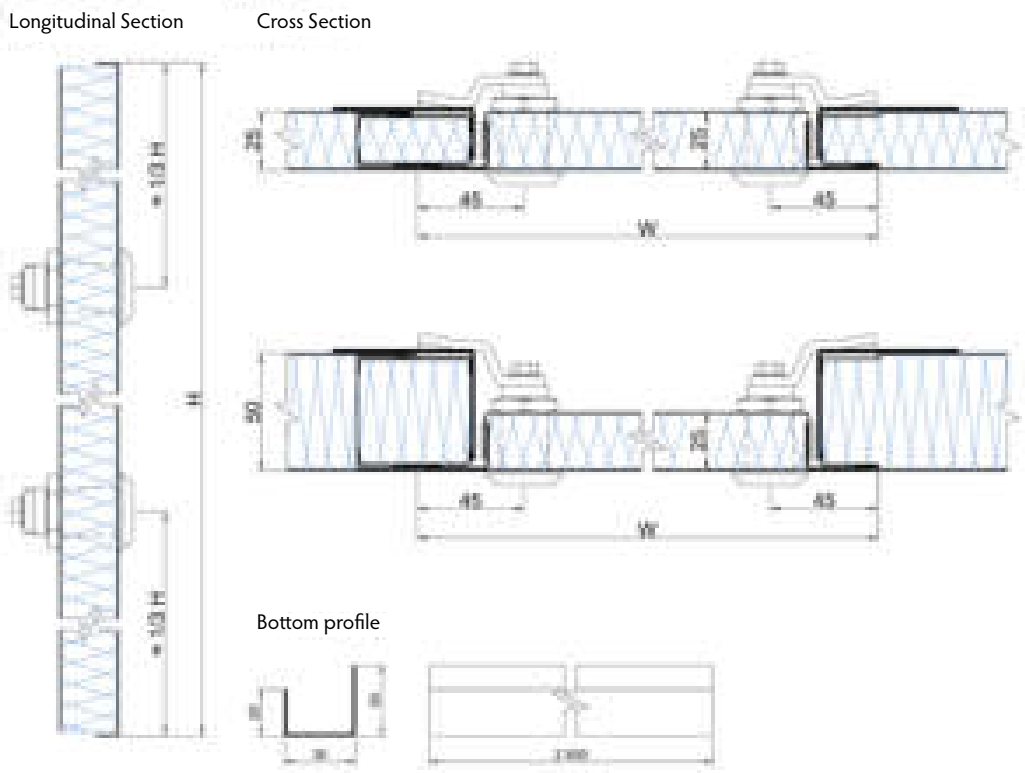


The assembly panel is used in areas where additional outfitting or technical components are placed behind the wall. By using different locking hooks, the panel can be easily incorporated into 25 mm and 50 mm wall constructions.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the assembly panel system all components have been tested and approved according to international standards.

Removable wall element

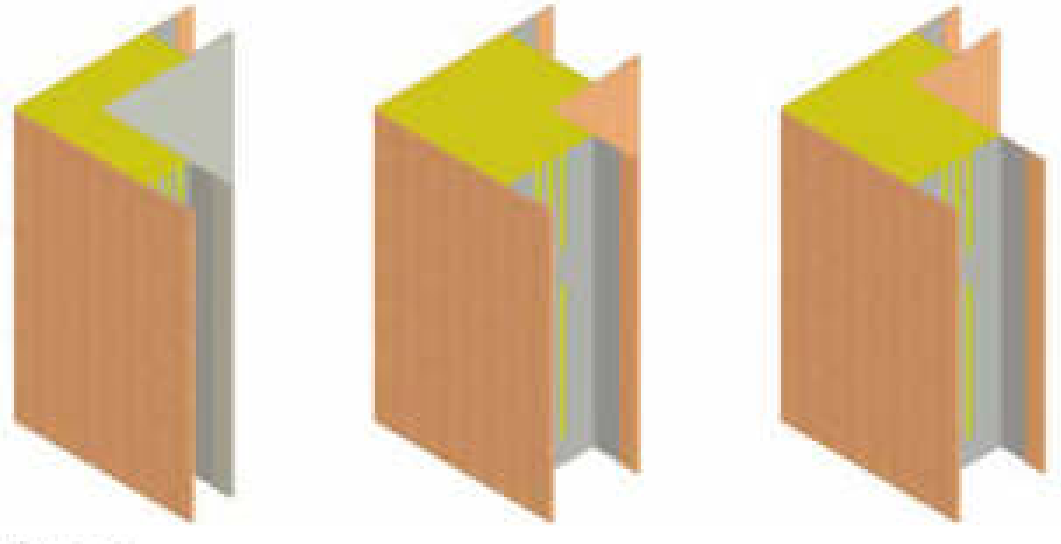
Assembly panel



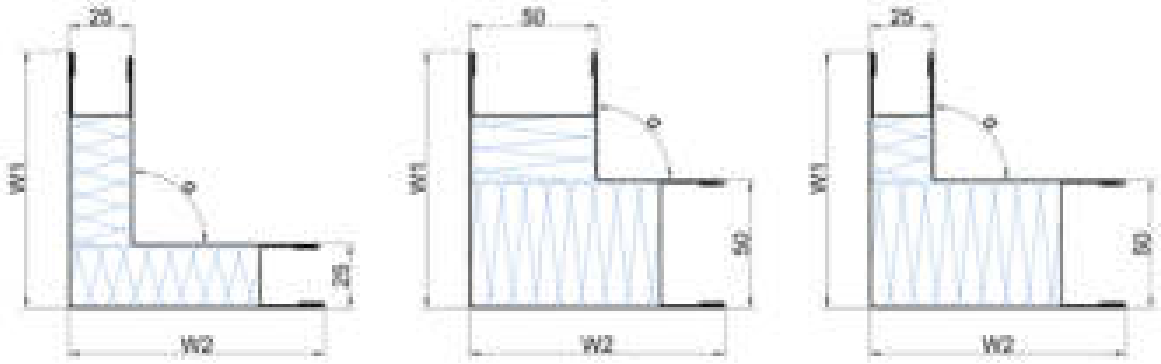
Technical data	Assembly panel
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-0
Sound reduction	---
Thickness	25 mm
Element width - Standard - Range	550 mm 250 - 800 mm
Element height	up to 2,475 mm
Weight - Panel - Bottom profile	14.9 kg/m^2 0.6 kg/m
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

Wall panel connections

Corner elements



Cross Sections

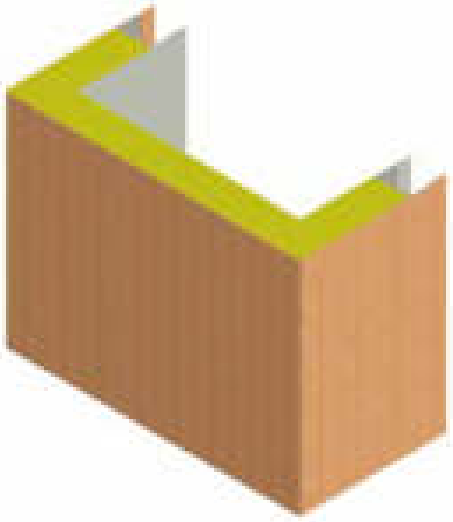


Technical data	W25CR	W50CR	W2550CR
Covering layer (visible side)	Steel or aluminum - according to adjacent wall panels		
Covering layer (back side)	Steel or aluminum - according to adjacent wall panels		
Thickness	25 mm	50 mm	25 / 50 mm
Element angle - Standard	90° - other angles according to customer specification		
Element width - Standard	150 x 150 mm - other sizes according to customer specification		
Element height	According to adjacent wall panels		
Weight - Steel / Steel* - Steel / Aluminum* - Aluminum / Aluminum*	9.1 kg 7.8 kg 5.7 kg	10.3 kg --- 7.3 kg	9.9 kg --- 6.8 kg
Bottom execution	Standard & Moist room		
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)

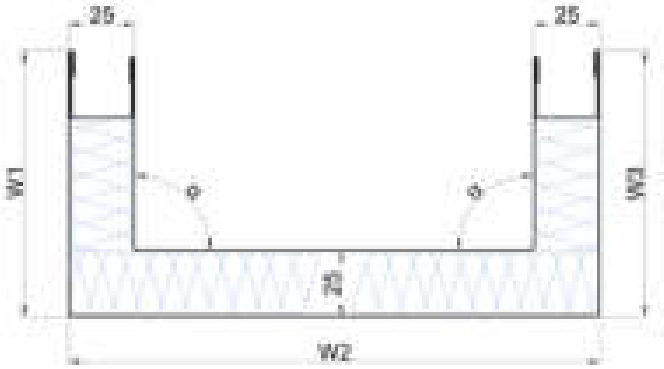
* based upon standard dimensions (150 x 150 x 2,200 mm)

Wall panel connections

Pillar covering



Cross Section

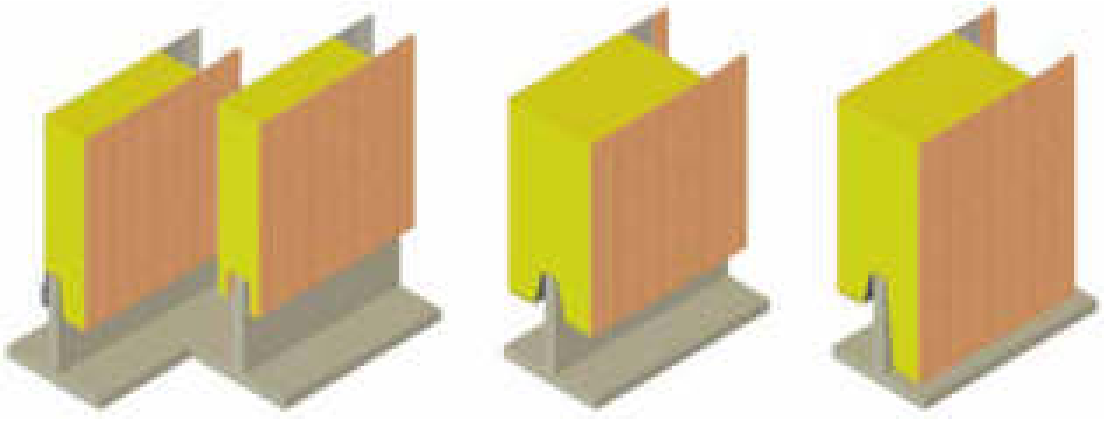


Technical data	W25CU
Covering layer (visible side)	Steel or aluminum - according to adjacent wall panels
Covering layer (back side)	Steel or aluminum - according to adjacent wall panels
Thickness	25 mm
Element angle	2 x 90°
Element width - Standard	150 x 200 x 150 mm - other sizes according to customer specification
Element height	According to adjacent wall panels
Weight - Steel / Steel* - Steel / Aluminum* - Aluminum / Aluminum*	12.2 kg 10.4 kg 7.2 kg
Coating	PVC foil varnish coated (others on request)

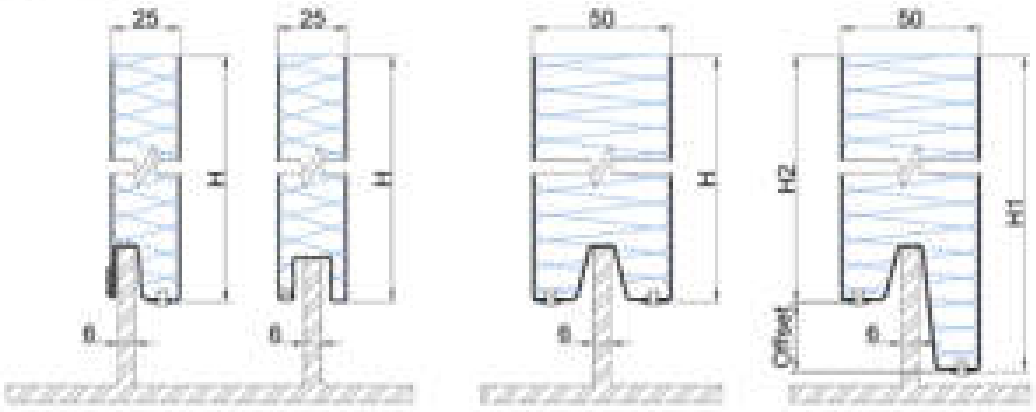
* based upon standard dimensions (150 x 200 x 150 x 2,200 mm)

Wall panel connections

Moist room panels



Longitudinal Sections

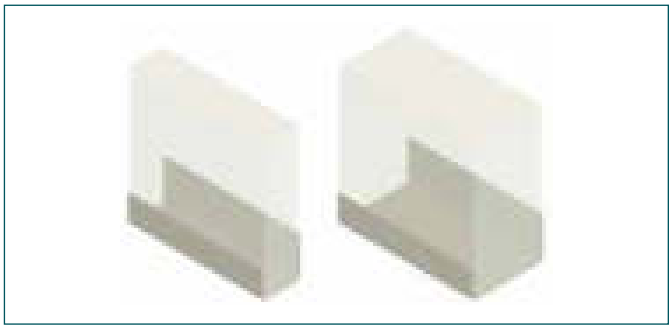


W25F W25F (USPH) W50F W50E

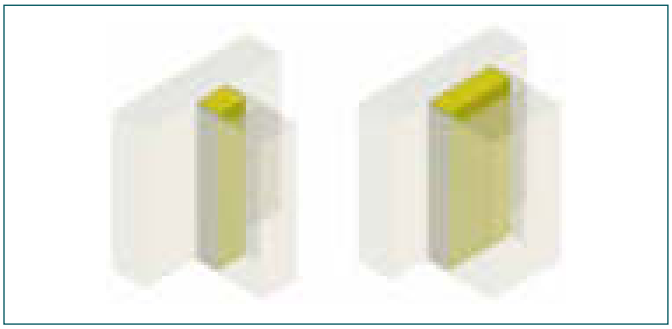
Technical data	W25F / W25F (USPH)	W50F	W50E
Covering layer (visible side)	Steel or aluminum - according to adjacent wall panels		
Covering layer (back side)	Steel or aluminum - according to adjacent wall panels		
Thickness	25 mm	50 mm	50 mm
Element width - Standard - Steel / Steel - Steel / Aluminum - Aluminum / Aluminum	 550 mm 250 - 1,200 mm 250 - 650 mm 250 - (not limited) mm	 550 mm 250 - 1,100 mm --- 250 - (not limited) mm	 550 mm 250 - 1,100 mm --- 250 - (not limited) mm
Element height	up to 2,475 mm	up to 2,500 mm	up to 2,500 mm
Weight - Steel / Steel - Steel / Aluminum - Aluminum / Aluminum	14.4 kg/m² 11.7 kg/m² 8.8 kg/m²	17.9 kg/m² --- 12.6 kg/m²	17.9 kg/m² --- 12.9 kg/m²
Moist room sill - Standard	6 mm	6 mm	6 mm
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)

Wall panel connections

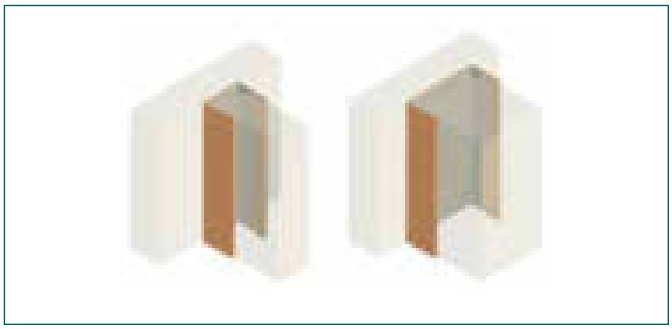
Profiles & Intersections



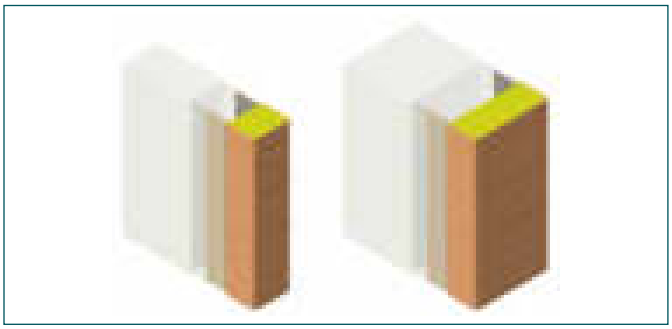
Technical data	Bottom profile 25 / 50
Material	Steel
Weight	0.6 / 0.8 kg/m
Length	2,500 mm (to be cut at site)



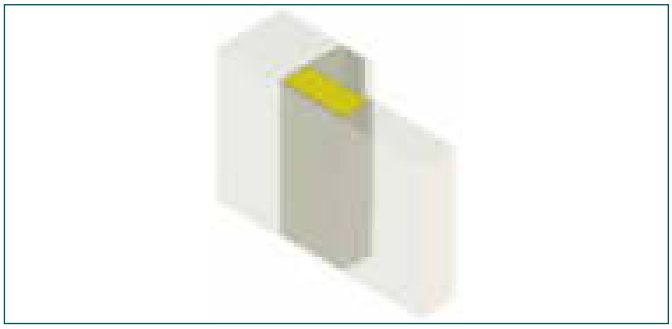
Technical data	Half tongue 25 / 50
Material	Steel
Weight	0.3 / 0.5 kg/m
Length	2,500 mm (to be cut at site)



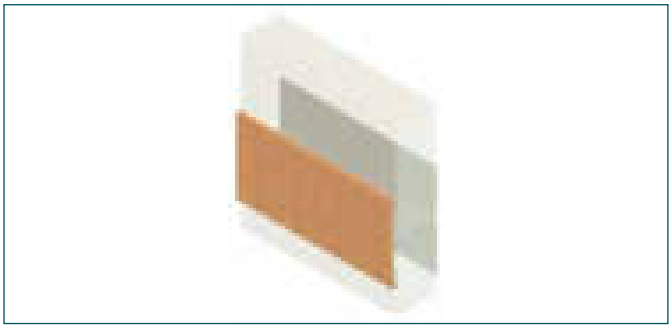
Technical data	Tolerance profile 25 / 50
Material	Steel
Weight	0.5 / 0.7 kg/m
Length	according to wall height



Technical data	End fitting profile 25 / 50
Material	Steel
Weight	0.5 / 0.7 kg/m
Length	according to wall height



Technical data	Intersection profile 25 to 50
Material	Steel or aluminum
Weight	1.4 kg/m^2
Length	according to wall height



Technical data	Horizontal joint profile 25
Material	Steel
Weight	1.2 kg/m
Length	2,500 mm (to be cut at site)

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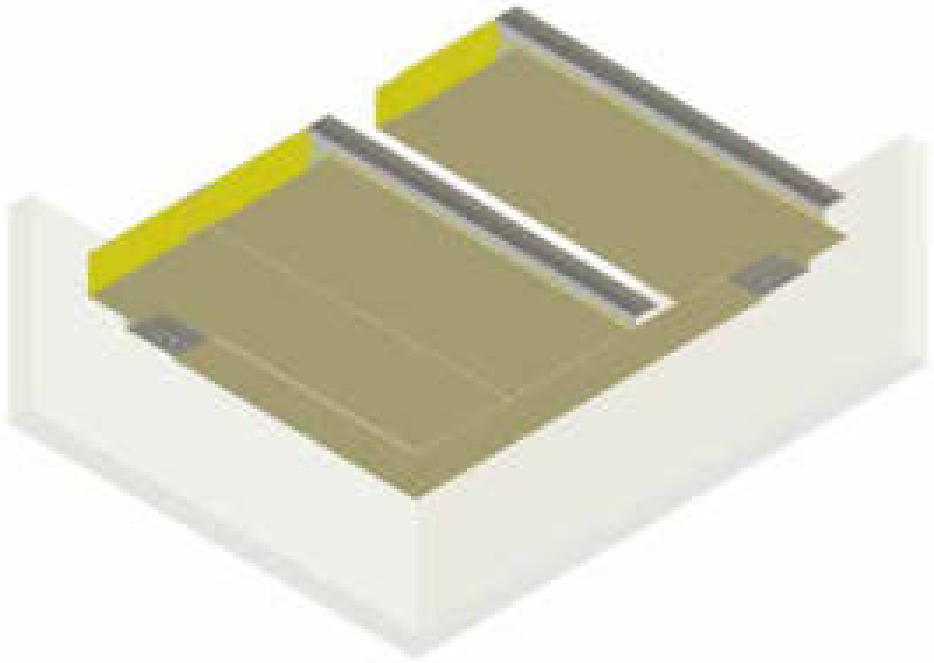
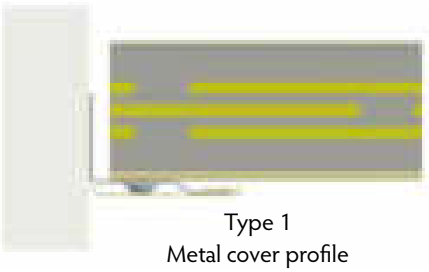
Ceilings

Ceiling panels

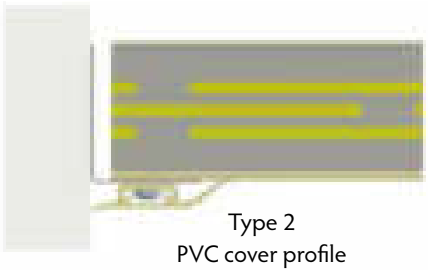
Type C30 & C40



Border profile types



Type 1
Metal cover profile



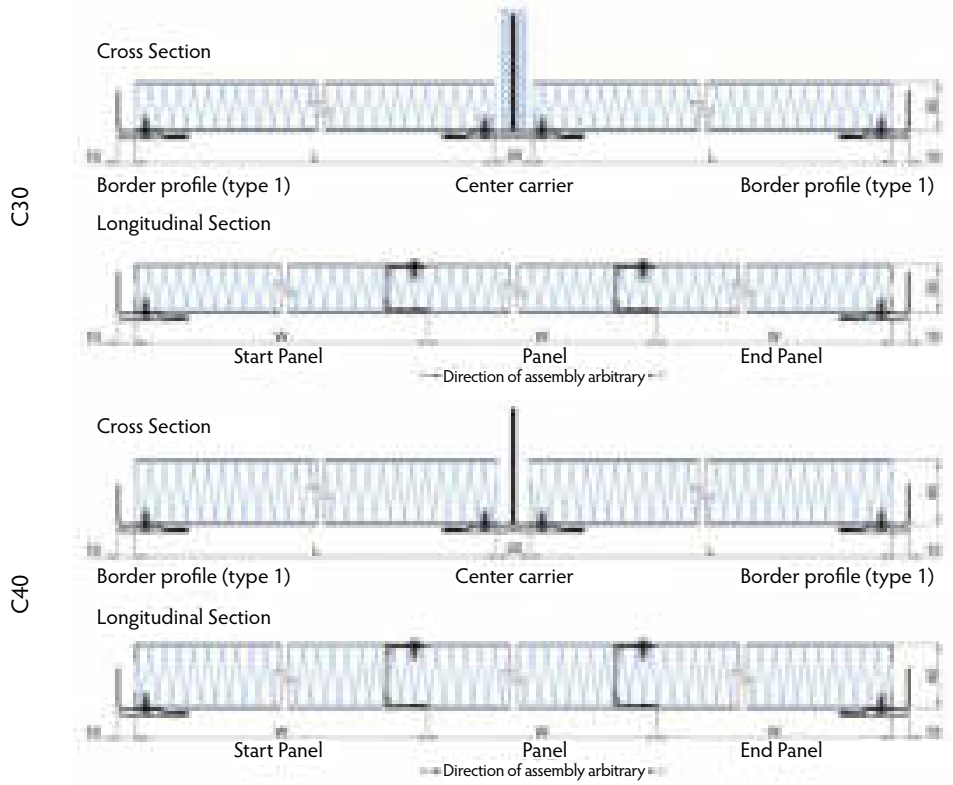
Type 2
PVC cover profile

The C30 and C40 ceiling elements represent the standard system when it comes to the assembly of prefabricated cabins. While the C30 is especially designed for wet units, the C40 is used for the cabin living area. Depending on the customer specifications different border profile types can be chosen. Both panel types are certified with several fixtures.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of C30 and C40 panel system and all components have been tested and approved according to international standards.

Ceiling panels

Type C30 & C40



Technical data	C30	C40
Covering layer (visible side)	Steel	Steel
Covering layer (back side)	Steel	Steel
Fire classification	B-15 / A-30*	B-15 / A-30*
Thickness	30 mm	40 mm
Element width - Standard	550 mm	550 mm
- Range	250 - 1,200 mm	250 - 710 mm
Element length	up to 3,000 mm - continuous ceiling	up to 3,000 mm - continuous ceiling
Weight - Panel	14.5 kg/m^2	16.1 kg/m^2
- Border profiles	0.8 kg/m / 0.6 kg/m**	0.8 kg/m / 0.6 kg/m**
- Center carrier	2.3 kg/m / 1.6 kg/m**	2.3 kg/m / 1.6 kg/m**
Certified fixtures	Topside cover for fixtures (downlight, speaker, etc.) Smoke detector Sprinkler/Hi-Fog Hatch for airconditioning	Topside cover or fixtures (downlight, speaker, etc.) Smoke detector Cable penetration Hatch for air conditioning
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG

* with overlying steel deck spaced min. 300 mm apart

** border profiles and center carrier type 1 (including cover profile) / type 2 (without customer specific PVC cover profile)

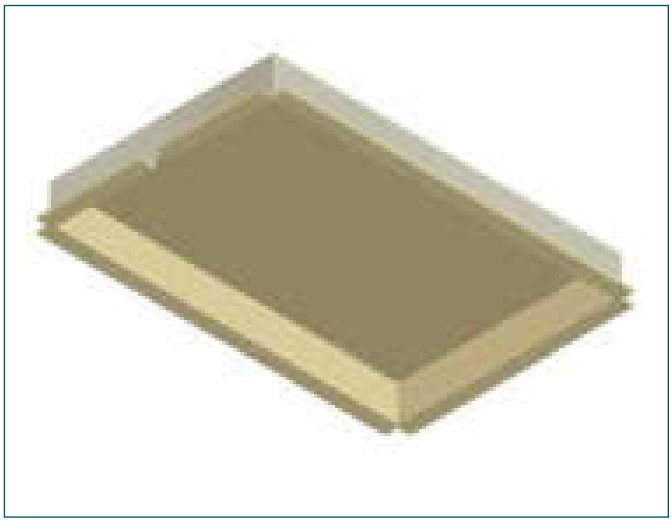
Ceiling panels

Certified fixtures for C30

Technical data	Topside cover (soft)
Fire class	B-15
Dimensions	up to 265 x 480 mm
Height	min. +3 mm above fixture

Technical data	Sprinkler/Hi-Fog
Fire class	B-15
Cut out	up to Ø 28 mm

Certified fixtures for C30 & C40

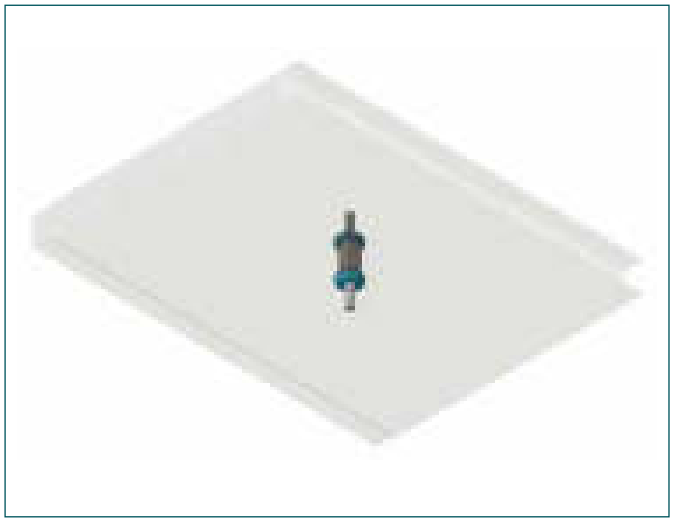


Technical data	Topside cover (hard)
Fire class	B-15
Dimensions	up to 450 x 700 mm
Height	min. +9 mm above fixture

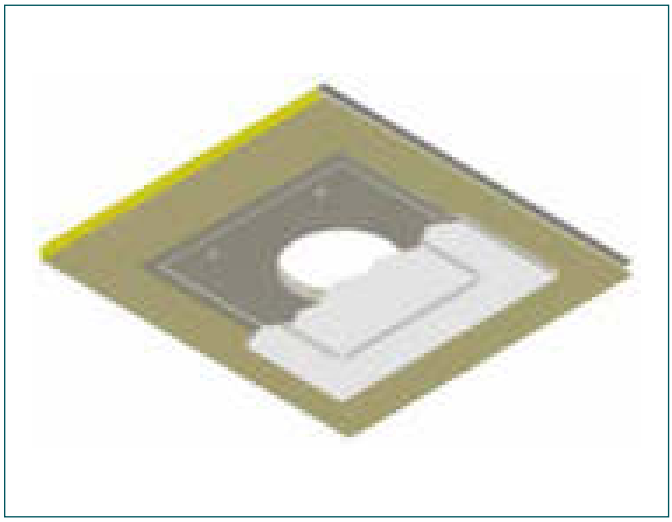
Technical data	Smoke detector
Fire class	B-15
Feature	including penetration for cable

Ceiling panels

Certified fixtures for C30 & C40



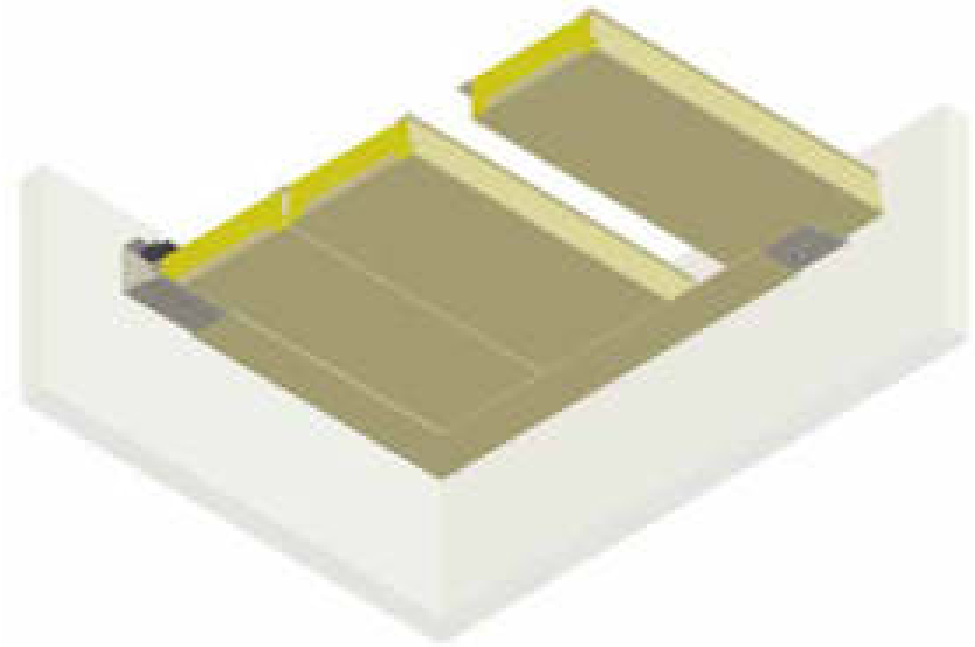
Technical data	Cable penetration
Fire class	B-15
Cut out	up to Ø 33 mm



Technical data	Hatch for air conditioning units
Fire class	B-15
Dimensions	up to 657 x 657 mm
Feature	including diffuser

Ceiling panels

Type ED35 & SD35



Border profile types

Type 1
Metal cover profile

Type 2
PVC cover profile

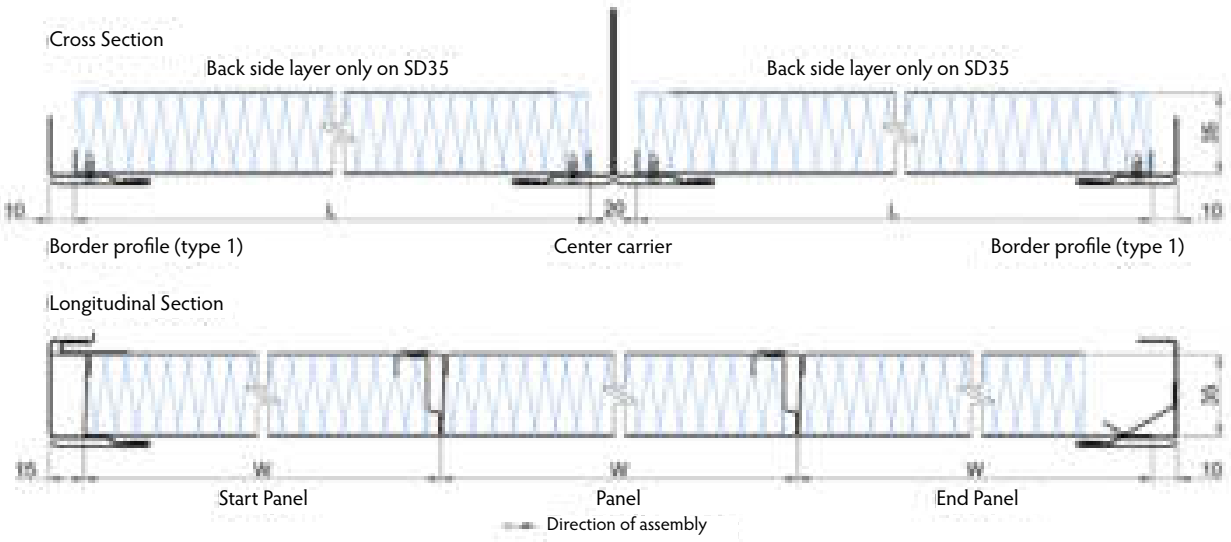
Type 3
Retention hook

The ED35 and SD35 ceiling elements represent the standard system when it comes to the assembly of conventional build areas. While the SD35 is fabricated as a sandwich panel the ED35 is a single shell ceiling whereat the shell can optionally be perforated. Depending on the customer specifications regarding possible removability different border profile types can be chosen.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the ED35 and SD35 panel system and all components have been tested and approved according to international standards.

Ceiling panels

Type ED35 & SD35



Technical data	ED35	SD35
Covering layer (visible side)	Perforated steel / steel	Steel
Covering layer (back side)	---	Steel
Fire classification	B-0 / A-15*	B-0 / A-30*
Thickness	35 mm	35 mm
Element width - Standard	300 mm	300 / 450 mm
- Range	280 - 450 mm	280 - 600 mm
Element length	up to 3,000 mm - continuous ceiling	up to 3,000 mm - continuous ceiling
Weight - Panel	7.5 kg/m² / 8.1 kg/m²	13.1 kg/m²
- Border profiles	0.8 kg/m / 0.6 kg/m / 1.4 kg/m**	0.8 kg/m / 0.6 kg/m / 1.4 kg/m**
- Center carrier	2.3 kg/m / 1.6 kg/m / 2.8 kg/m**	2.3 kg/m / 1.6 kg/m / 2.8 kg/m**
Certified fixtures	---	Topside cover for fixtures (downlight, speaker, etc.) Smoke detector Cable penetration Hatches
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG, RMRS	MED, USCG, RMRS

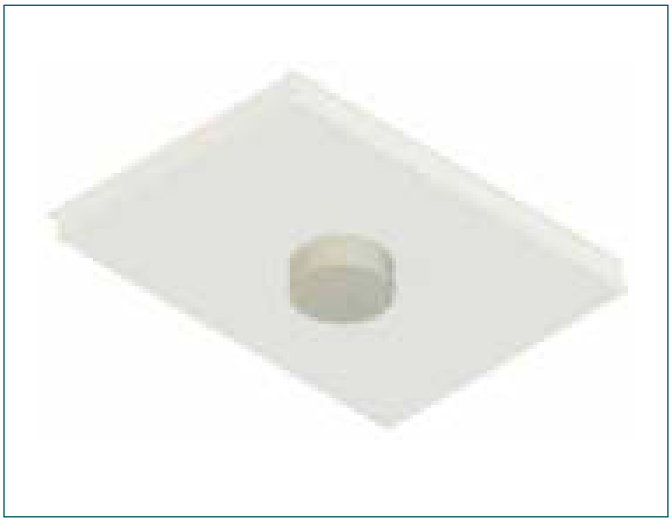
* with overlying steel deck spaced min. 300 mm apart

** border profiles and center carrier type 1 (including cover profile) / type 2 (without customer specific PVC cover profile) / type 3

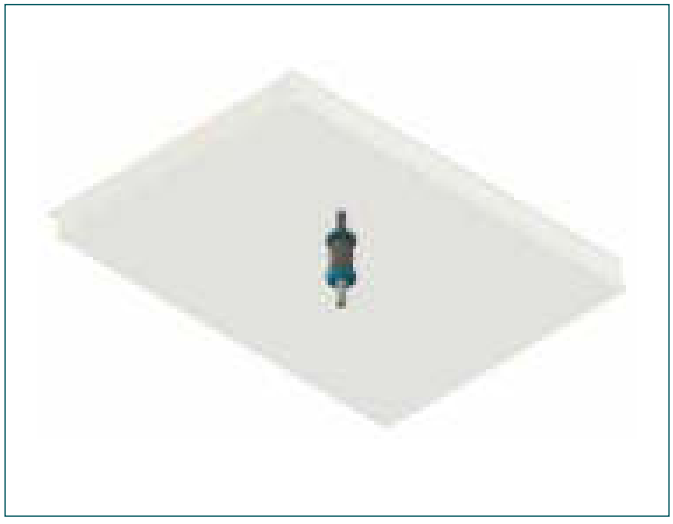
Ceiling panels

Certified fixtures for SD35

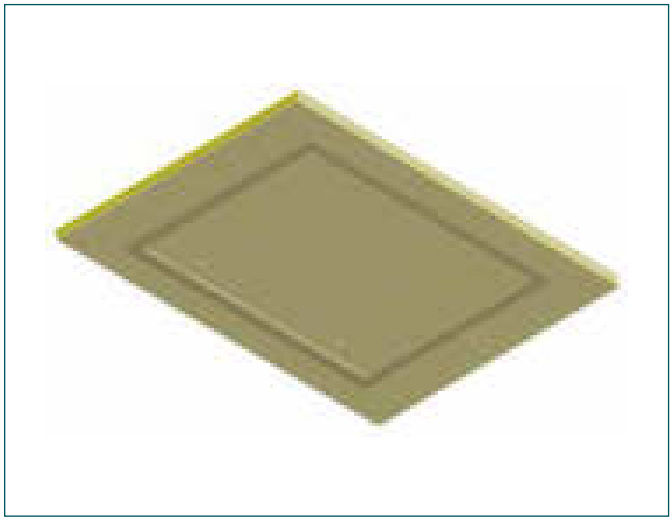
Technical data	Topside cover (soft)
Fire class	B-0
Dimensions	up to 450 x 700 mm
Height	min. +3 mm above fixture



Technical data	Smoke detector
Fire class	B-0
Feature	including penetration for cable



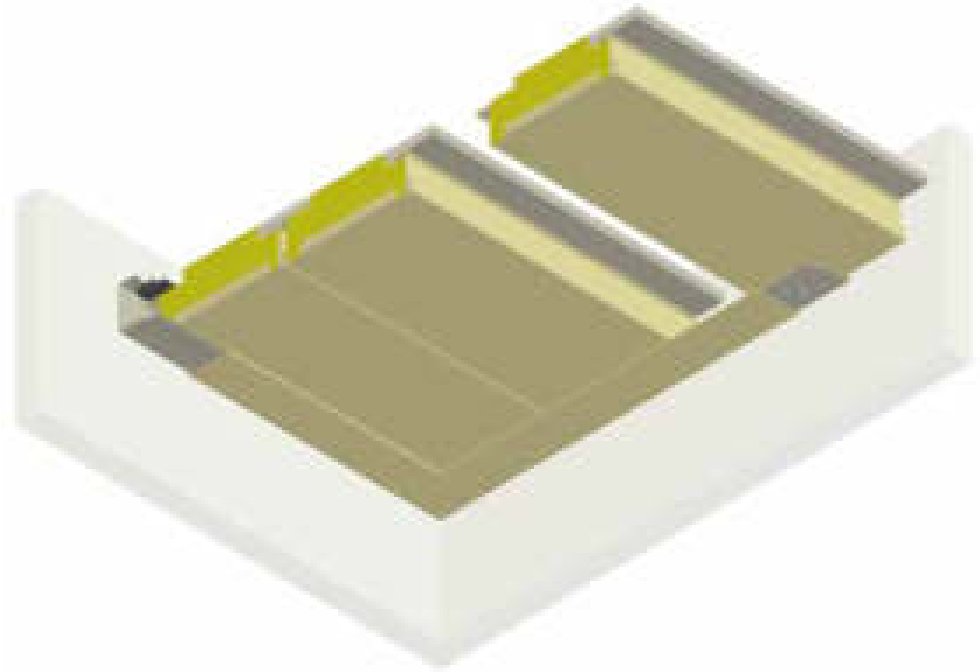
Technical data	Cable penetration
Fire class	B-0
Cut out	up to Ø 20 mm



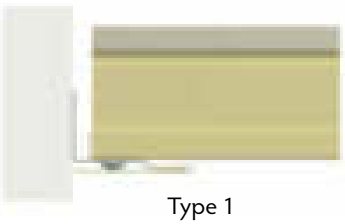
Technical data	Hatches
Fire class	B-0
Dimensions	Clear opening up to 600 x 800 mm

Ceiling panels

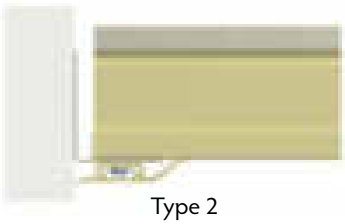
Type SD48



Border profile types



Type 1
Metal cover profile



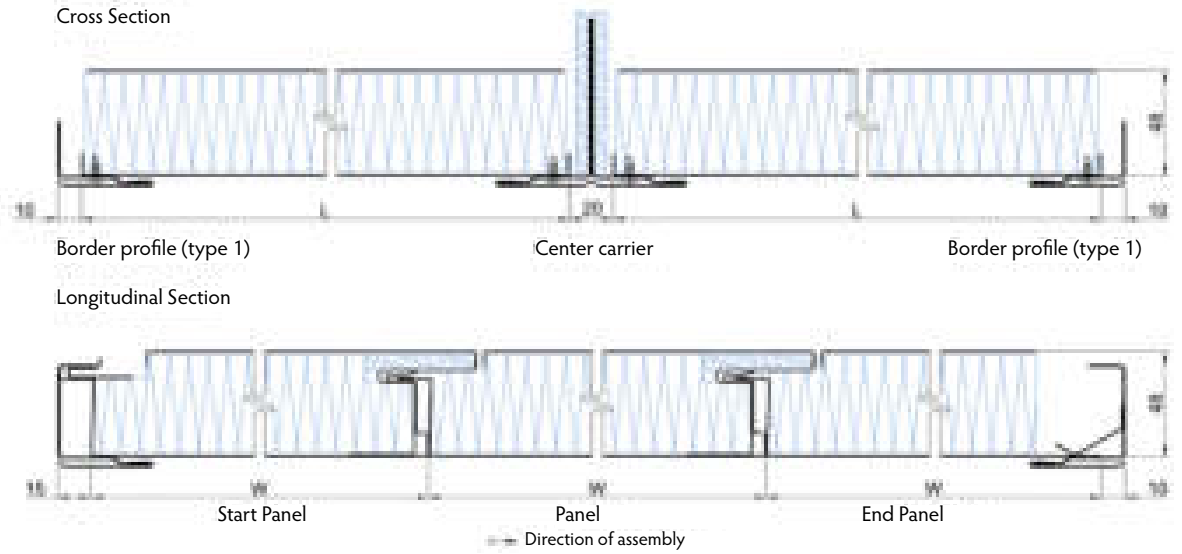
Type 2
PVC cover profile

The SD48 ceiling elements represent the standard system when it comes to the assembly of conventional build areas that require a B-15 fire rating. For easier maintenance purposes the higher fire rating, compared to the SD35 ceiling panel, is completely integrated into the panel structure without the need of an additional insulation layer on top. Depending on the customer specifications regarding possible removability different border profile types can be chosen.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the SD48 panel system and all components have been tested and approved according to international standards.

Ceiling panels

Type SD48



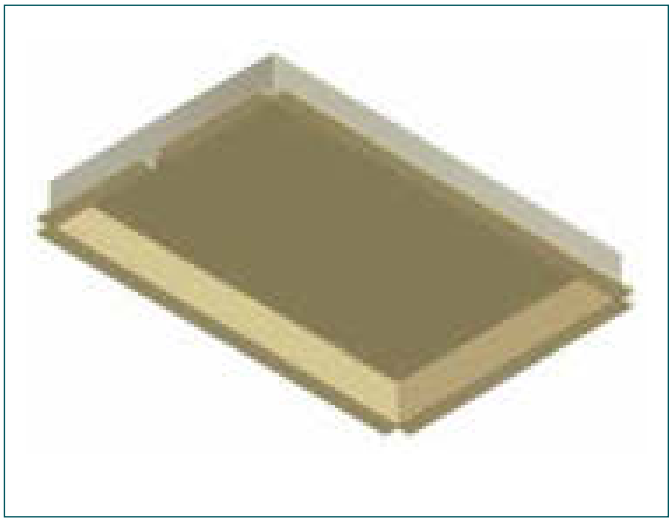
Technical data	SD48
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15 / A-30*
Thickness	48 mm
Element width - Standard - Range	300 / 450 mm 280 - 600 mm
Element length	up to 3,000 mm - continuous ceiling
Weight - Panel - Border profiles - Center carrier	16.5 kg/m² 0.8 kg/m / 0.6 kg/m ** 2.5 kg/m / 1.8 kg/m **
Certified fixtures	Cover for fixtures (downlight, speaker) Smoke detector Cable penetration Hatches
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG (in application)

* with overlying steel deck spaced min. 300 mm apart

** border profiles and center carrier type 1 (including cover profile) / type 2 (without customer specific PVC cover profile)

Ceiling panels

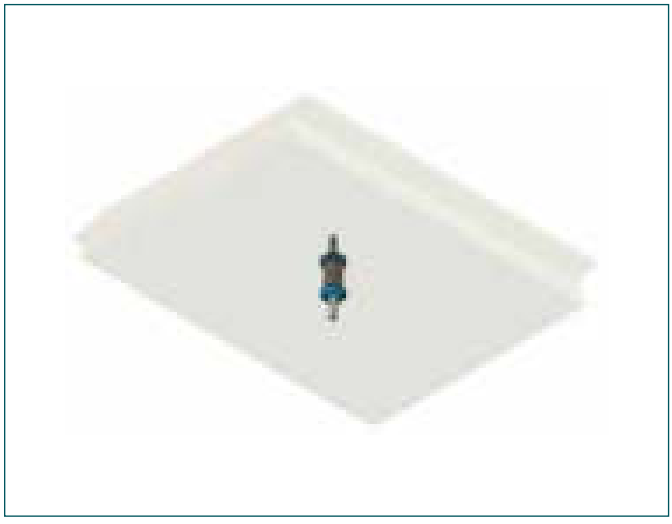
Certified fixtures for SD48



Technical data	Topside cover (hard)
Fire class	B-15
Dimensions	up to 450 x 700 mm
Height	min. +9 mm above fixture

Technical data	Topside cover (soft)
Fire class	B-15
Feature	up to 200 x 450 mm
Height	min. +3 mm above fixture

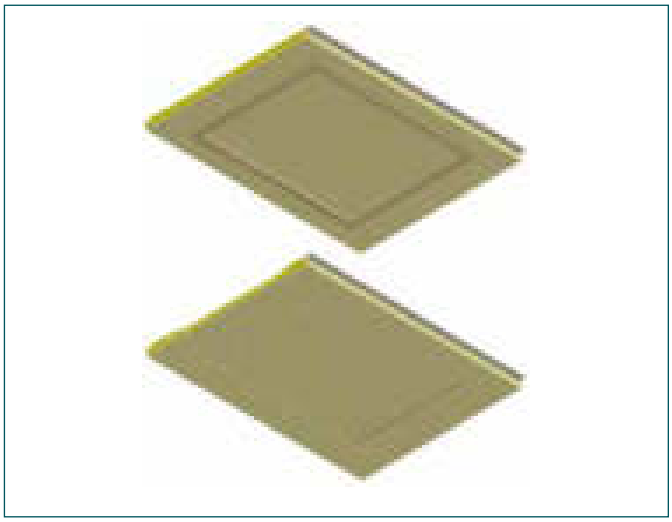
Technical data	Smoke detector
Fire class	B-15
Cut out	including penetration for cable



Technical data	Cable penetration
Fire class	B-15
Dimensions	up to Ø 20 mm

Ceiling panels

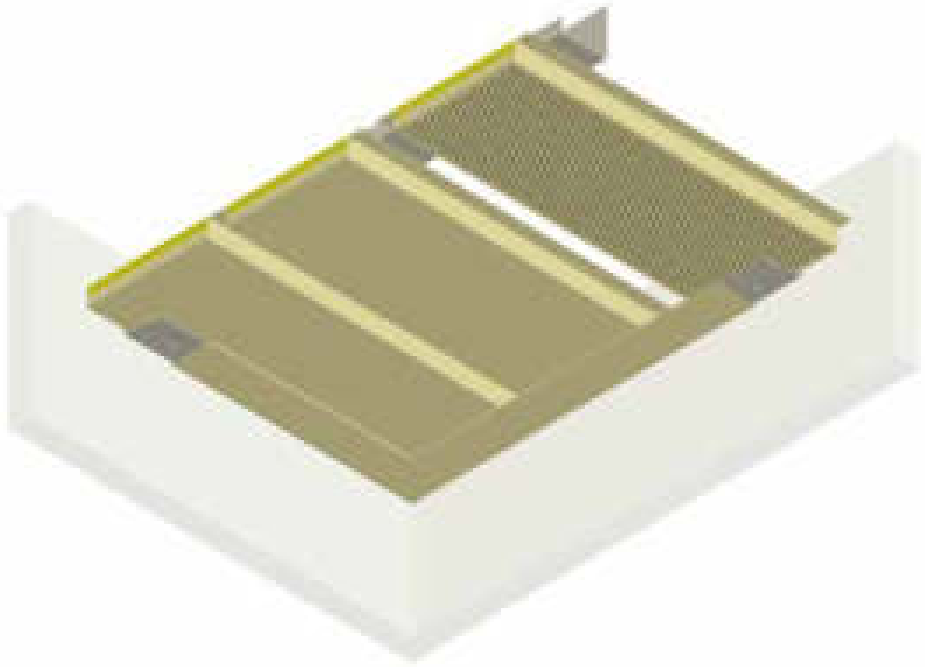
Certified fixtures for SD48



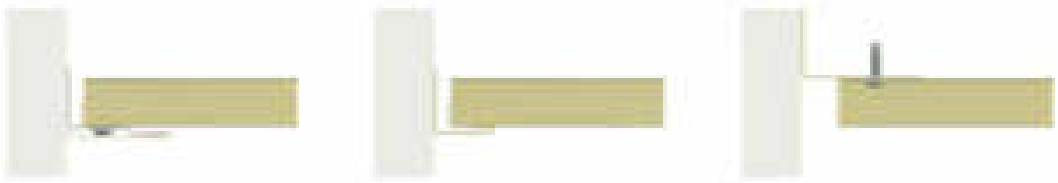
Technical data	Hatches
Fire class	B-15
Dimensions	Clear opening up to 600 x 800 mm

Ceiling panels

Type ED20K



Border profile types



Type 1
Metal cover profile

Type 2
PVC cover profile

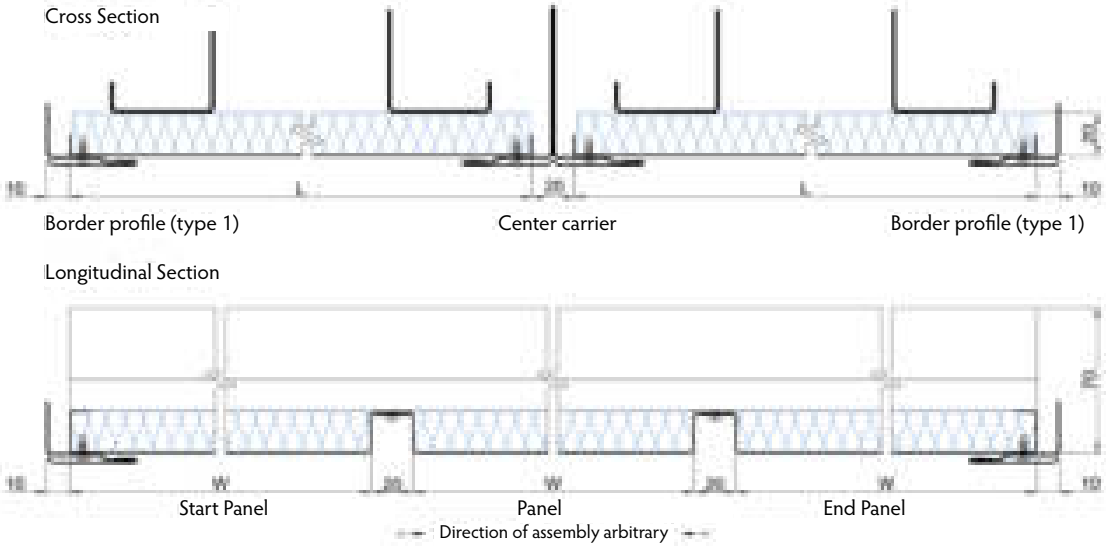
Type 2
PVC cover profile

The ED20K ceiling system joins the adjacent panels with a shadow gap. The panels are screwed together and arbitrary removable. Depending on the customer specifications different shadow gap widths and border profile types can be chosen.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The components of the ED20K panel system have been tested and approved according to international standards.

Ceiling panels

Type ED20K

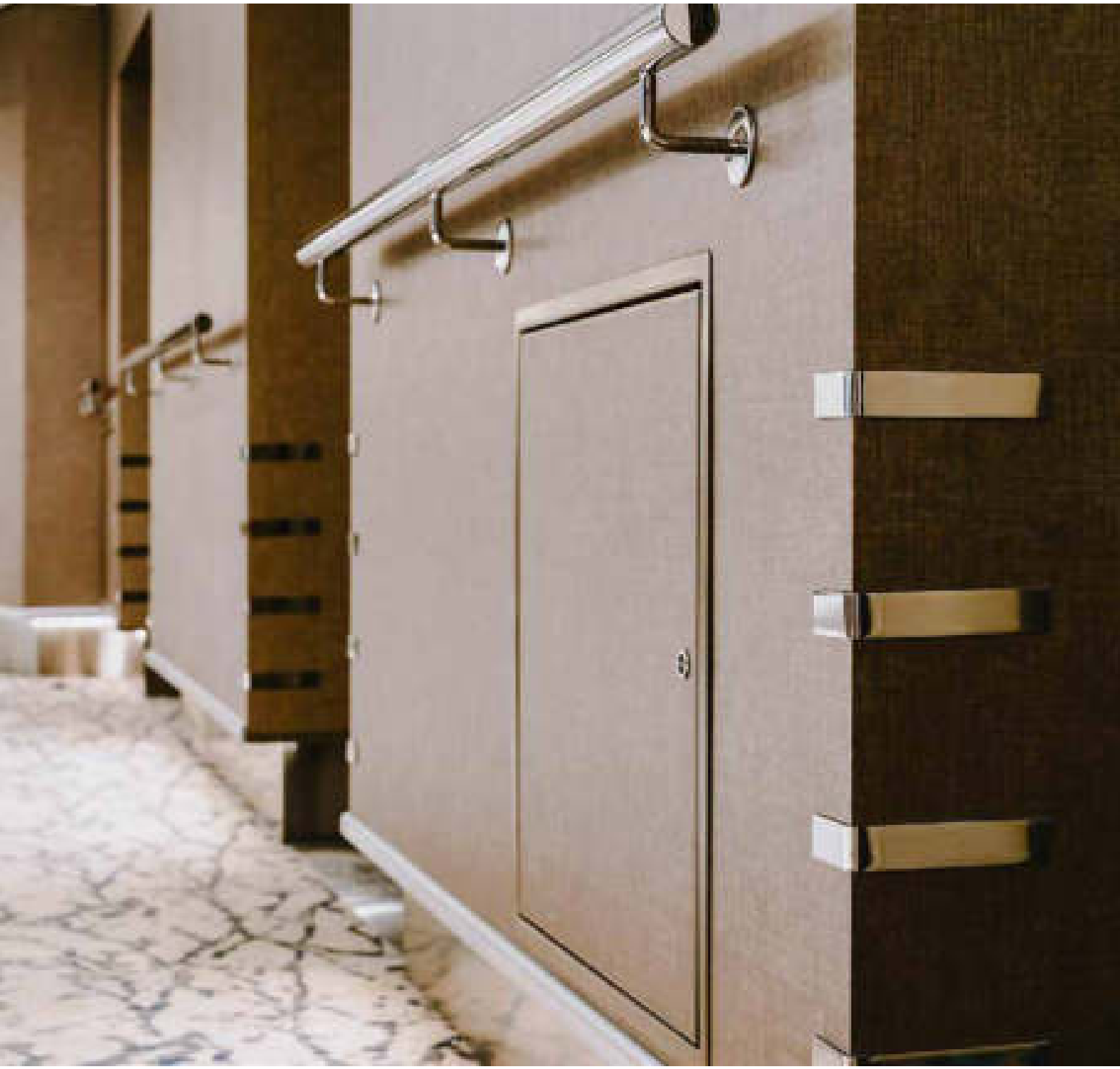


Technical data	ED20K	ED20K
Covering layer (visible side)	perforated steel / steel	perforated aluminum / aluminum
Covering layer (back side)	---	---
Fire classification	C	C
Thickness	20 mm	20 mm
Element width - Standard - Range	280 + 20 mm (panel + shadow gap) according to customer specification	280 + 20 mm (panel + shadow gap) according to customer specification
Element length	up to 3,000 mm - continuous ceiling	up to 3,000 mm - continuous ceiling
Weight - Panel - Border profiles - Center carrier - Substructure	6.1 kg/m² / 6.9 kg/m² 0.8 kg/m / 0.5 kg/m / 0.6 kg/m* 2.3 kg/m / 1.0 kg/m / 1.2 kg/m* 1.3 kg/m	3.4 kg/m² / 3.7 kg/m² 0.8 kg/m / 0.5 kg/m / 0.6 kg/m* 2.3 kg/m / 1.0 kg/m / 1.2 kg/m* 1.3 kg/m
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	---	---

* border profiles and center carrier type 1 (including cover profile) / type 2 / type 3

Rheinhold & Mahla

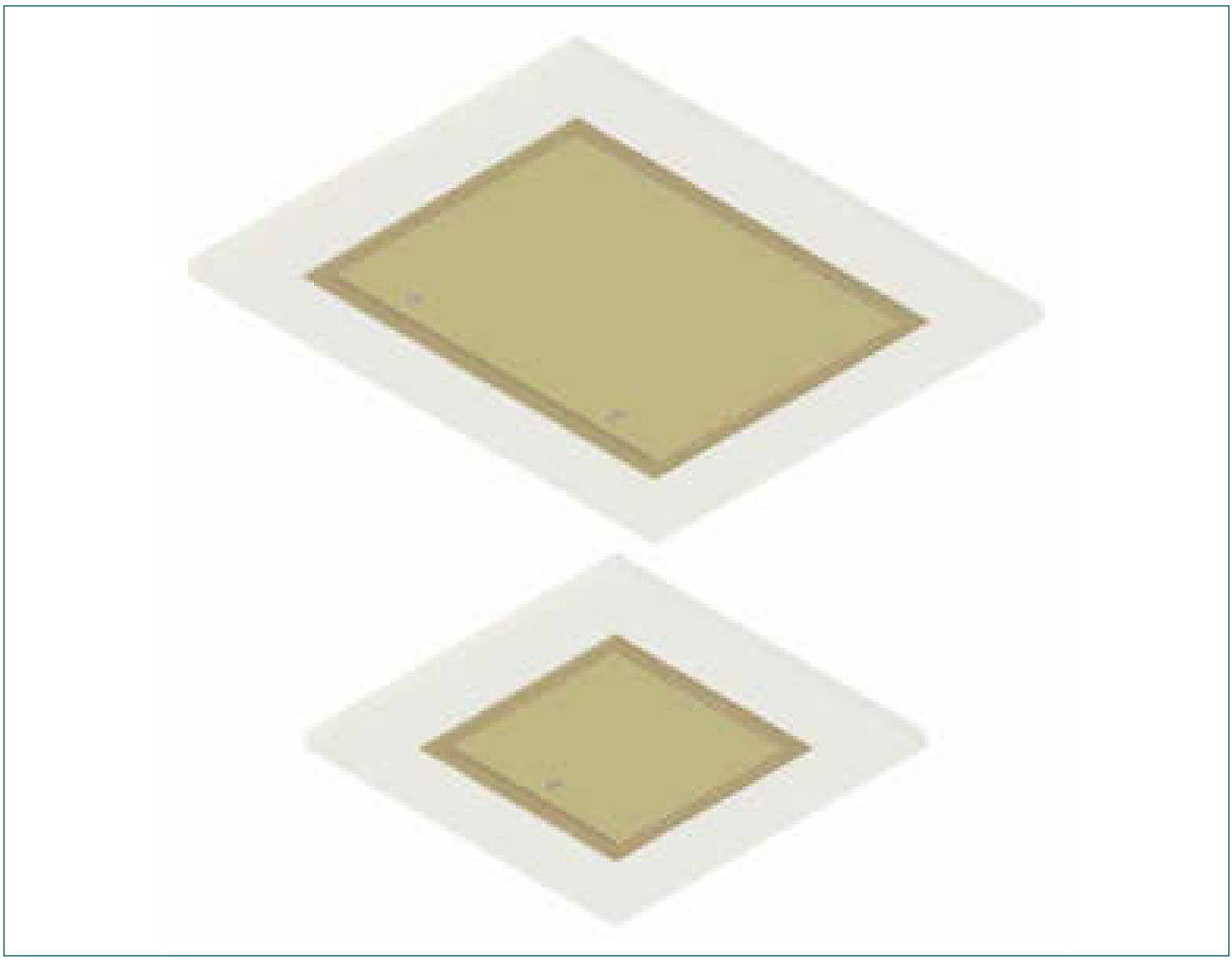
Since 1887



Hatches

Inspection hatches

Type B-0 hatch with frame for ceilings



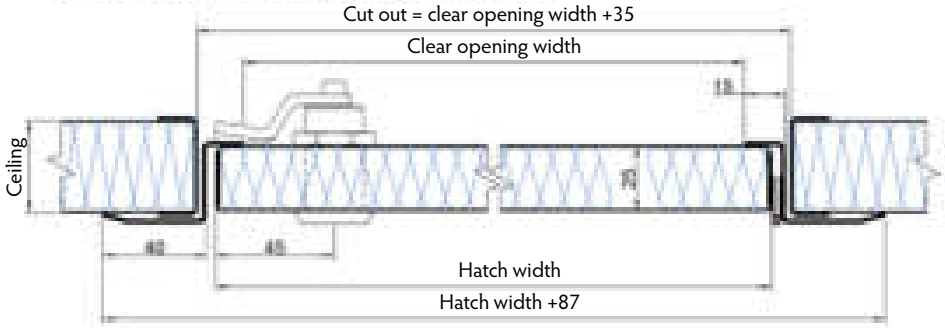
The hatch with frame can be used in B-0 fire rated ceiling systems. Depending on the hatch size a 1 or 2 point closing mechanism is used. The hatch is fastened to the adjacent panels by screwing into the surrounding reinforcement, which stiffens the cut out.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the hatch with frame and all components have been tested and approved according to international standards.

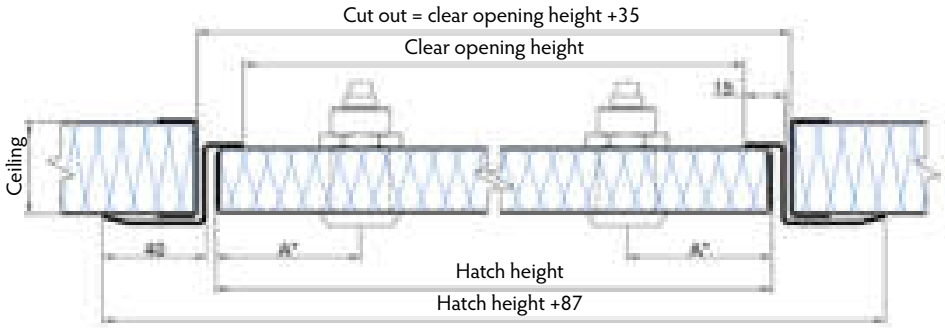
Inspection hatches

Type B-0 hatch with frame for ceilings

Cross section shown with adjacent ceiling panels



Longitudinal section shown with adjacent ceiling panels



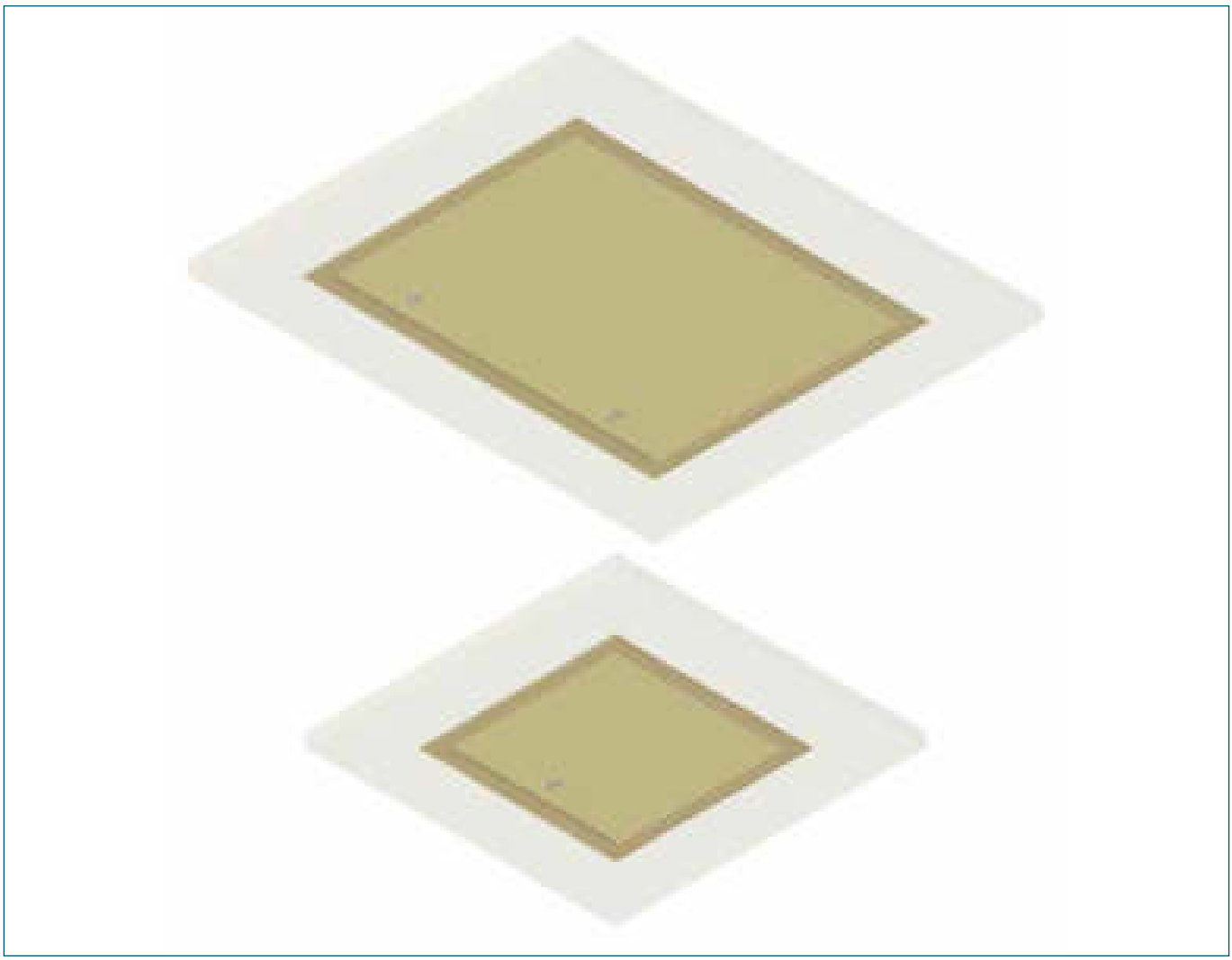
*dimension depening on height of hatch, in case of 1 point mechanism lock centered

Technical data	B-0 hatch with frame for ceilings
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-0
Thickness	25 mm
Element width	Clear opening up to 600 mm
Element height	Clear opening up to 800 mm
Closing mechanism	1 point or 2 point closing device *
Weight	~ 11 kg **
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* 1 point closing for clear opening up to 400 x 400 mm, 2 point closing for clear opening larger than 400 x 400 mm
** based upon maximum dimensions

Inspection hatches

Type B-15 hatch with frame for ceilings



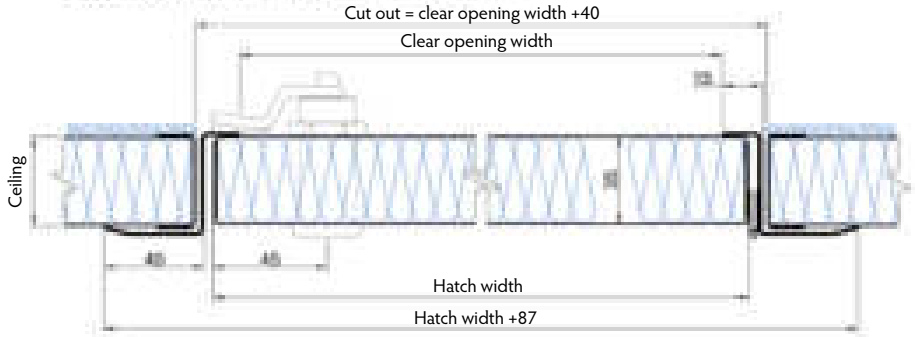
The hatch with frame can be used in B-15 fire rated ceiling systems. Depending on the hatch size a 1 or 2 point closing mechanism is used. The hatch is fastened to the adjacent panels by screwing into the surrounding reinforcement, which stiffens the cut out.

A large variety of surface finishes are available, all of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the hatch with frame and all components have been tested and approved according to international standards.

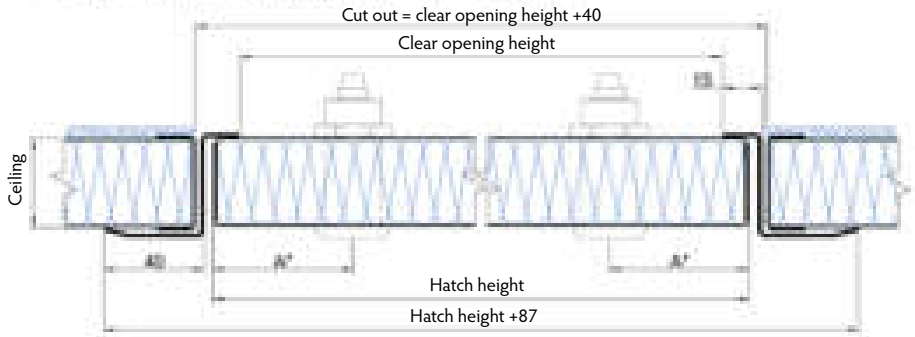
Inspection hatches

Type B-15 hatch with frame for ceilings

Cross section shown with adjacent ceiling panels



Longitudinal section shown with adjacent ceiling panels



*dimension depending on height of hatch, in case of 1 point mechanism lock centered

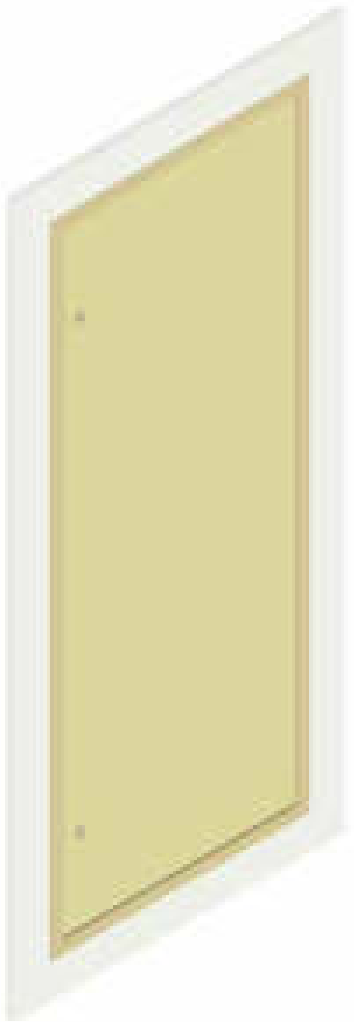
Technical data	B-15 hatch with frame for ceilings
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Thickness	35 mm
Element width	Clear opening up to 600 mm
Element height	Clear opening up to 800 mm
Closing mechanism	1 point or 2 point closing device *
Weight	~ 13 kg **
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* 1 point closing for clear opening up to 400 x 400 mm, 2 point closing for clear opening larger than 400 x 400 mm

** based upon maximum dimensions

Inspection hatches

Hatch with frame for walls



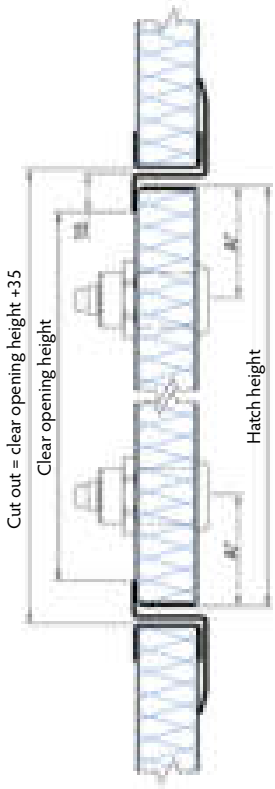
The hatch with frame can be used in B-15 fire rated wall systems. For opening and closing a 2 point mechanism is used. The hatch can be assembled into 25 mm and 50 mm thick wall elements and is fastened to the adjacent panels by screwing into the surrounding reinforcement, which stiffens the cut out. Depending on customer specifications the visible flange of the hatch frame can be reduced from 40 mm to 25 mm.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the hatch with frame and all components have been tested and approved according to international standards.

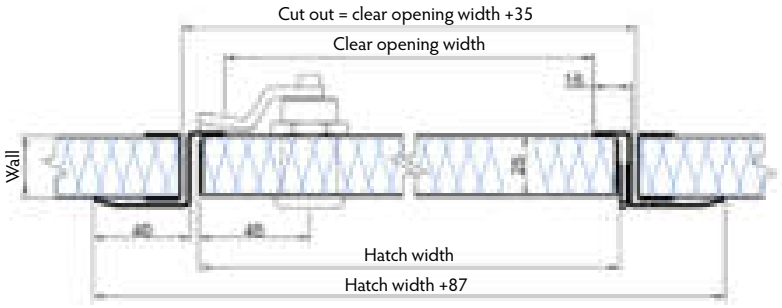
Inspection hatches

Hatch with frame for walls

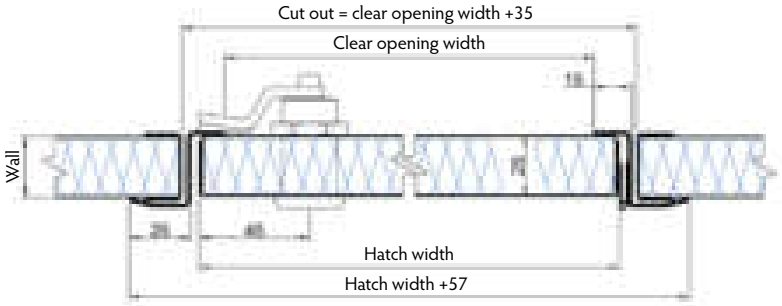
Longitudinal section



Cross section shown with 40 mm flange of frame



Cross section shown with 25 mm flange of frame



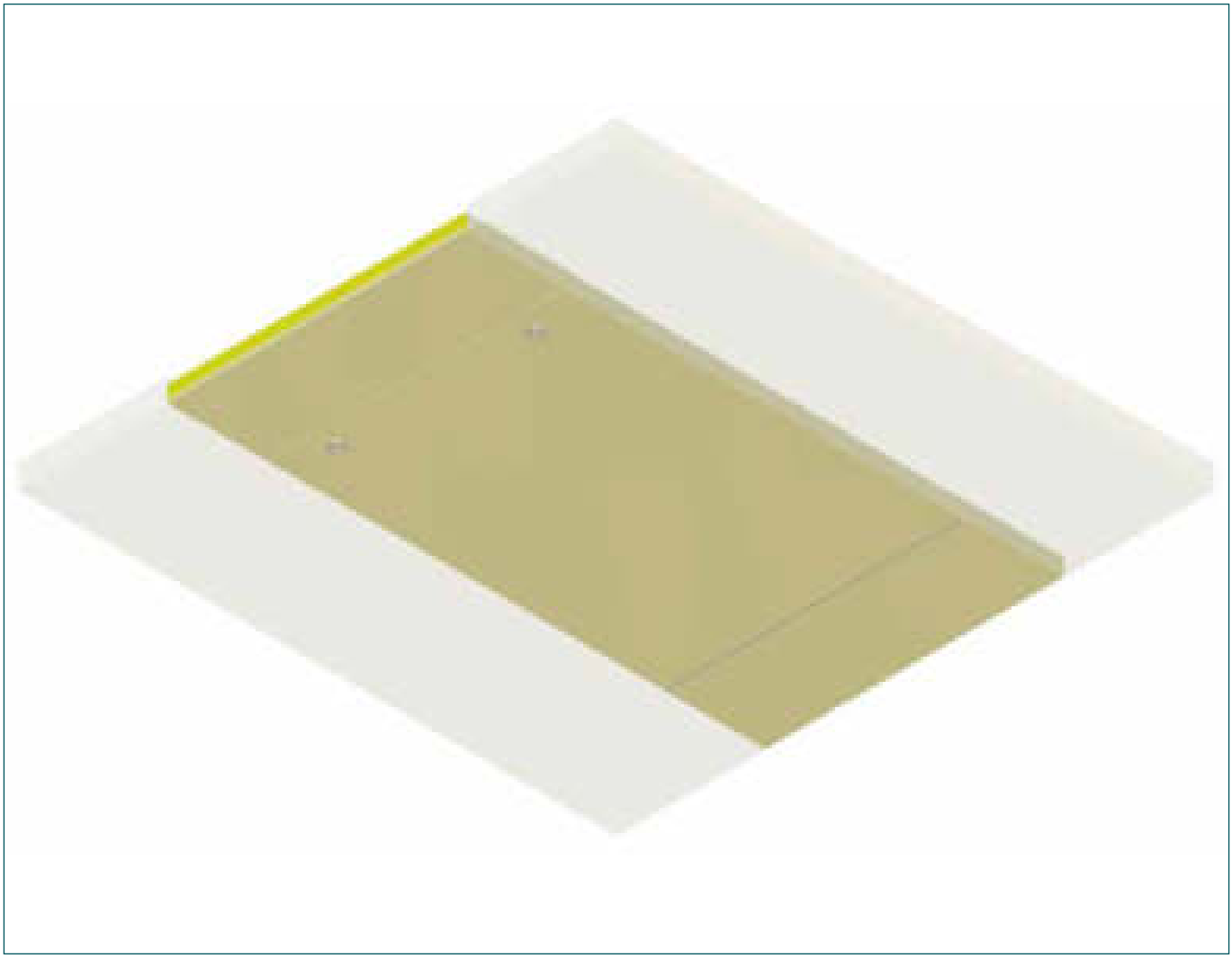
*dimension depending on height of hatch

Technical data	Hatch with frame for walls
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Thickness	25 mm
Element width	Clear opening up to 680 mm
Element height	Clear opening up to 1,830 mm
Closing mechanism	2 point closing device
Weight	~ 25 kg *
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* based upon maximum dimensions

Inspection hatches

Integrated hatch for ceilings



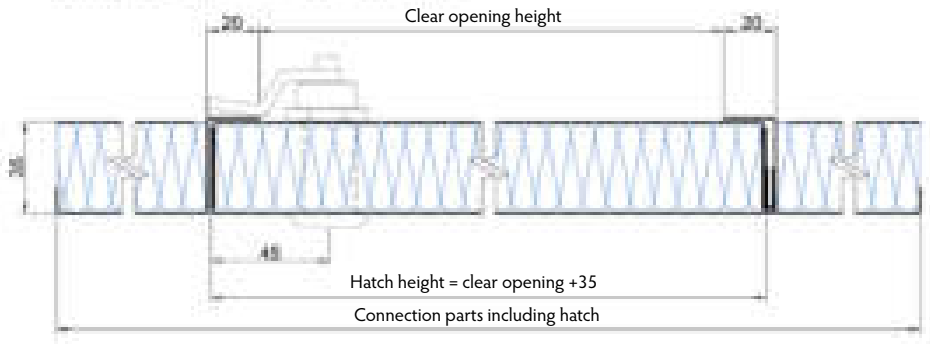
The integrated hatch can be used in B-15 fire rated ceiling systems. For opening and closing a 2 point mechanism is used. The hatch is delivered with the required connecting parts, which guarantee a smooth transition along the adjacent ceiling panels.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the integrated hatch and all components have been tested and approved according to international standards.

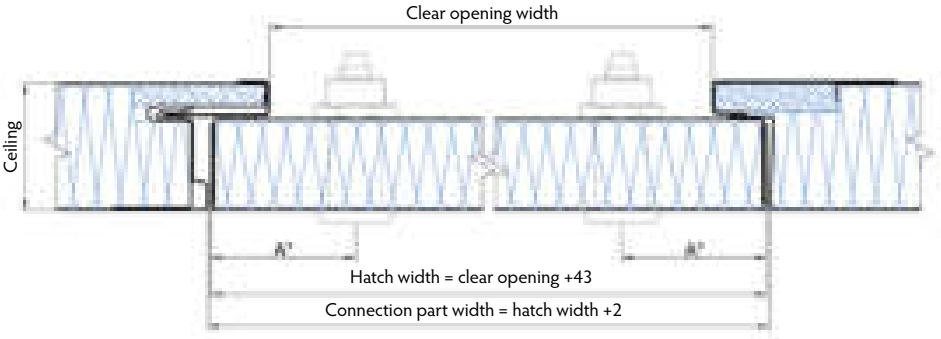
Inspection hatches

Integrated hatch for ceilings

Cross section shown with connection parts



Longitudinal section shown with adjacent ceiling parts



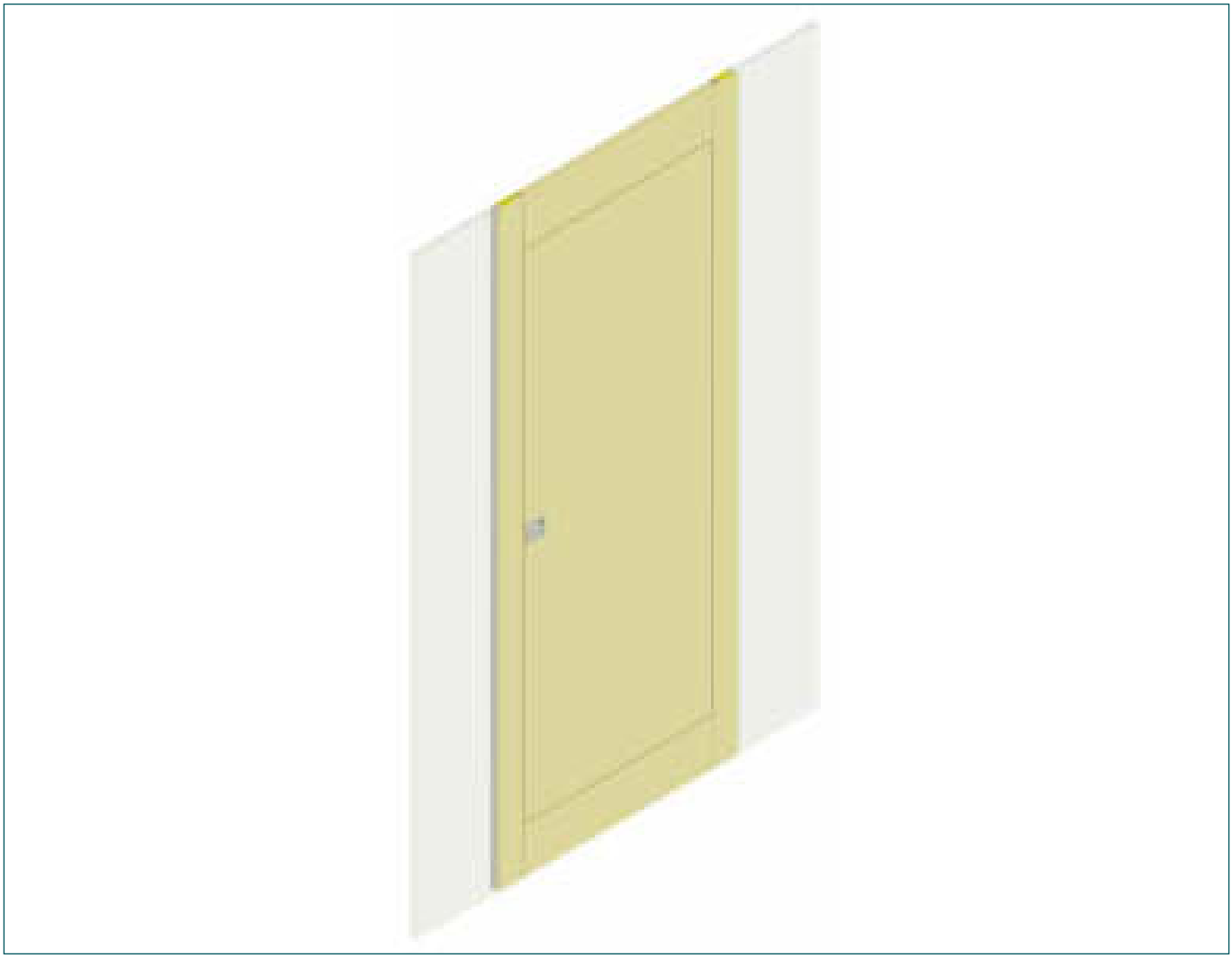
*dimension depending on width of hatch

Technical data	Integrated hatch for ceilings
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Thickness	35 mm
Element width - Hatch - Connection parts	Clear opening up to 555 mm up to 600 mm
Element height - Hatch - Connection parts	Clear opening up to 765 mm up to 3,000 mm including hatch
Closing mechanism	2 point closing device
Weight	~ 13 kg*
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* based upon maximum dimensions of hatch with connection parts in total height of 1,200 mm

Inspection hatches

Integrated hatch for walls

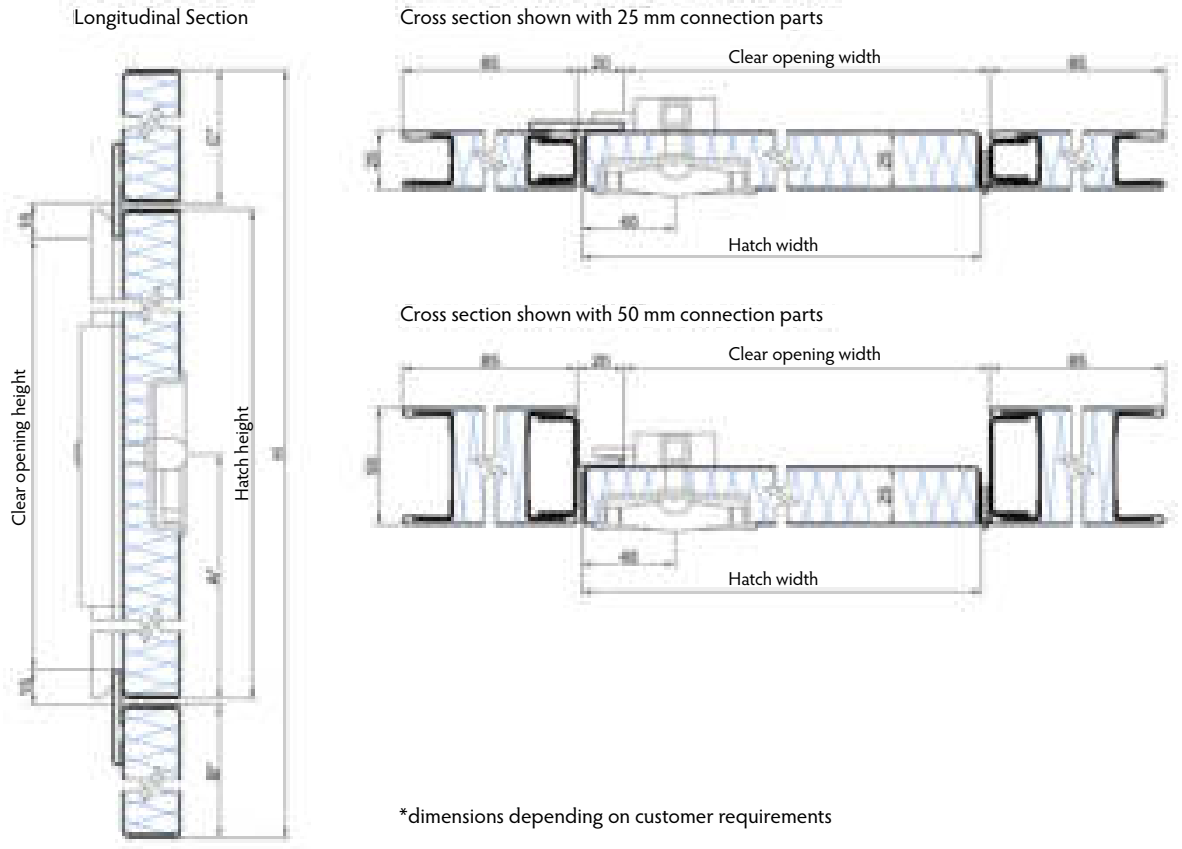


The integrated hatch can be used in B-15 fire rated wall systems. For opening and closing a 3 point mechanism is used. The hatch is delivered with the required surrounding connecting parts and can therefore be fitted into 25 mm and 50 mm thick wall elements, which guarantee a smooth transition along the adjacent wall panels.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the integrated hatch and all components have been tested and approved according to international standards.

Inspection hatches

Integrated hatch for walls



Technical data	Integrated hatch for walls
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Thickness	25 mm
Element width	Clear opening up to 685 mm
Element height - Hatch - Wall elements	Clear opening up to 1,825 mm up to 2,475 mm
Closing mechanism	3 point closing device
Weight	~ 33 kg*
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* based upon maximum dimensions of hatch and 25 mm wall elements with a height of 2,200 mm

Rheinhold & Mahla

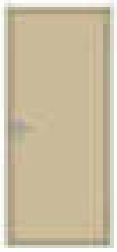
Since 1887

Doors

Accommodation doors

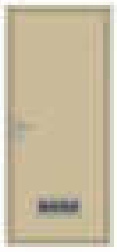
Type B-15M Type I & Type II

Product range

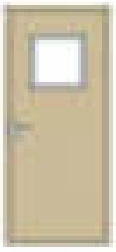


B-15M Type I & II
(single)

B-15M Type I
(Kick-out)



B-15M Type I
(Ventilation)



B-15M Type I
(Window)

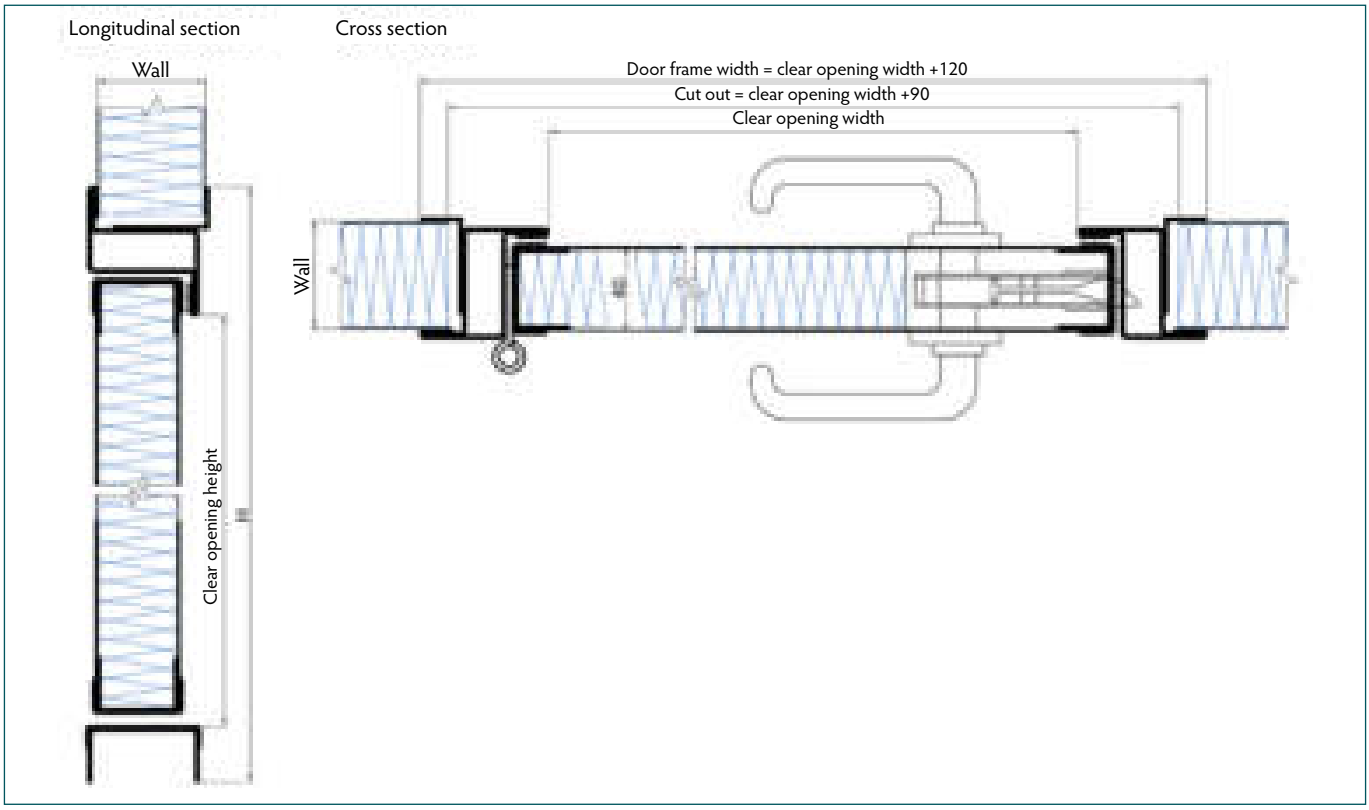
B-15M Type I & II
(Over panel)

The B-15M accommodation door is used in B-15 fire rated wall systems and can be installed during or after the adjacent wall panels have been assembled. The split clamping frame can be adjusted to fit all relevant wall systems thicknesses. Depending on customer specifications various frame and coaming types as well as additional fixtures can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the B-15M accommodation door and all components have been tested and approved according to international standards.

Accommodation doors

Type B-15M Type I & Type II

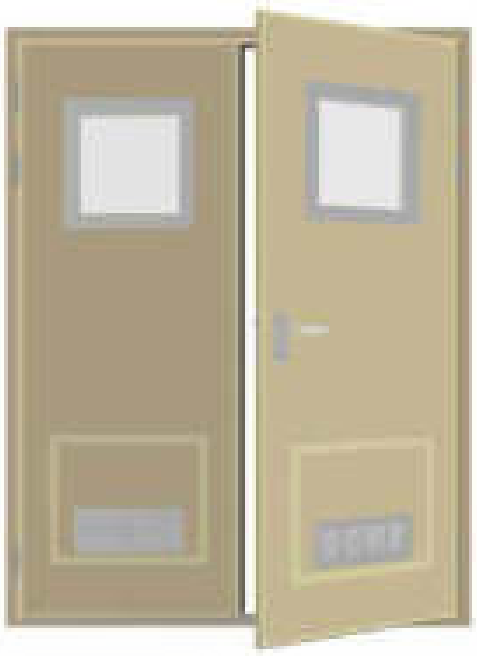


Technical data	B-15M Type I	B-15M Type II
Covering layer (visible side)	Steel	Steel
Covering layer (back side)	Steel	Steel
Fire classification	B-15	B-15
Sound reduction	up to 36 dB *	up to 40 dB *
Thickness	40 mm	40 mm
Element width - Clear opening	up to 1,150 mm **	up to 850 mm
Element height - Clear opening	up to 2,200 mm **	up to 2,009 mm
Weight	~ 59 kg ***	~ 67 kg ***
Equipment - Ventilation - Kick-out panel - Window	up to 500 cm^2 up to 600 x 600 mm up to 400 x 400 mm or Ø 400 mm	--- --- ---
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG

* please contact us for further information
** tested and certified according to MSC.1/Circ.1319 allowing additionally +15% in width & height (surface area +10%)
*** based upon clear opening of 800 x 2,000 mm, without lock, escutcheons, handles and additional equipment

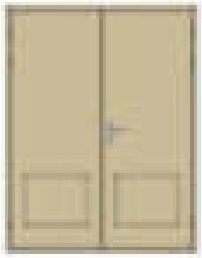
Accommodation doors

Type B-15M double



Product range

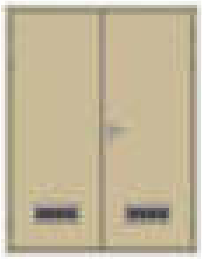
B-15M double
(single)



B-15M double
(Kick-out)

B-15M double
(Over panel)

B-15M double
(Window)



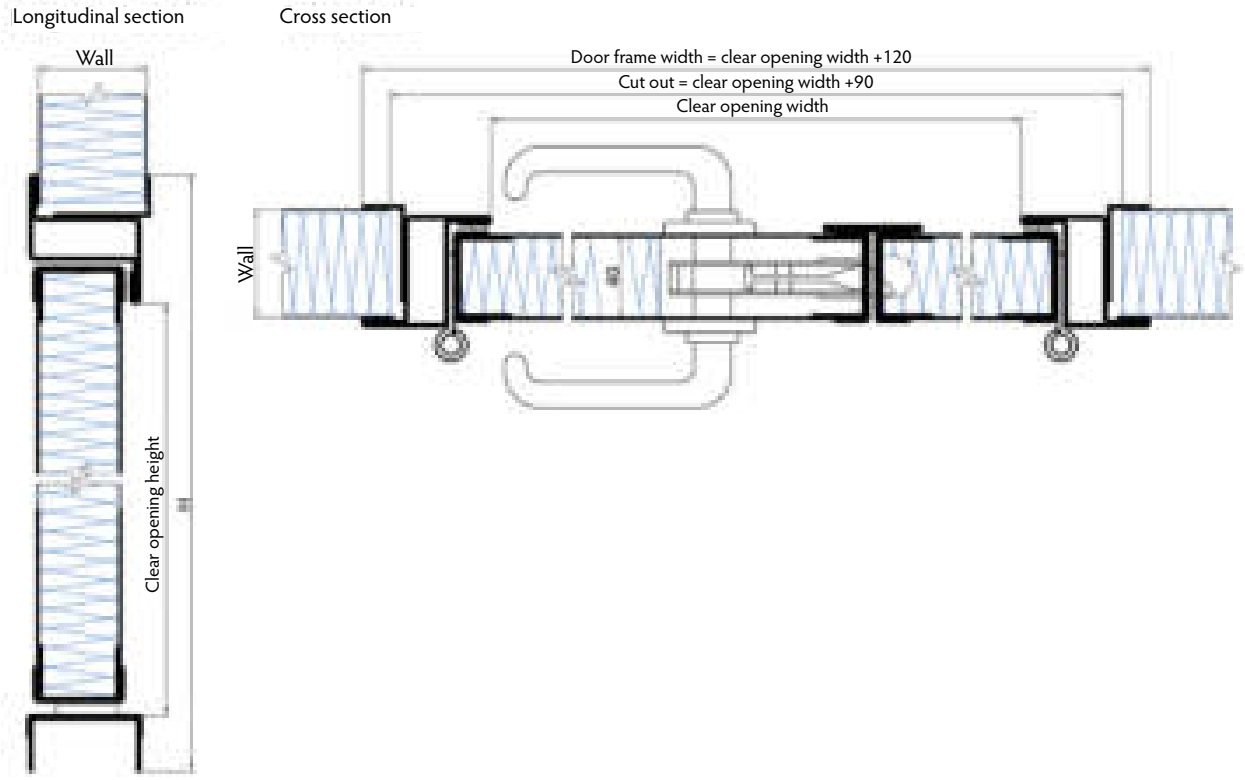
B-15M double
(Ventilation)

The B-15M double leaf accommodation door is used in B-15 fire rated wall systems and can be installed during or after the adjacent wall panels have been assembled. The split clamping frame can be adjusted to fit all relevant wall systems thicknesses. Depending on customer specifications various frame and coaming types as well as additional fixtures can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the B-15M double leaf accommodation door and all components have been tested and approved according to international standards.

Accommodation doors

Type B-15M double

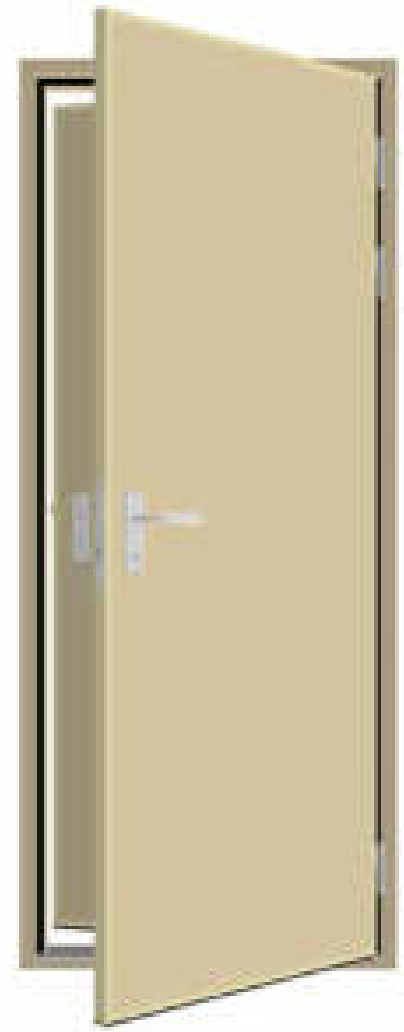


Technical data	B-15M double
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Sound reduction	---
Thickness	40 mm
Element width - Clear opening	up to 2,200 mm
Element height - Clear opening	up to 2,200 mm
Weight	~ 105 kg *
Equipment - Ventilation - Kick-out panel - Window	up to 500 cm^2 (each leaf) up to 600 x 600 mm (each leaf) up to 400 x 400 mm (each leaf) or Ø 400 mm
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

* based upon clear opening of 1,600 x 2,000 mm respectively, without lock, escutcheons, handles and additional equipment

Accommodation doors

Type B-15M Connection

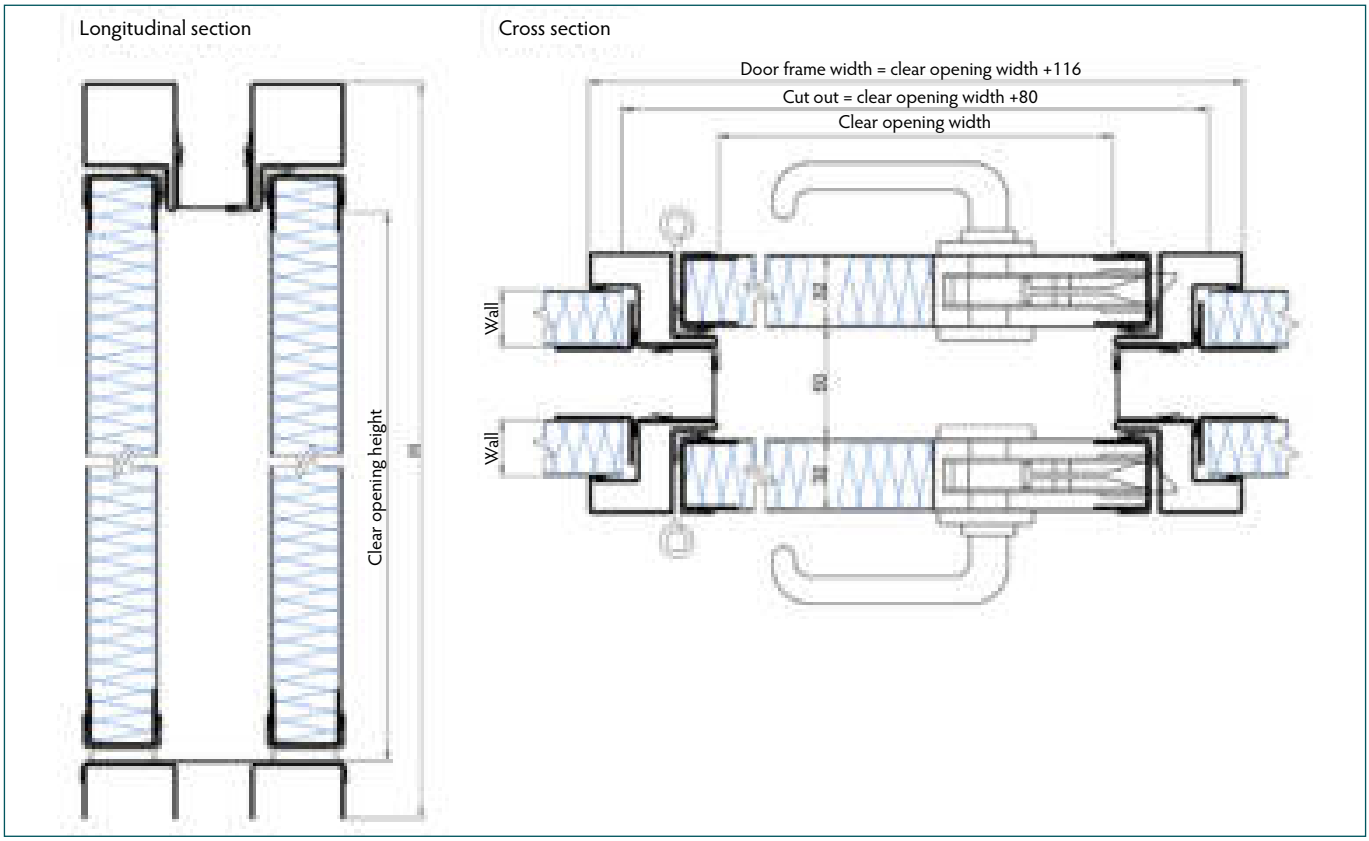


The B-15M Connection door is used to combine two separate compartments and create a larger accommodation space. Each door leaf is deli-vered with a separate frame which can be adjusted to fit all relevant wall systems thicknesses. The two door leaf frames are afterwards connected to each by using an adaptable connector.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the B-15M Connection door and all components have been tested and approved according to international standards.

Accommodation doors

Type B-15M Connection



Technical data	B-15M Connection
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Sound reduction	42 dB
Thickness	32 + 50 + 32 mm
Element width - Clear opening	up to 900 mm
Element height - Clear opening	up to 2,000 mm
Weight	~ 94 kg *
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

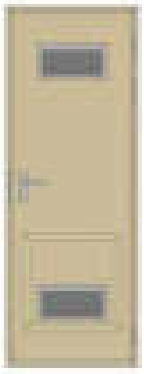
* based upon clear opening of 800 x 2,000 mm, without lock, escutcheons and handles

Accommodation doors

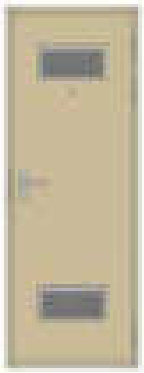
Type B-15K & B-15K50

Product range

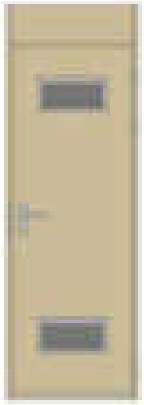
B-15K & B-15K50
(single)



B-15K & B-15K50
(Kick-out)



B-15K & B-15K50
(Spy eye)



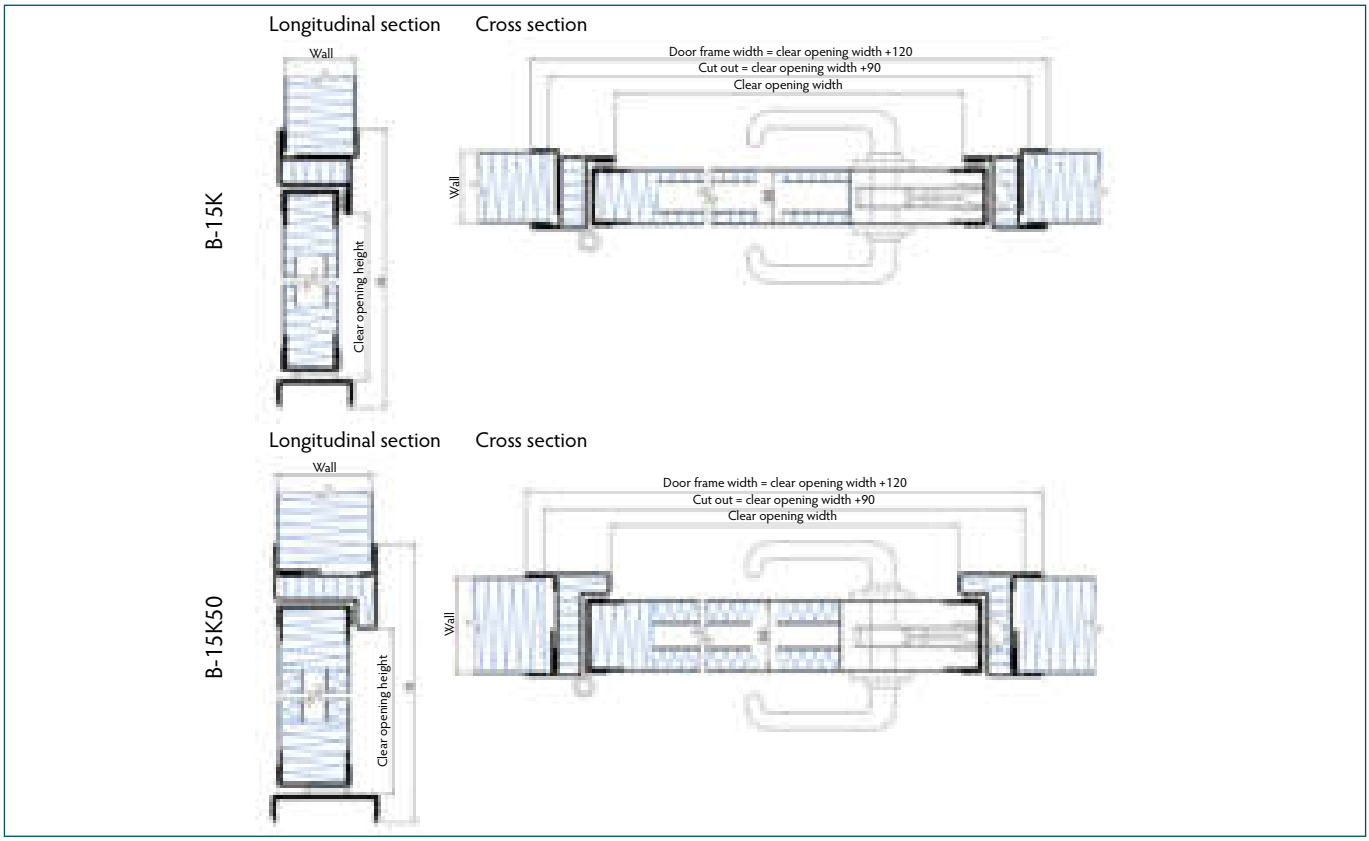
B-15K & B-15K50
(over panel)

The B-15K and B-15K50 accommodation doors are used in B-15 fire rated wall systems and can be installed during or after the adjacent wall panels have been assembled. The doors come with a staggered ventilation as standard equipment. The split clamping frame can be adjusted to fit all relevant wall systems thicknesses. Depending on customer specifications various frame and coaming types as well as additional fixtures can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the B-15K and B-15K50 accommodation doors and all components have been tested and approved according to international standards.

Accommodation doors

Type B-15K & B-15K50



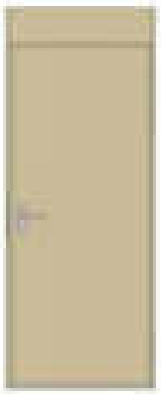
Technical data	B-15K	B-15K50
Covering layer (visible side)	Steel	Steel
Covering layer (back side)	Steel	Steel
Fire classification	B-15	B-15
Sound reduction	up to 41 dB*	up to 34 dB*
Thickness	39 mm	50 mm
Element width - Clear opening	up to 1,000 mm **	up to 650 mm
Element height - Clear opening	up to 2,100 mm **	up to 1,990 mm
Weight	~ 69 kg ***	~ 68 kg ***
Equipment - Ventilation	up to 150 cm^2 - staggered	up to 200 cm^2 - staggered
- Kick-out panel	up to 600 x 600 mm	up to 500 x 500 mm
- Spy eye	✓	✓
- Internal cable duct	---	✓
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG

* please contact us for further information
** tested and certified according to MSC.1/Circ.1319 allowing additionally +15% in width & height (surface area +10%)
*** based upon clear opening of 650 x 1,950 mm and wall height of 2,200 mm, without lock, escutcheons, handles and additional equipment

Accommodation doors

Type B-15MK & B-15MK2

Product range



B-15MK & B-15MK2
(single)

B-15MK & B-15MK2
(Kick-out)

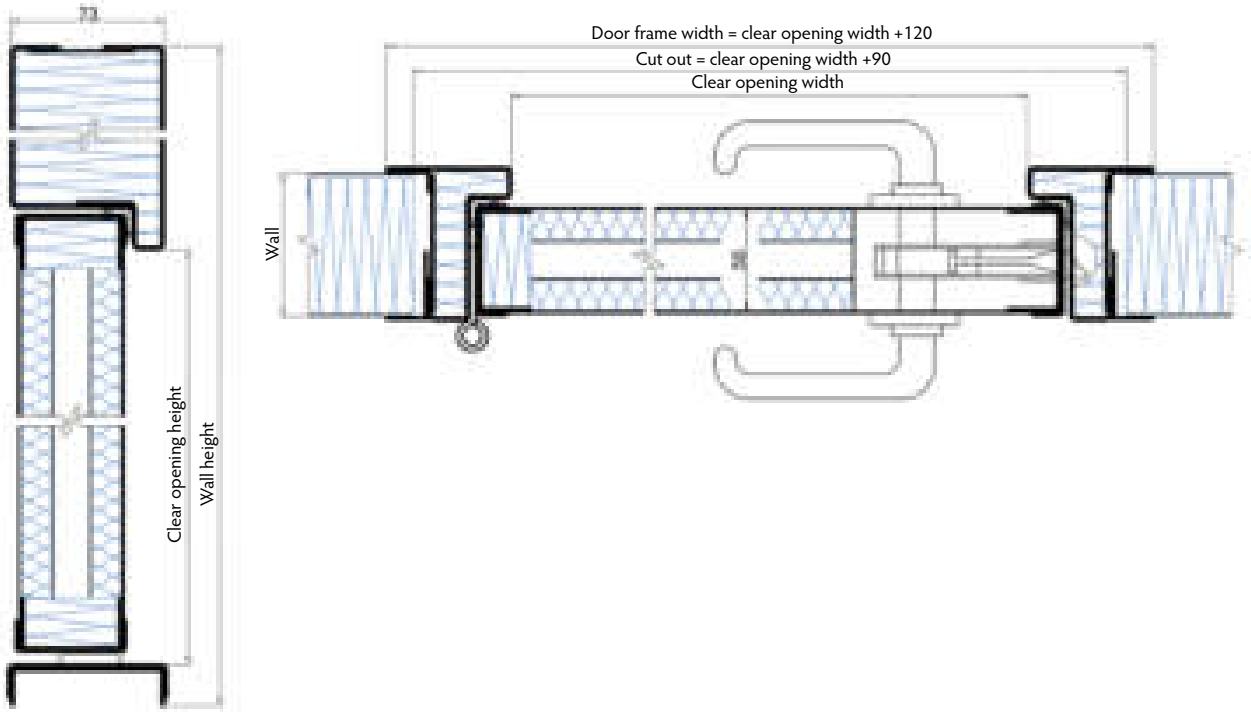
B-15MK2
(Spy eye)

The B-15MK and B-15MK2 accommodation doors are used in B-15 fire rated wall systems and can be installed during or after the adjacent wall panels have been assembled. The doors have been designed for high sound reduction requirements of up to 42 dB. The split clamping frame can be adjusted to fit all relevant wall systems thicknesses. Depending on customer specifications additional fixtures can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the B-15MK and B-15MK2 accommodation doors and all components have been tested and approved according to international standards.

Accommodation doors

Type B-15MK & B-15MK2



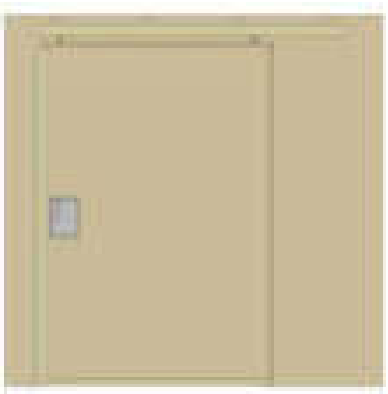
Technical data	B-15MK	B-15MK2
Covering layer (visible side)	Steel	Steel
Covering layer (back side)	Steel	Steel
Fire classification	B-15	B-15
Sound reduction	up to 40 dB*	up to 42 dB*
Thickness	50 mm	50 mm
Element width - Clear opening	up to 898 mm **	up to 900 mm
Element height - Clear opening	up to 2,097 mm **	up to 2,100 mm
Weight	~ 75 kg ***	~ 101 kg ***
Equipment - Kick-out panel	---	up to 600 x 800 mm
- Spy eye	---	✓
- Internal cable duct	---	✓
Coating	PVC foil varnish coated (others on request)	PVC foil varnish coated (others on request)
Certification	MED, USCG	MED, USCG

* please contact us for further information
** tested and certified according to MSC.1/Circ.1319 allowing additionally +15% in width & height (surface area +10%)
*** based upon clear opening of 800 x 2,000 mm and wall height of 2,200 mm, without lock, escutcheons, handles and additional equipment

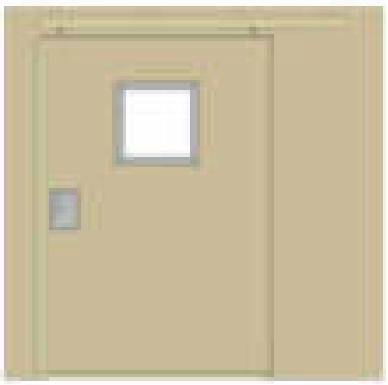
Accommodation doors

Type B-15 Sliding

Product range



B-15 Sliding
(single)



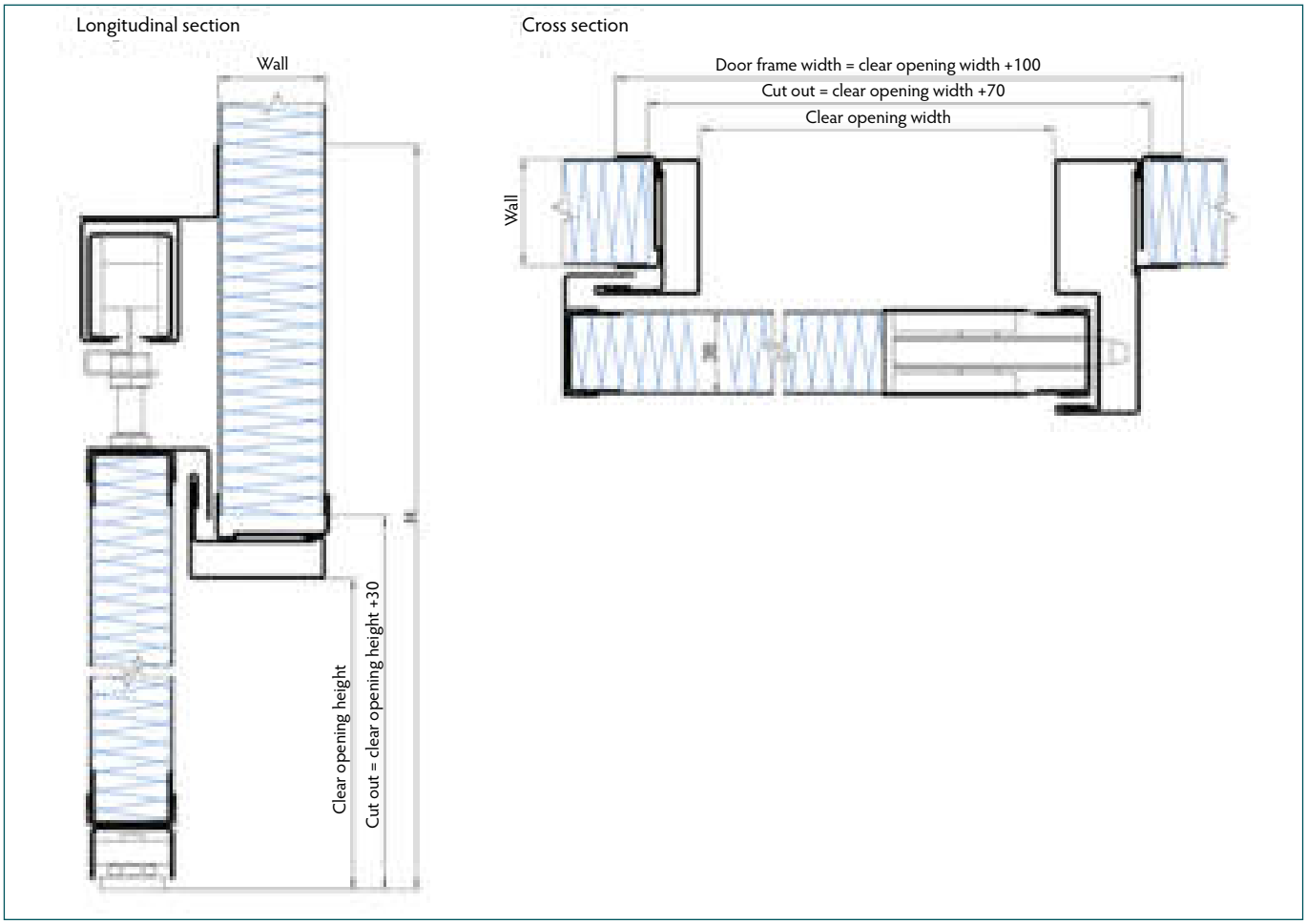
B-15 Sliding
(Window)

The B-15 Sliding door is used in B-15 fire rated wall systems and can be installed after the adjacent wall panels have been assembled. The split clamping frame can be adjusted to fit all relevant wall systems thicknesses. Depending on customer specifications the door can be equipped with a window.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the B-15 Sliding door and all components have been tested and approved according to international standards.

Accommodation doors

Type B-15 Sliding

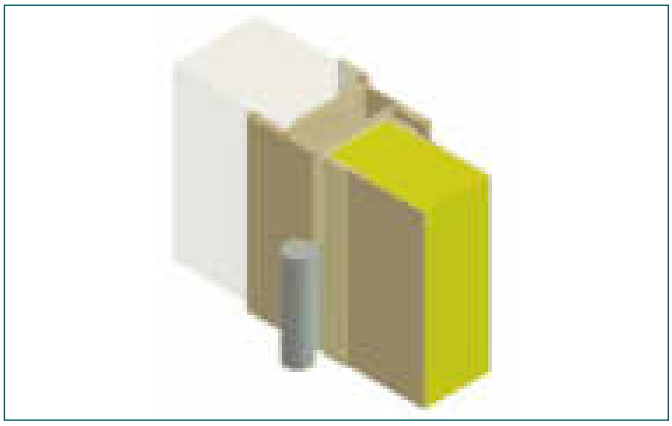


Technical data	B-15M Sliding
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	B-15
Sound reduction	---
Thickness	39 mm
Element width - Clear opening	up to 2,400 mm
Element height - Clear opening	up to 2,300 mm
Weight	~ 95 kg *
Equipment - Window	up to 400 x 400 mm or Ø 400 mm
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

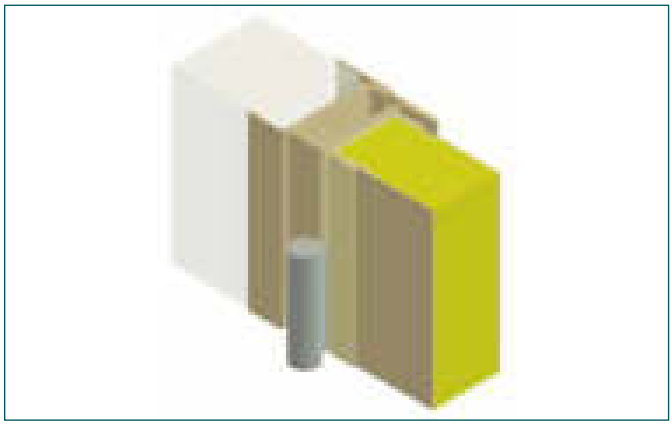
* based upon clear opening of 1,300 x 2,000 mm, without lock, escutcheons, handles, automatic closing mechanism and additional fixtures

Accommodation doors

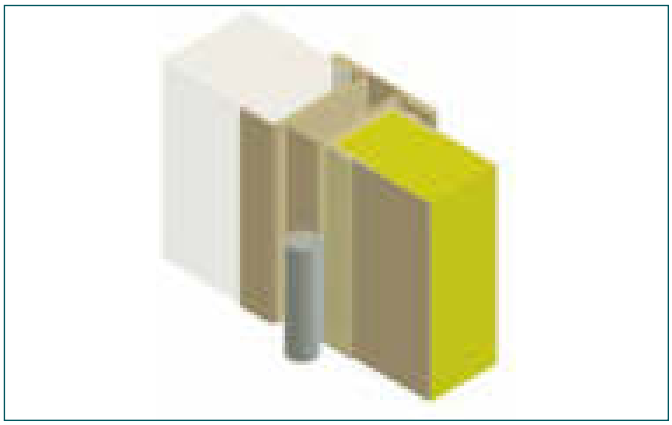
Frame Types for B doors



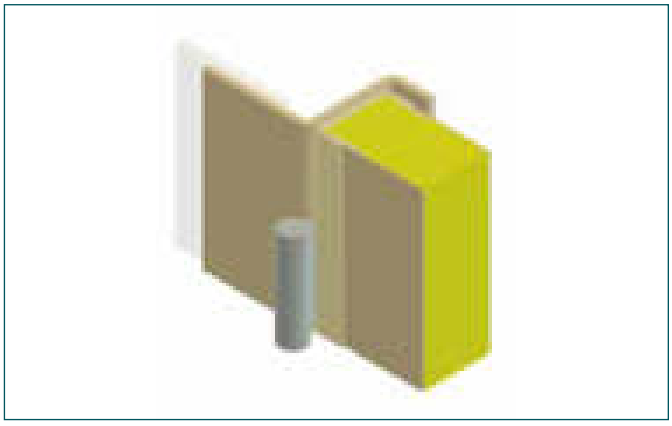
Z-Type



Box-Type



T-Type

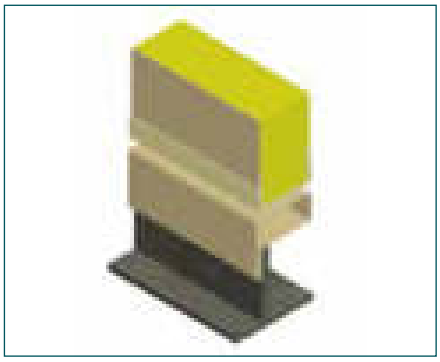


Steel frame

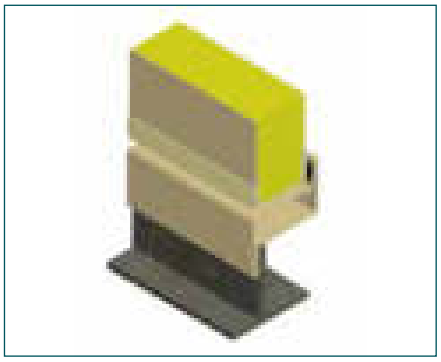
Accommodation doors

Sill Types for B doors

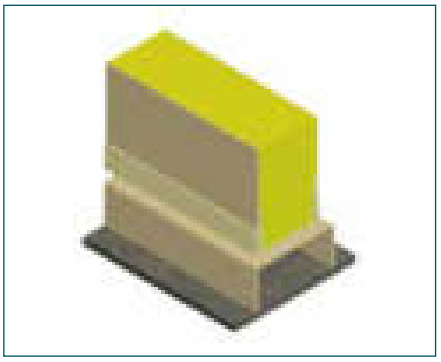
Following types can be covered with stainless steel step rail.



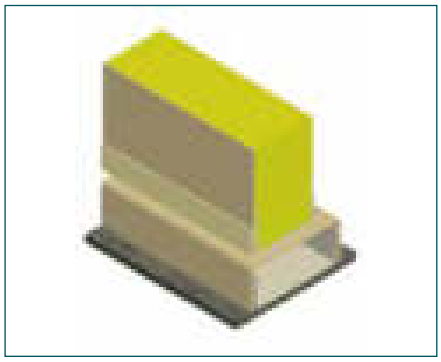
Type 1



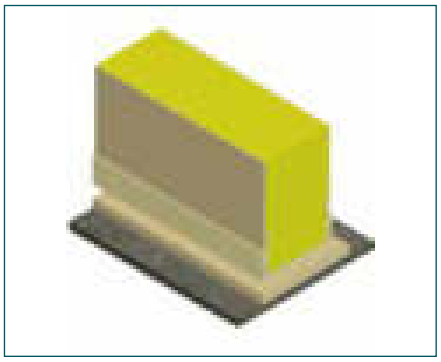
Type 2



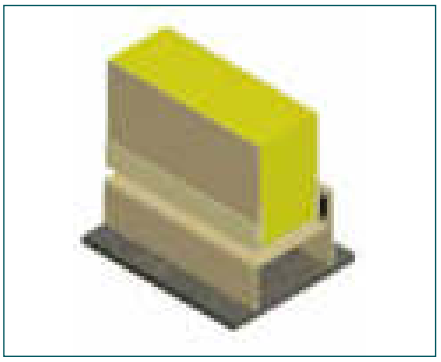
Type 3*



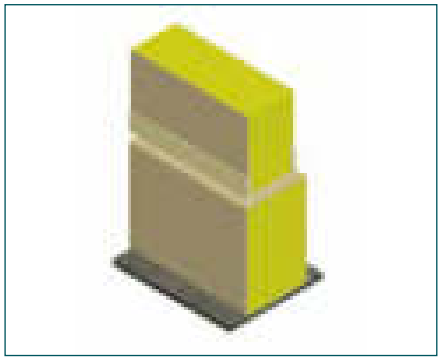
Type 4**



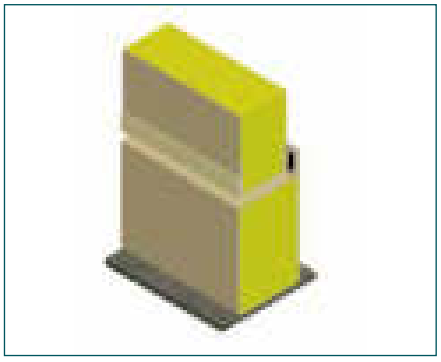
Type 5*



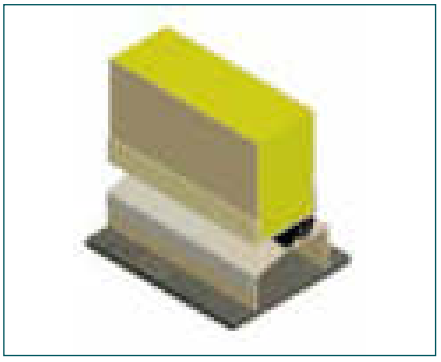
Type 7



Type 8



Type 9



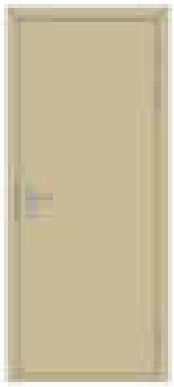
Type 11

* door leafs can optionally be equipped with bottom gasket
** bottom profile of wall running continuously under door sill

Accommodation doors

Type A-15 single

Product range



A-15
(single)

A-15
(Hose port)

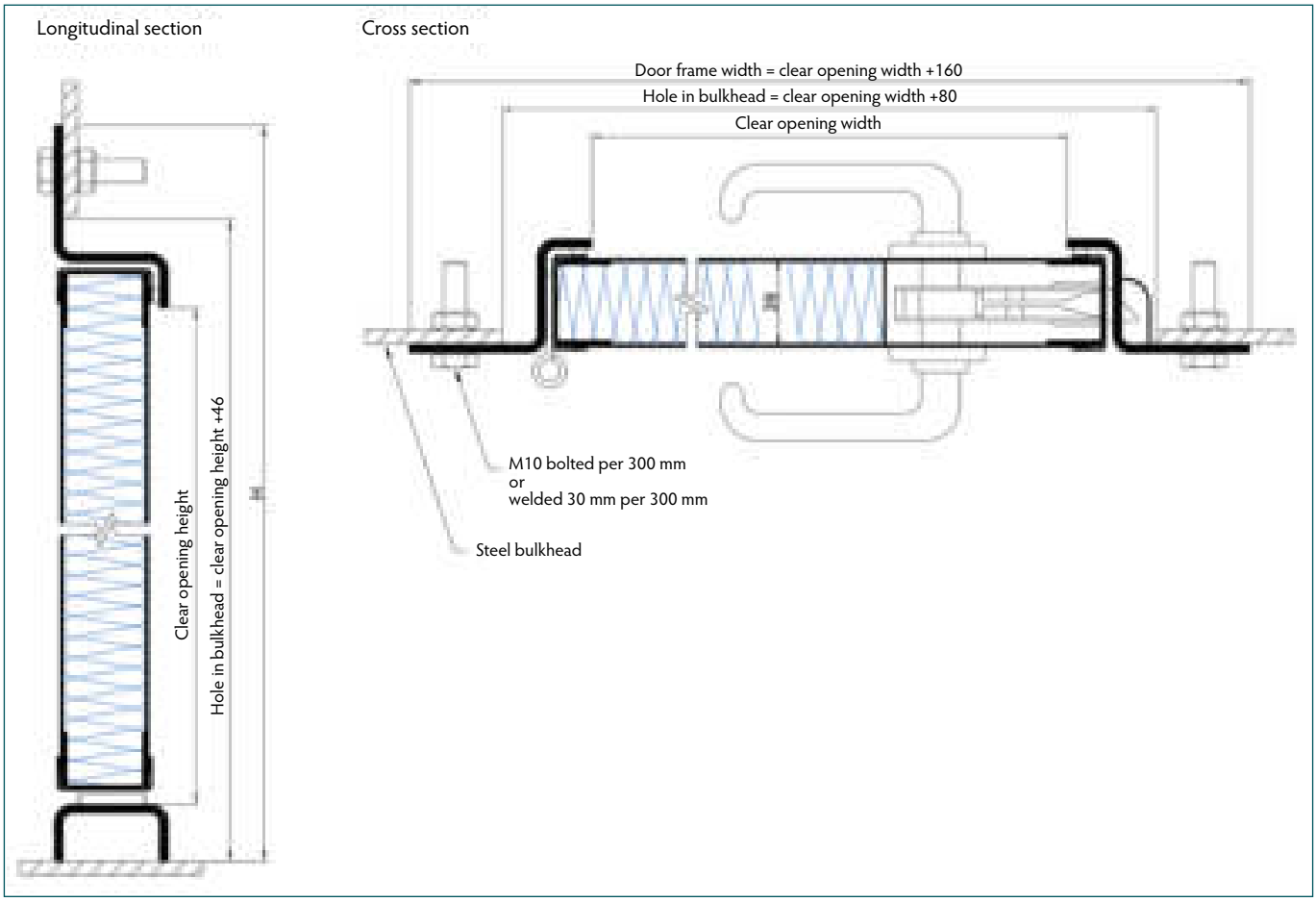
A-15
(Window)

The A-15 single accommodation door is used in A-15 fire rated steel bulkheads and can be installed by bolting or welding. Depending on customer specifications various frame and coaming types as well as additional fixtures can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the A-15 single accommodation door and all components have been tested and approved according to international standards.

Accommodation doors

Type A-15 single



Technical data	A-15 single
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	A-15
Sound reduction	up to 33 dB*
Thickness	39 mm
Element width - Clear opening	up to 1,200 mm **
Element height - Clear opening	up to 2,200 mm **
Weight	~ 87 kg ***
Equipment - Hose port - Window	up to 150 x 150 mm up to 400 x 400 mm or Ø 400 mm
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

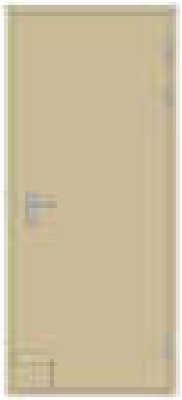
* please contact us for further information
** tested and certified according to MSC.1/Circ.1319 allowing additionally +15% in width & height (surface area +10%)
*** based upon clear opening of 800 x 2,000 mm, without lock, escutcheons and handles

Accommodation doors

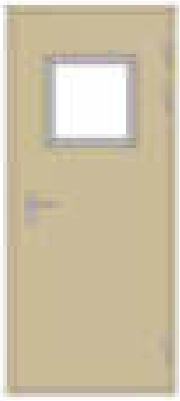
Type A-60 single

Product range

A-60
(single)



A-60
(Hose port)



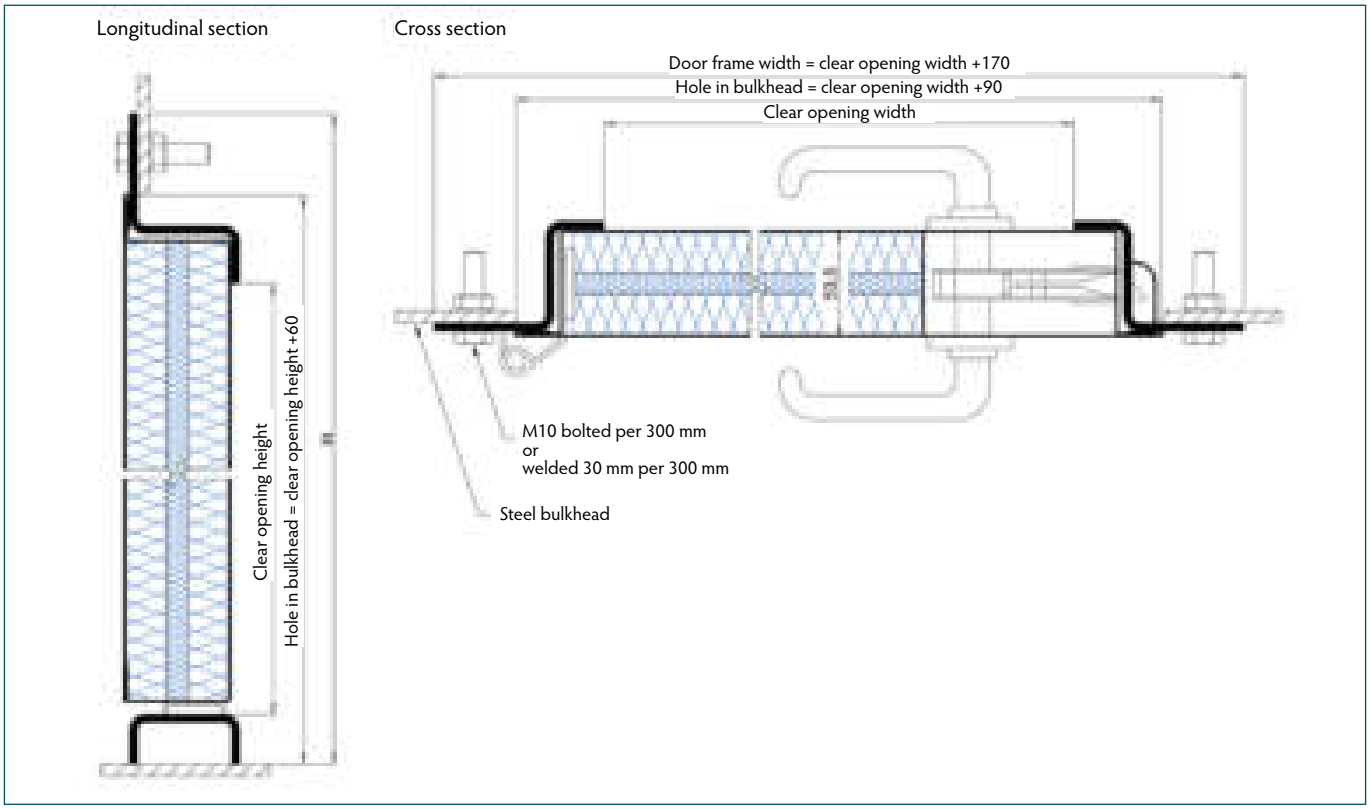
A-60
(Window)

The A-60 single accommodation door is used in A-60 fire rated steel bulkheads and can be installed by bolting or welding. Depending on customer specifications various frame and coaming types, additional fixtures and gas tight option can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the A-60 single accommodation door and all components have been tested and approved according to international standards.

Accommodation doors

Type A-60 single

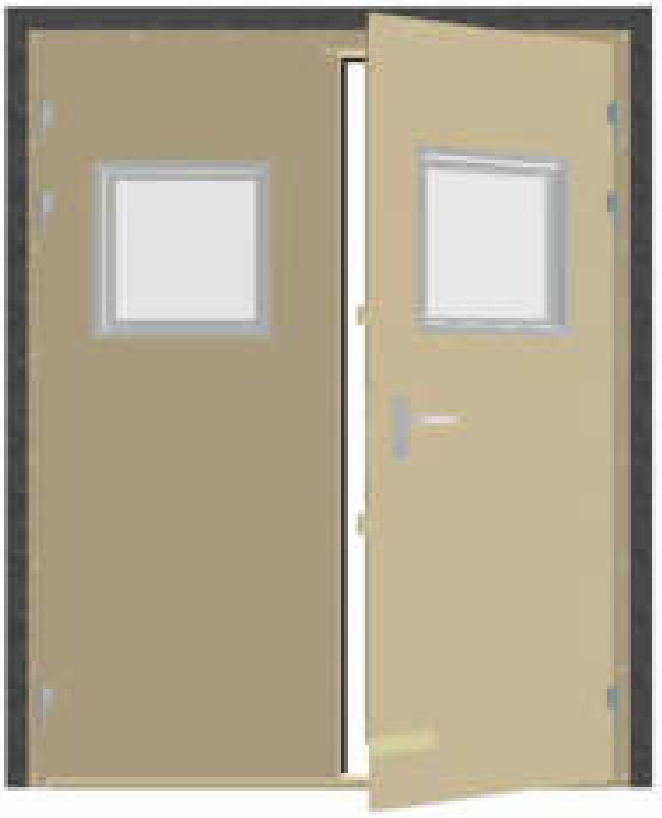


Technical data	A-60 single
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	A-60
Sound reduction	up to 34 dB*
Thickness	53.5 mm
Element width - Clear opening	up to 1,250 mm **
Element height - Clear opening	up to 2,200 mm **
Weight	~ 108 kg ***
Equipment - Hose port - Window	up to 150 x 150 mm up to 400 x 400 mm or Ø 400 mm
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

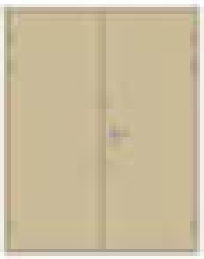
* please contact us for further information
** tested and certified according to MSC.1/Circ.1319 allowing additionally +15% in width & height (surface area +10%)
*** based upon clear opening of 800 x 2,000 mm, without lock, escutcheons, handles and additional equipment

Accommodation doors

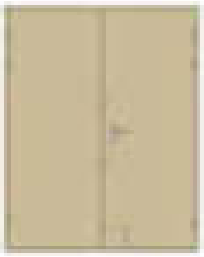
Type A-60 double



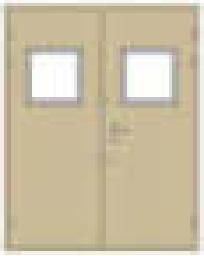
Product range



A-60 double
(single)



A-60 double
(Hose port)



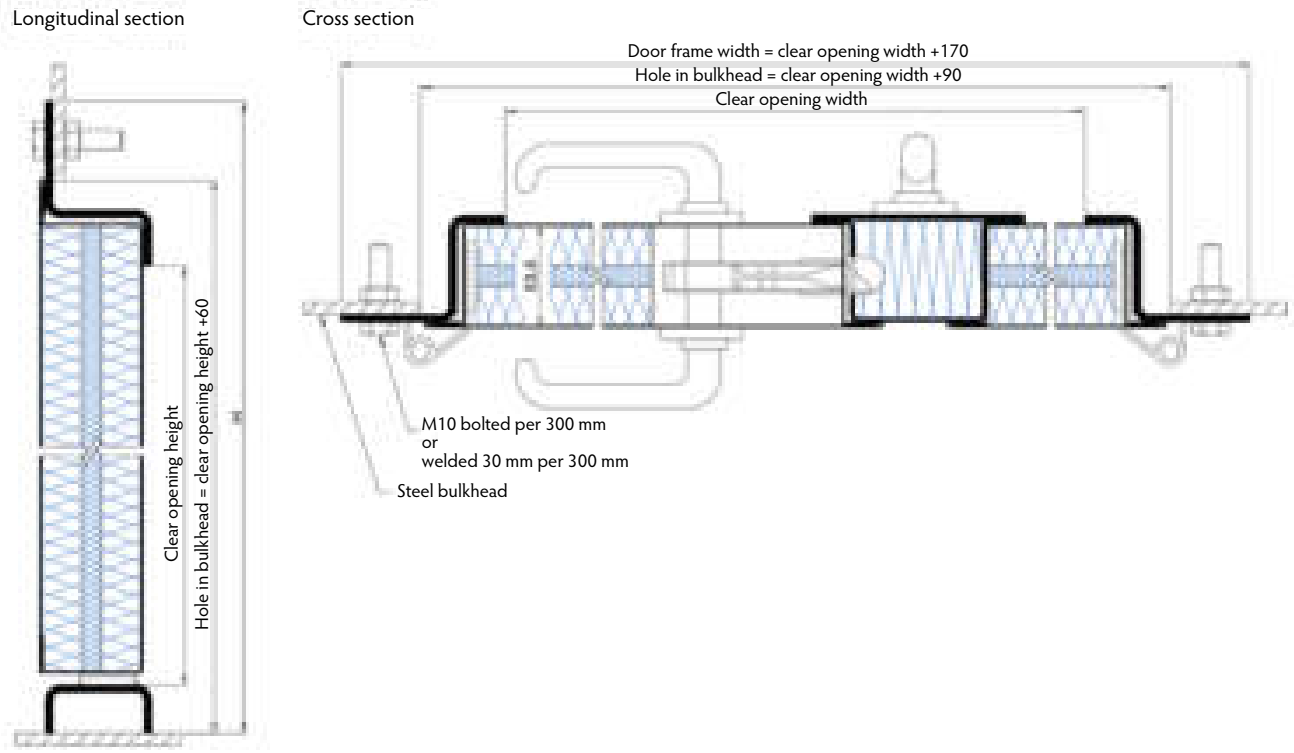
A-60 double
(Window)

The A-60 double leaf accommodation door is used in A-60 fire rated steel bulkheads and can be installed by bolting or welding. Depending on customer specifications various frame and coaming types, additional fixtures and gas tight option can be chosen.

A large variety of surface finishes are available. All of them fitted with a removable protection foil to prevent any damage from occurring during installation. The design of the A-60 double leaf accommodation door and all components have been tested and approved according to international standards.

Accommodation doors

Type A-60 double

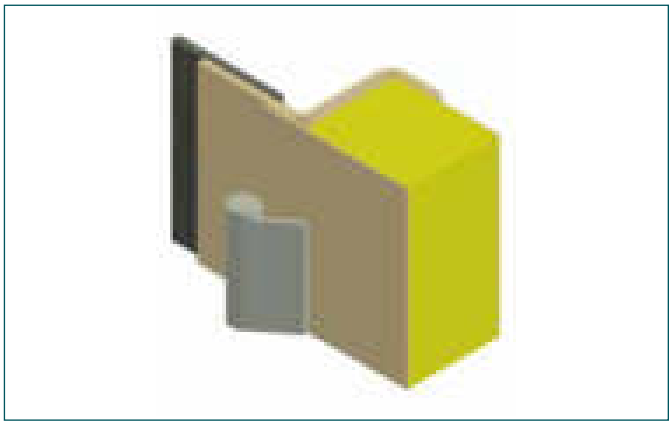


Technical data	A-60 double
Covering layer (visible side)	Steel
Covering layer (back side)	Steel
Fire classification	A-60
Sound reduction	---
Thickness	53.5 mm
Element width - Clear opening	up to 2,500 mm
Element height - Clear opening	up to 2,200 mm
Weight	~ 201 kg *
Equipment - Hose port - Window	up to 150 x 150 mm up to 400 x 400 mm or Ø 400 mm
Coating	PVC foil varnish coated (others on request)
Certification	MED, USCG

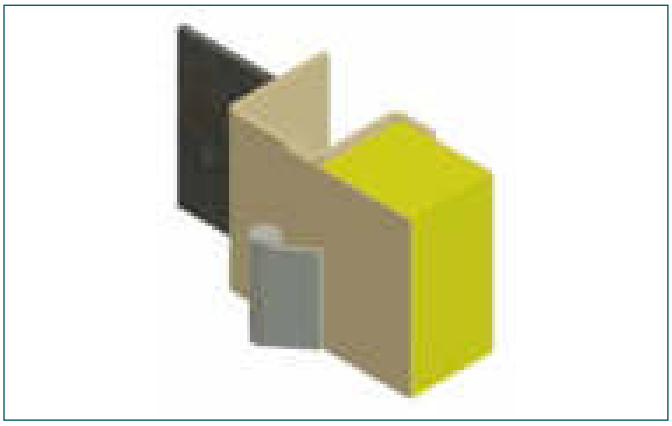
* based upon clear opening of 1,600 x 2,000 mm, without lock, escutcheons, handles and additional equipment

Accommodation doors

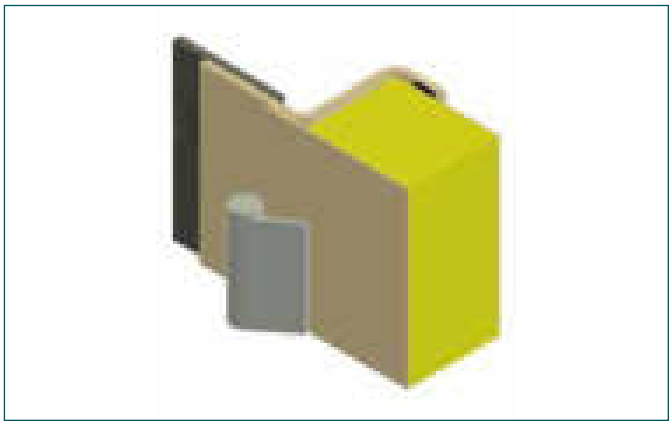
Frame Types for A doors



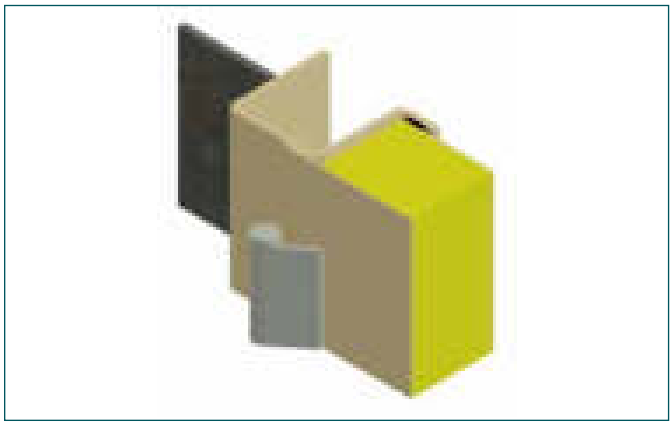
Type 1Z



Type RINA



Type 1GT



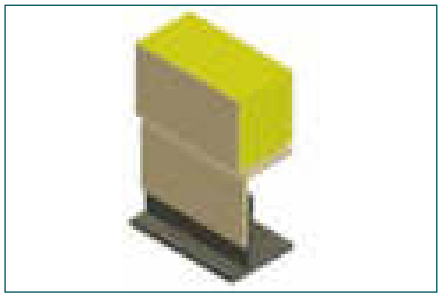
Type RINA GT

Type 1GT (MSA)

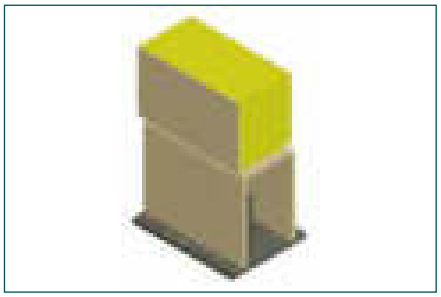
Accommodation doors

Sill Types for A doors

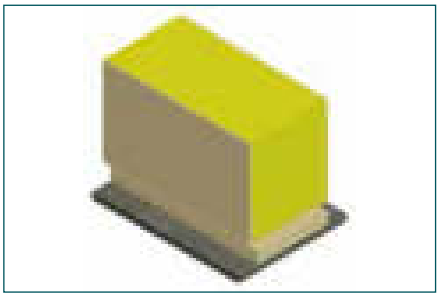
Following types can be covered with stainless steel step rail.



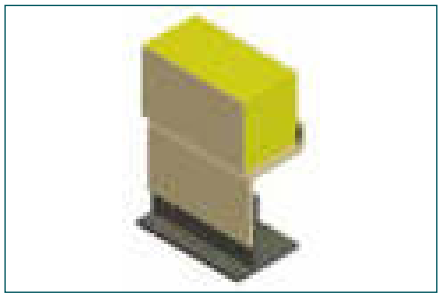
Type 1*



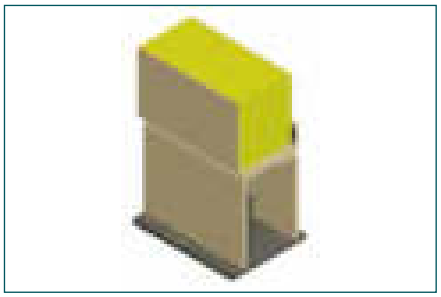
Type 2*



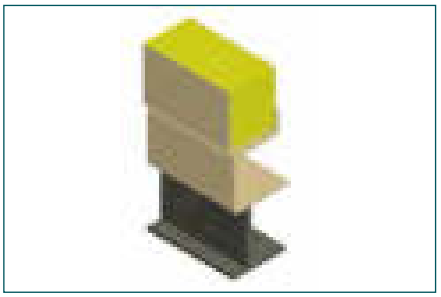
Type 3*



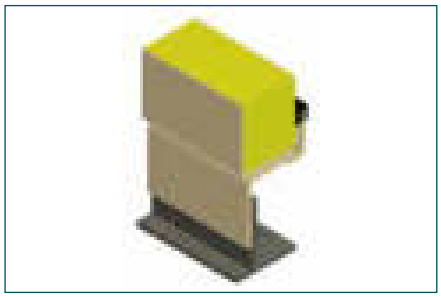
Type 1GT



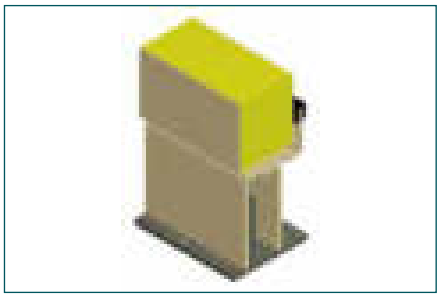
Type 2GT



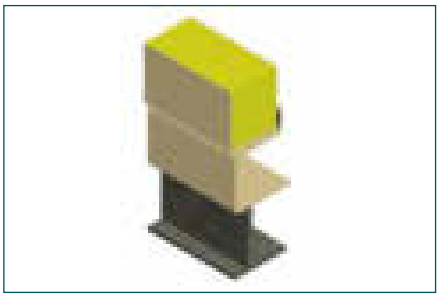
Type RINA



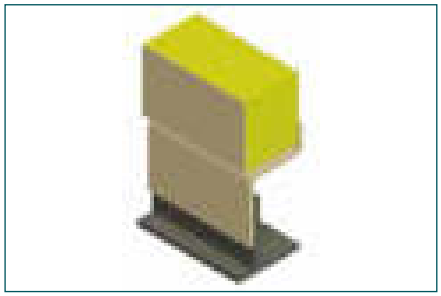
Type 1 GT (MSA)



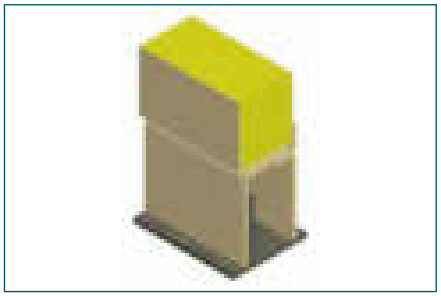
Type 2GT (MSA)



Type RINA GT



Type 1Z



Type 2Z

* door leafs can optionally be equipped with bottom gasket

Rheinhold & Mahla

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Window boxes

Window boxes

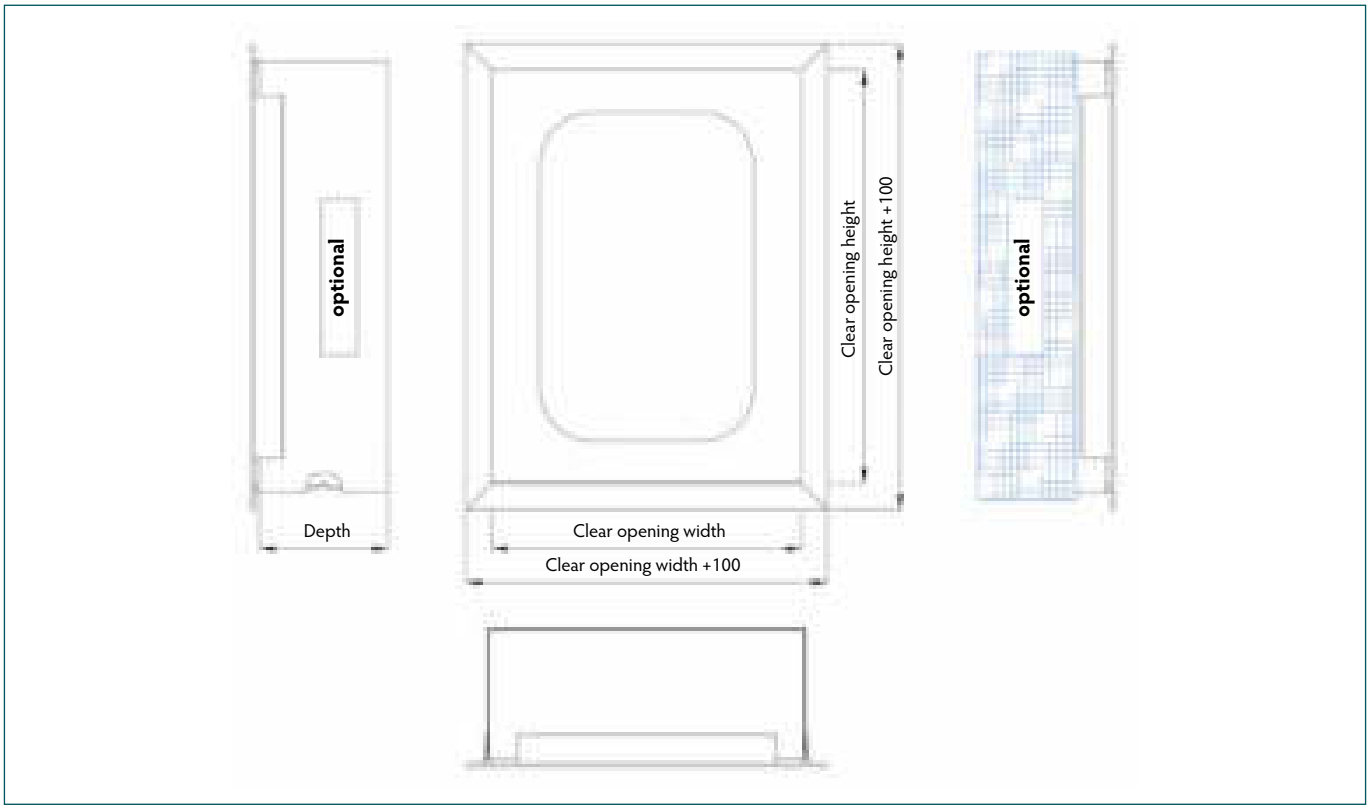
Type B-0

The window box provides the connection between the hull and the accommodation system and consists of two elements, the basic body with a prefabricated window cut-out and the sliding frame, that is used to compensate for tolerances. According to customer specifications the basic body can optionally be produced insulation-padded or with noise suppression plates on the outside and a condensation trap on the bottom line.

A large variety of surface finishes are available. The design of the window box type B-0 has been tested and approved according to international standards.

Window boxes

Type B-0

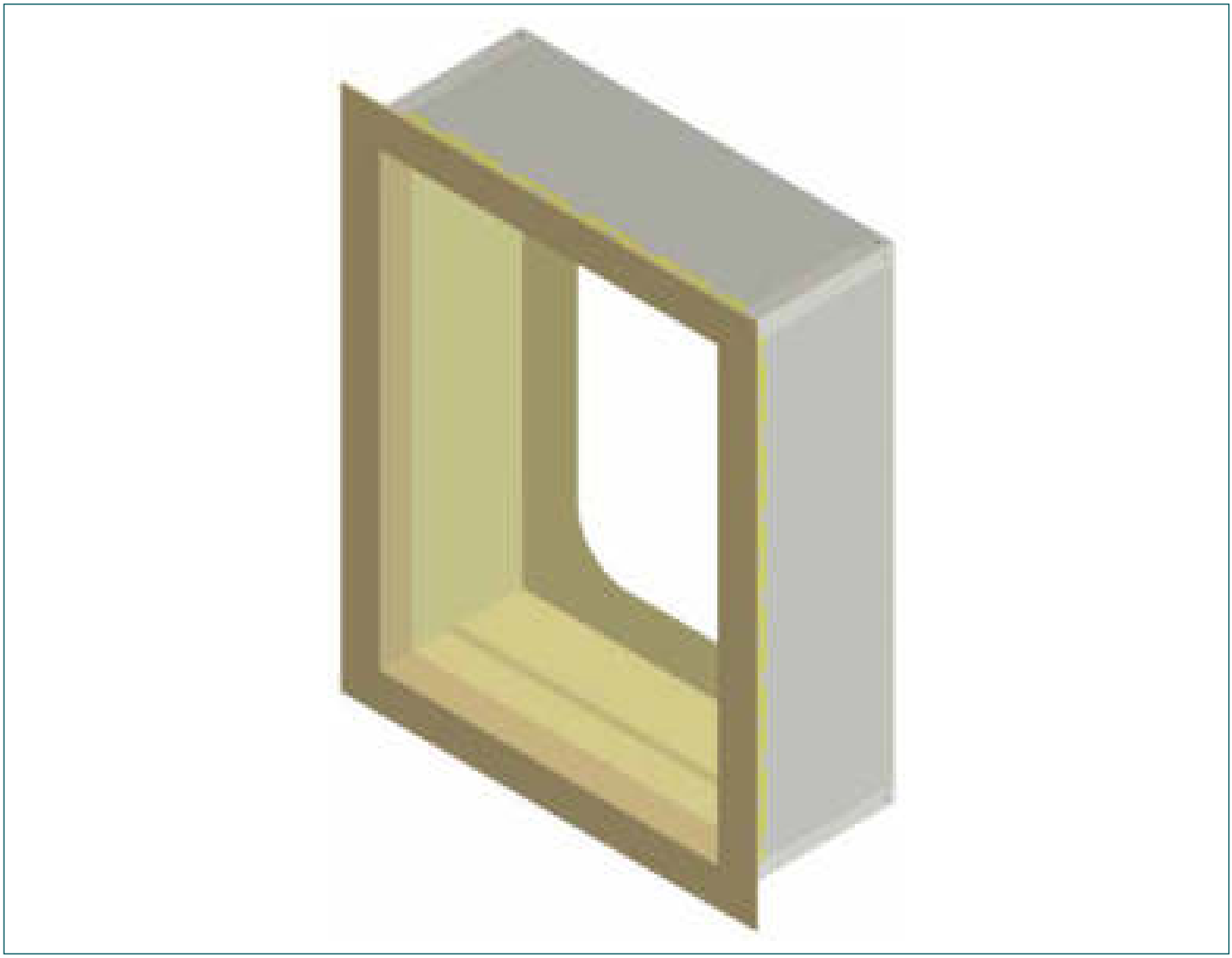


Technical data	Window box type B-0
Material - Basic body - Sliding frame	Steel Steel
Fire classification	B-0
Element width	Clear opening up to 1,590 mm (sliding frame)
Element height	Clear opening up to 1,464 mm (sliding frame)
Element depth	According to customer specification
Weight - Window box	14.2 kg *
Weight - Insulation - Noise suppression plates	+2.7 kg * +0.3 kg *
Coating	Varnish coated (others on request)
Certification	MED, USCG

* based upon clear opening dimensions of width = 600 mm, height = 800 mm and depth = 250 mm

Window boxes

Type B-15

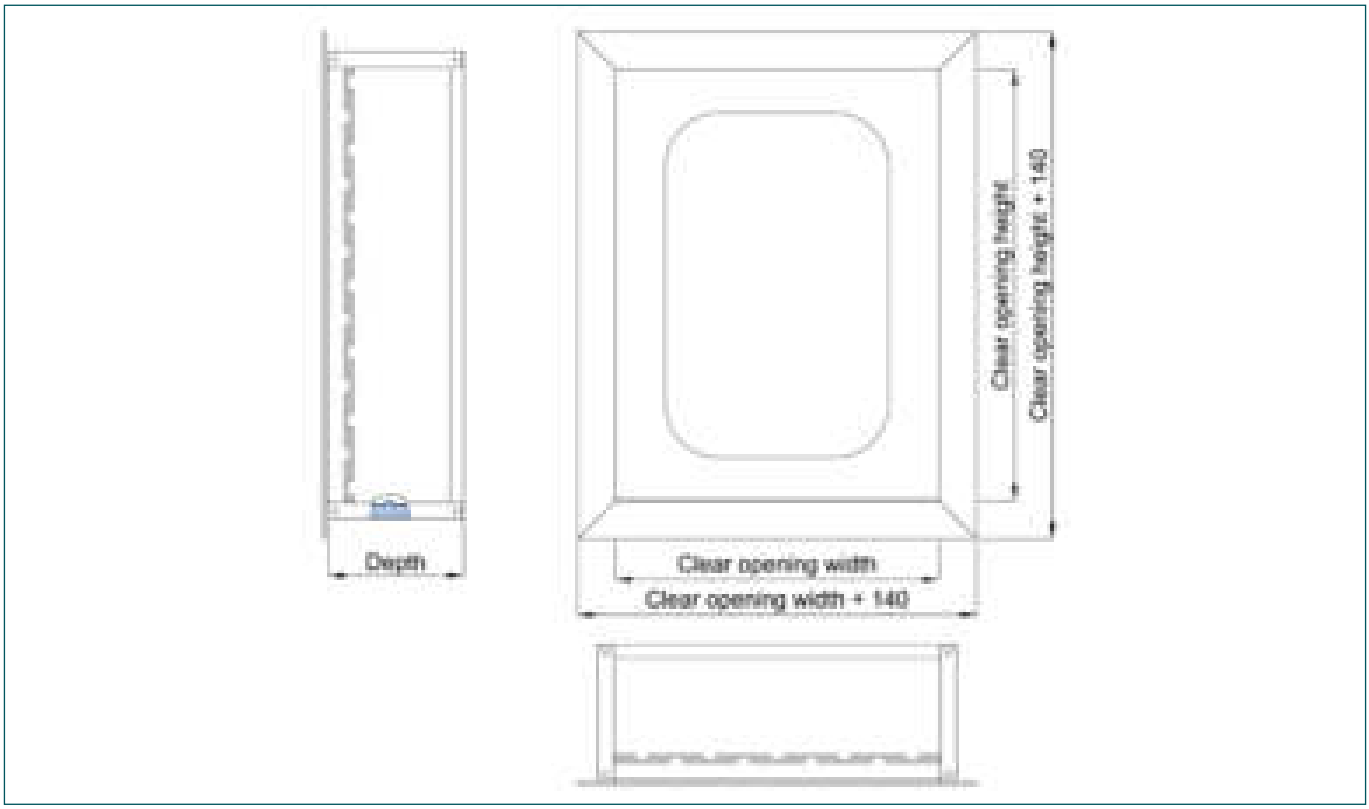


The window box provides the connection between the hull and the accommodation system and consists of two elements - the basic body with a prefabricated window cut-out and the sliding frame that is used to compensate for tolerances. The basic body can optionally be produced with a condensation trap on the bottom line and is circumferentially insulated as well as screwed to the surrounding wall elements to secure the B-15 fire rating.

A large variety of surface finishes are available. The design of the window box type B-15 has been tested and approved according to international standards.

Window boxes

Type B-15



Technical data	Window box type B-15
Material - Basic body	Steel + Insulation + Steel
- Sliding frame	Steel
Fire classification	B-15
Element width	Clear opening up to 1,700 mm (sliding frame)
Element height	Clear opening up to 1,450 mm (sliding frame)
Element depth	According to customer specification
Weight	21.5 kg *
Coating	Varnish coated (others on request)
Certification	MED, USCG

* based upon clear opening dimensions of width = 600 mm, height = 800 mm and depth = 250 mm

Rheinhold & Mahla

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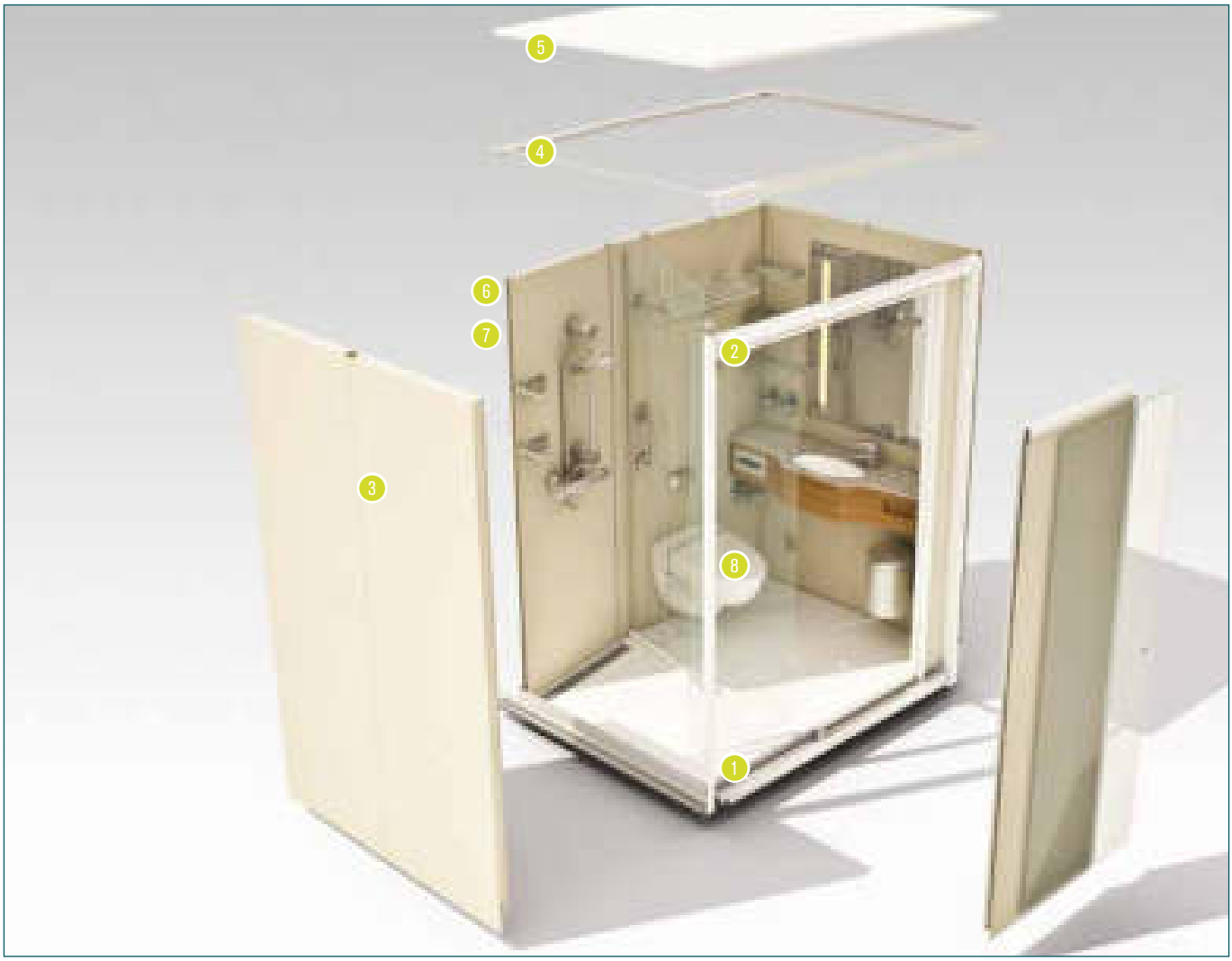
Wet units and wet pods

Wet units

Prefabricated wet units



Wet unit structure

1. Fully welded floor pan with integrated connection for pipes
2. Door frame with connection profile for incorporating the cabin wall system
3. Wall panels bolted together for good stability. The insides of the panels are lined with PVC-coated steel sheets; the outsides of the panels consist of galvanized steel sheets.
4. Corner profile made of galvanized steel to strengthen the wall connection
5. Ceiling panel is 30 mm thick. Cables and cutouts are covered by special insulation on top
6. Exhaust air diffuser
7. Copper or plastic fresh water pipes
8. Vacuum or gravity-fed toilet

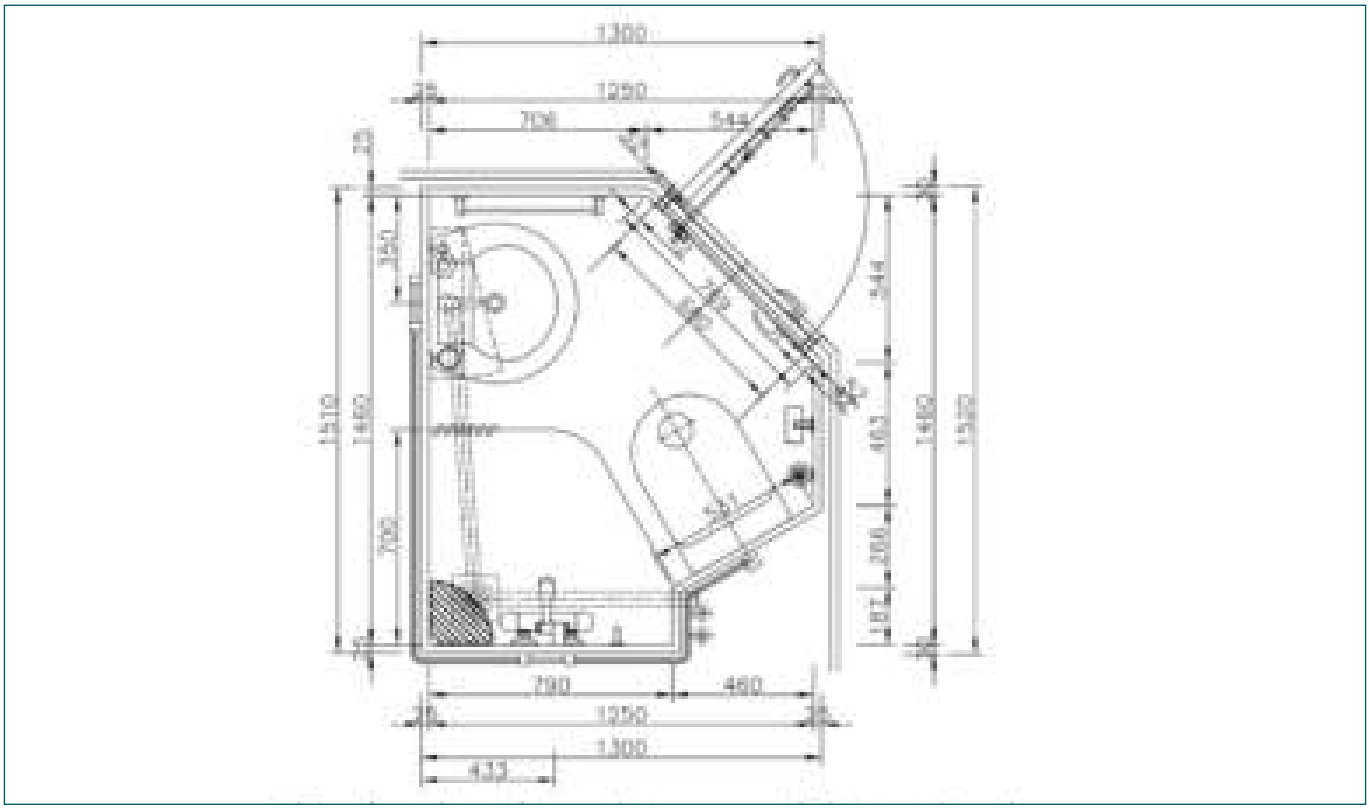
Wet units

Prefabricated wet units

Technical data	
Category	Wet units for passenger and crew cabins on board every type of ships and maritime facilities to meet individual standards
Fire integrity	B-15 construction with high attenuation properties
Floor pan	Stainless steel, aluminum or preserved black steel with Bolidt floor, epoxy covering, PU covering or tile covering
Walls	Sandwich construction with PVC foil covering in various patterns, or steel construction with outside insulation and tiling or synthetic material surfaces from inside, if necessary the panel behind the toilet bowl can be equipped with an inspection hatch for access to the vacuum technology from inside
Doors	Sandwich construction with air gap below door leaf, with WC lock, escutcheons with green/red indicator and door limiter
Ceiling	Sandwich construction with PVC foil covering or lacquered surface
Accessories	Matching washbasin, water mixer for shower and washbasin, toilet of vacuum or gravity type, shower curtain or glass partition, handrails, towel hooks or bars, mirror and tumbler
Electric	Ceiling light, wall lamps or illuminated mirror cabinets ready for connection at the junction box
Plumbing	Stainless steel black water pipes fully welded below floor pan, plastic or copper pipes for fresh water installation
Air-conditioning	Only waste air by exhaust air nozzle in wall or ceiling panel

Wet units

Type Crew cabin layout



The wet unit Type Crew cabin layout is for crew cabins on board of every types of ships and maritime facilities. It consists of a toilet, a shower with a curtain and washbasin. A large variety of equipment is available. The wet units meet all individual needs, are manufactured according to the highest quality standards and comply with the most recent safety regulations.

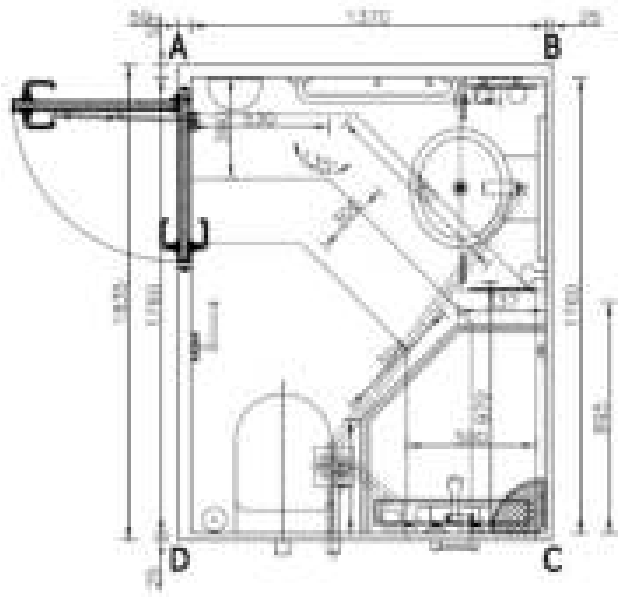
The pipelines, SUS crimping or GF IFIT, for fresh, gray and black water and the wiring for the electrics are already installed when the wet unit is delivered.

Technical data & Equipment	Description
Bottom tray	3 mm steel plate
Wall panel	25 mm
Ceiling panel	30 mm
Door frame	CO: 600 x 1.760, Power coated
Door lock system	Hujiang C-4
Washbasin	W520 x D480
Mirror cabinet with light	W486 x D111 x H590; 22V 15W 60 HZ, IP44; with shaver socket
Towel bar	L-450 mm
Shower mixer	Thermostatic mixing
Scupper	150 x 150
Inlet pipe	Ø 16
Cable	3"1.5
Junction box	XiePu

Further accessories are available, for example:
Floor, door leaf, door holder, washbasin mixer, soap dish, coat hook, toilet brush, shower set, paper holder with ashtray, storm rail, curtain rail, curtain, tissue holder, waste bin, glass cup, vacuum toilet, corner wire basket, ball valve or angle valve.

Wet units

Type Passenger cabin layout



The wet unit Type Passenger cabin layout is for passenger cabins on board of every types of ships and maritime facilities. It consists of a toilet, a shower with a glass wall and door as well as a washbasin. A large variety of equipment is available. The wet units meet all individual needs, are manufactured according to the highest quality standards and comply with the most recent safety regulations.

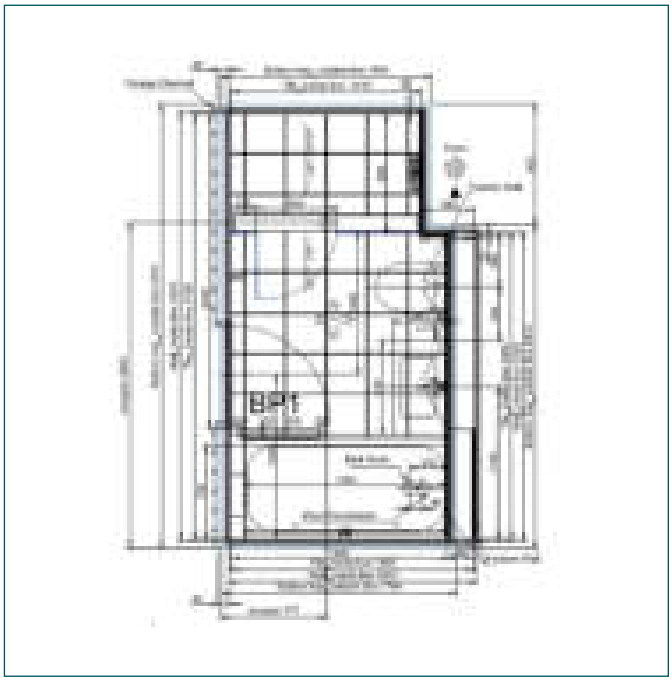
The pipelines, SUS crimping or GF IFIT, for fresh, gray and black water and the wiring for the electrics are already installed when the wet unit is delivered.

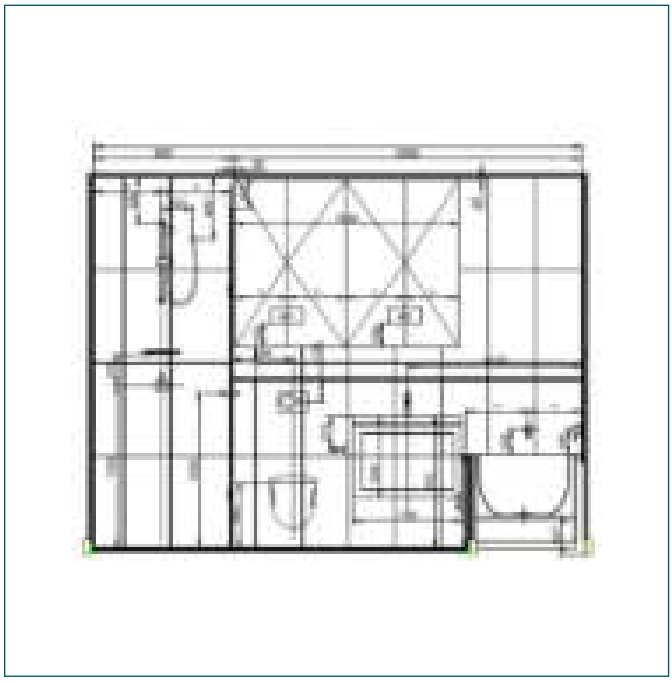
Technical data & Equipment	Description
Bottom tray	3 mm steel plate
Floor	Tiles/PVC/Epoxy
Wall panel	25/50 mm, PVC:Y-1058
Ceiling panel	30 mm, PVC:Y-1058
Door frame	CO: 600 x 1,760, Power coated
Door leaf	PVC:Y-1058
Door lock system	Hujiang C-4
Towel bar	L-600 mm
Shower mixer	Thermostatic mixing
Scupper	150 x 150
Inlet pipe	Ø 16
Cable	3"1.5
Junction box	XiePu

Further accessories are available, for example:
Door holder, washbasin system or mixer, soap dish, mirror cabinet, razor socket, coat hook, toilet brush, shower set, hygienic bag dispenser, curtain, curtain rail, waste bin, tissue holder, glass cup, vacuum toilet, ball valve, angle valve or clear glass shower.

Wet pods

Type Pod layout





The wet pod is for the land base segment and can be installed in all buildings. It consists of a toilet, a shower with a glass wall and door as well as a washbasin. A large variety of equipment and fittings is available. The wet units meet all individual needs, are manufactured according to the highest quality standards and comply with the most recent safety regulations.

The pipelines, SUS crimping or GF IFIT, for fresh, gray and black water and the wiring for the electrics are already installed when the wet unit is delivered.

Technical data & Equipment	Description
Bottom tray	3 mm steel plate
Floor	Tiles/PVC/Epoxy
Wall panel	25/50 mm, PVC:Y-1058
Ceiling panel	30 mm, PVC:Y-1058
Door frame	CO: 600 x 1,760, Power coated
Door leaf	PVC:Y-1058
Door lock system	Hujiang C-4
Towel bar	L-600 mm
Shower mixer	Thermostatic mixing
Scupper	150 x 150
Inlet pipe	Ø 16
Cable	3"1.5
Junction box	XiePu

Further accessories are available, for example:
Door holder, washbasin system or mixer, soap dish, mirror cabinet, razor socket, coat hook, toilet brush, shower set, hygienic bag dispenser, cur-tain, curtain rail, waste bin, tissue holder, glass cup, vacuum toilet, ball valve, angle valve or clear glass shower.

Rheinhold & Mahla

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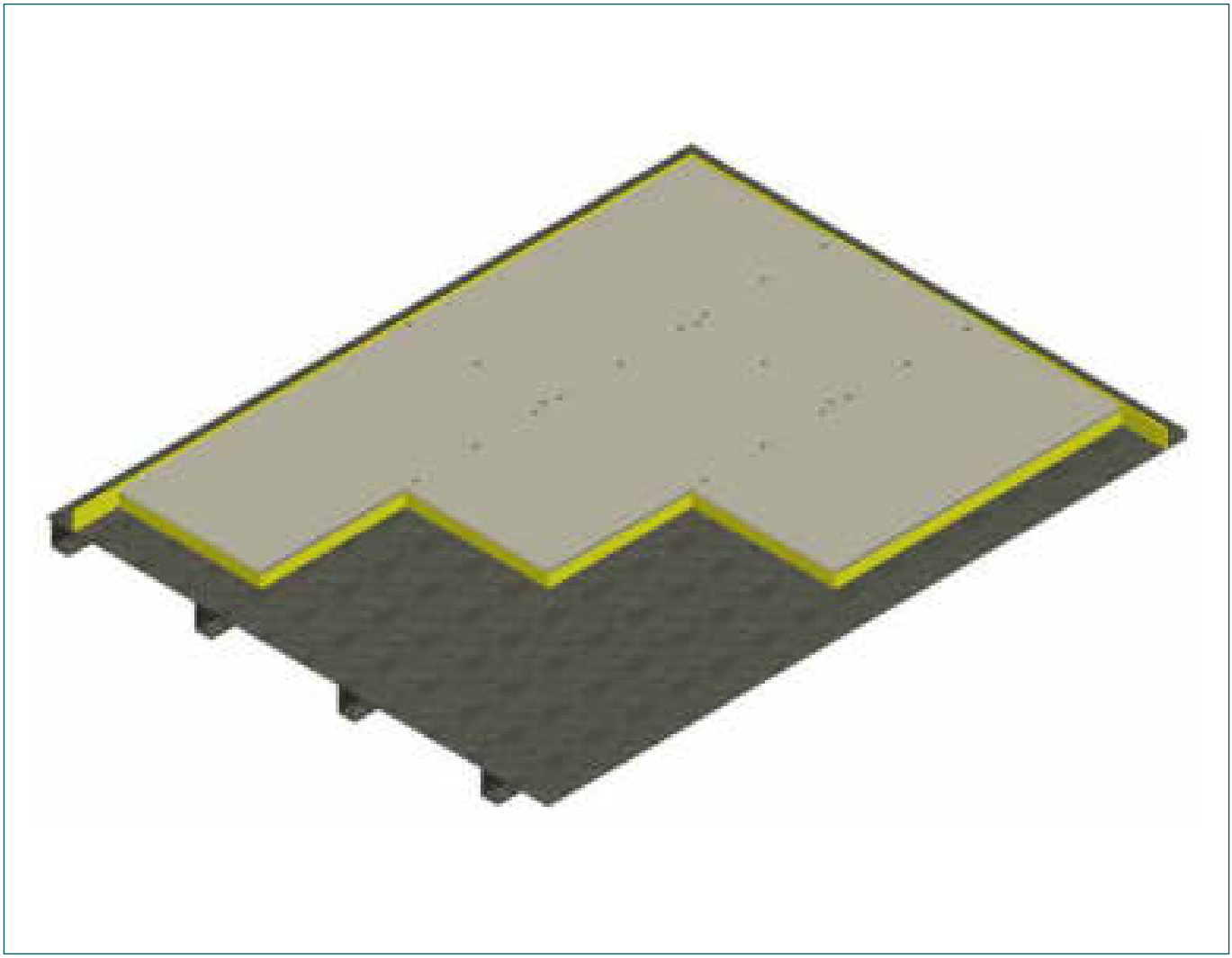
Floors

Floating floor

Type Floor panel C

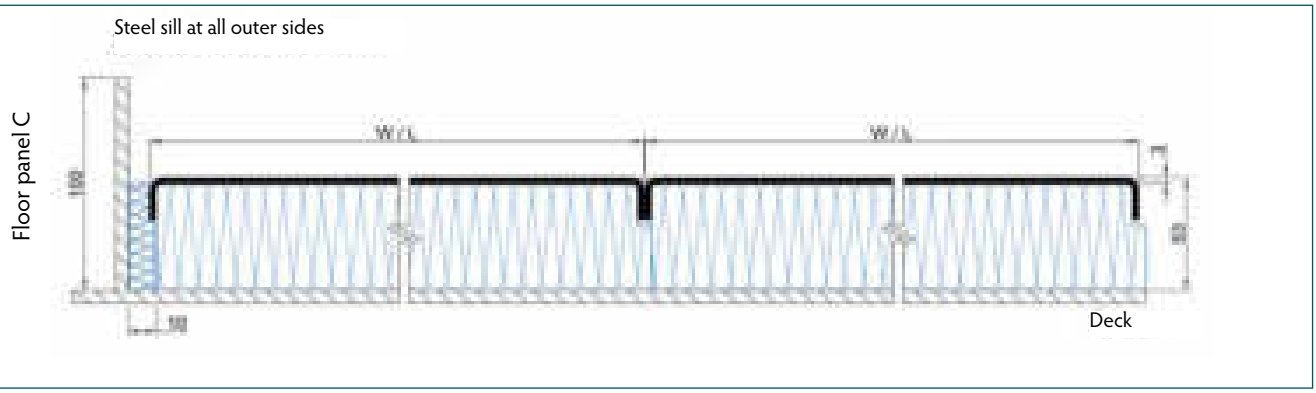


The design of the floating floor type C comprises aligned individual panels. The panel type is only deviating in the total thickness. After being laid down the panels have to be spot welded approximately every 200 mm. According to customer requirements the floor is afterwards finished with individual coating elements.

The design of the floating floor panel type C and all components have been tested and approved according to international standards.

Floating floor

Type Floor panel C



Technical data	Floor panel C
Covering layer (visible side)	Steel
Fire classification	C
Thickness	53 mm
Element width	600 mm
Element length	1,200 / 2,400 mm
Weight	32.3 kg/m^2
Certification	---

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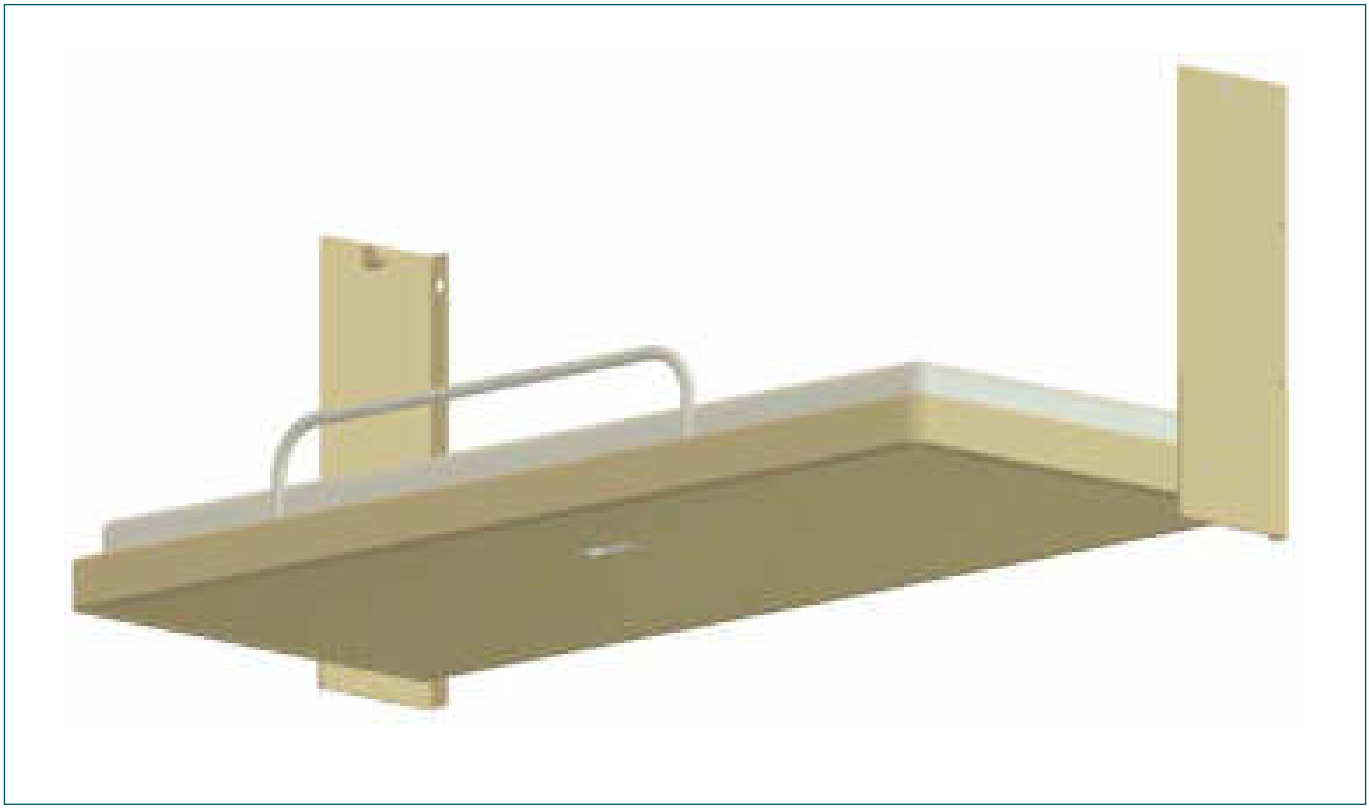
Pullman beds

Pullman beds

Pullman bed for walls

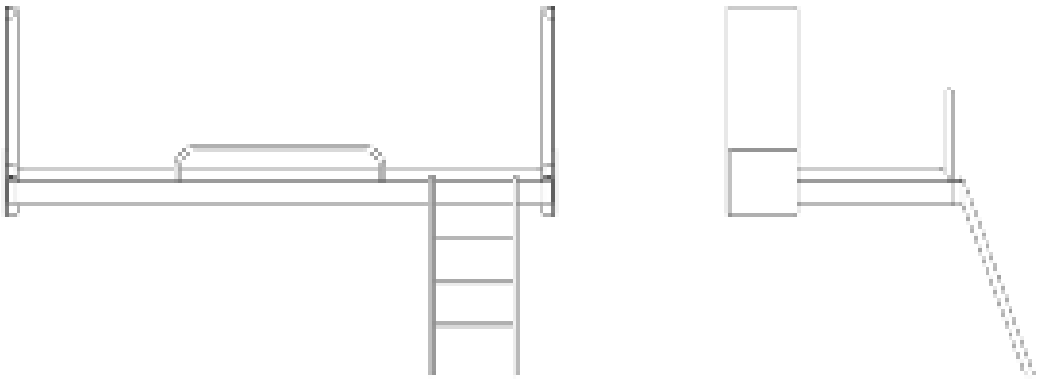


The Pullman bed for walls assembly is based on the design formerly distributed by company Aljo. Operated by gas springs it is used in accommodation areas where an additional sleeping berth needs to be erected. The Pullman bed needs to be mounted at reinforced wall panels whereas the reinforcement can be customized according to the project demands.

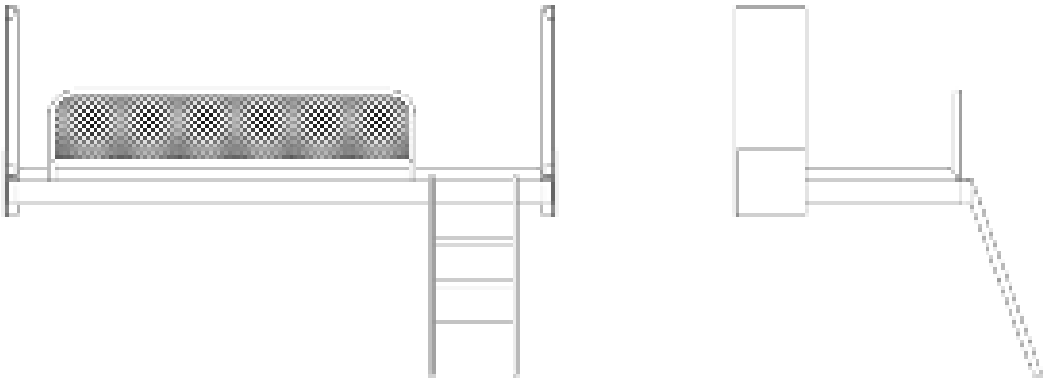
Pullman beds

Pullman bed for walls

Pullman bed shown with folding safety rail & ladder



Pullman bed shown with child safety rail & ladder



Technical data	Pullman bed for walls
Material	Aluminum
Fire classification	---
Dimensions - Height	875 mm *
- Width	2,110 mm *
- Depth	268 mm *
Reclining surface - Width	up to 770 mm **
- Length	up to 1,920 mm **
Closing mechanism	operated by gas springs
Weight	~ 40 kg
Permissible load	up to 150 kg
Fixtures - Standard	Folding safety rail
- Options	Child safety rail, ladder, mattress
Coating	powder coated
Certification	---

* bed closed
** other sizes on request

Pullman beds

Pullman bed with ceiling box

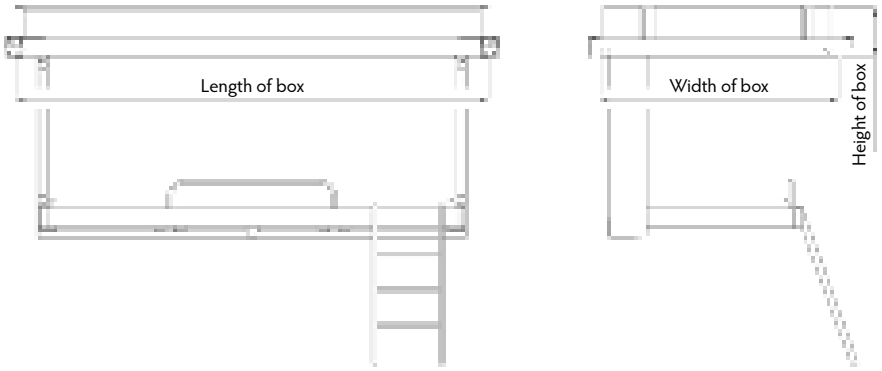
The Pullman bed with ceiling box is based on the design formerly distributed by company Aljo. It is used in accommodation areas where an additional sleeping berth needs to be erected. With its B-15 fire class the construction guarantees the continuous B-class fire rating of the surrounding ceiling. The Pullman bed needs to be mounted with sub construction, which can be customized according to the project demands. Depending on customer specifications different closing mechanisms and fixtures can be chosen.

The design of the Pullman bed with ceiling box and all components have been tested and approved according to international standards.

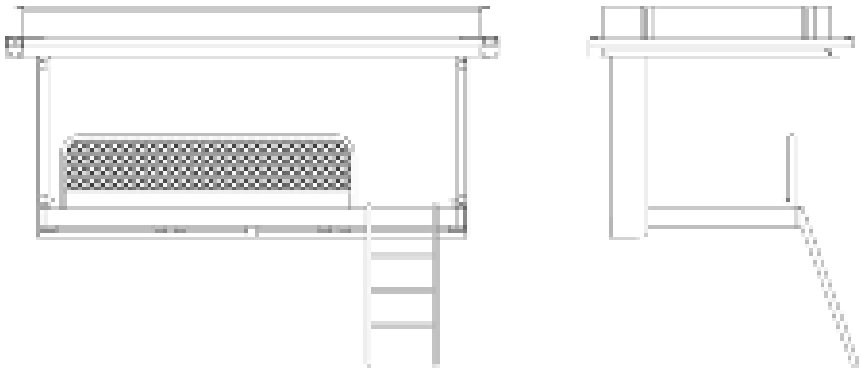
Pullman beds

Pullman bed with ceiling box

Pullman bed shown with folding safety rail & ladder



Pullman bed shown with child safety rail & ladder



Technical data	Pullman bed with ceiling box
Material - Ceiling Box	Steel
- Bed	Aluminum
Fire classification	B-15 / A-30*
Dimensions of box - Height	up to 209 mm
- Width	up to 1,135 mm
- Length	up to 2,245 mm
Reclining surface - Width	up to 770 mm
- Length	up to 1,920 mm
Closing mechanism	Snap fit (unrestricted access) Turning lock (restricted access)
Weight	~ 160 kg **
Permissible load	up to 150 kg
Fixtures - Standard	Folding safety rail
- Options	Child safety rail, ladder, mattress
Coating	powder coated
Certification	MED, USCG

* with overlying steel deck placed min. 273 mm apart from ceiling box
** including sub construction for assembly on top of ceiling

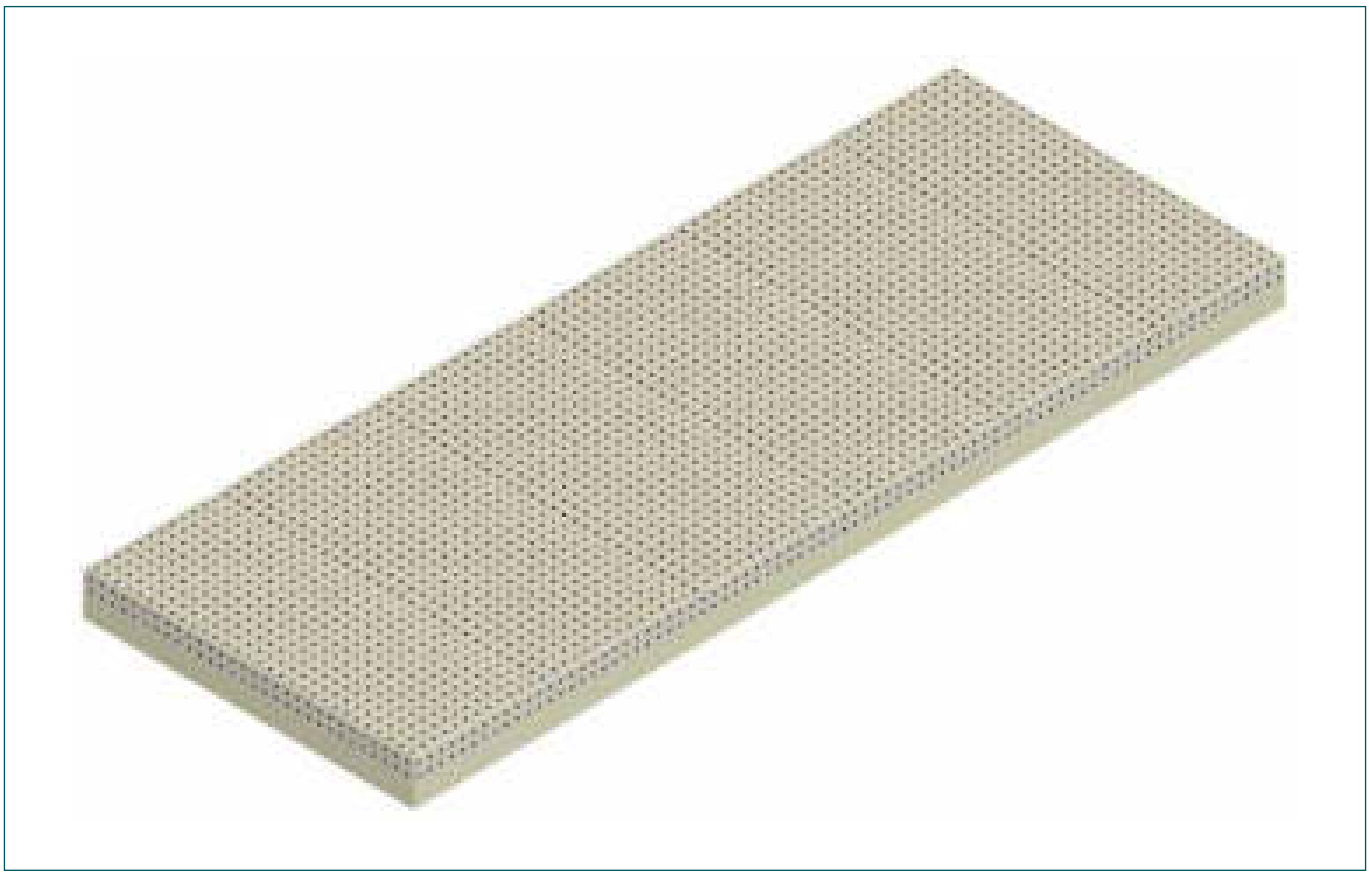
Rheinhold & Mahla

Since 1887

Materials & Accessories

Materials & Accessories

Type R&M SUBMAT™

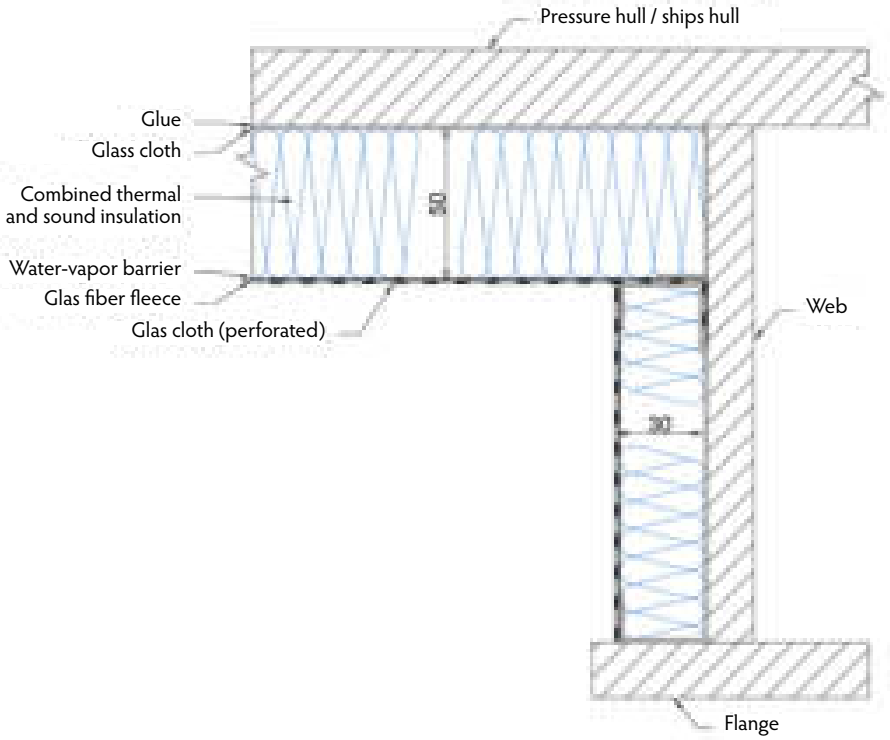


The R&M SUBMAT™ is a high-quality insulation material based on earth alkali silicate fibers, that was specially designed for the common needs of shipbuilding industry. With its characteristics, it fulfills both acoustic and thermotechnical standards. Due to the high degree of prefabrication it can be fitted according to the demands on site before installation. The multilayered blanket is free of binder content and contains an integrated water-vapor barrier.

The design of the R&M SUBMAT™ and all components have been tested and approved according to international standards.

Materials & Accessories

Type R&M SUBMAT™



Technical data	R&M SUBMAT ™
Composition	prefabricated multilayer blanket
Fire classification	non-combustible
Dimensions - Standard	30 / 50 x 380 x 1,000 mm (thickness x width x length)
- Customized	up to 100 x 1,000 x 3,000 mm (thickness x width x length)
Density	96 kg/m^3
Thermal conductivity	at 25°C approx. 0.035 W/mK
Temperature range	up to 200°C
Weight - 30 mm	4.0 kg/m^2
- 50 mm	6.0 kg/m^2
Certification	MED, USCG, WIWEB

Rheinhold & Mahla

Since 1887

Furniture

Customized furniture

From beds, seats to tables for all areas

The production of furniture completes the entire portfolio of R&M Products and ranges from sofas, cupboards, wooden or metal beds to table and counters. All products are manufactured to meet standard specifications or individual customer requirements. We offer a wide range from hand-crafted individual or series production with different materials and highest quality in partnership with recognized architects to typical requested interiors. Fine inlay works, first-class surface finishing or whatever our customers wish or need on board of their ships, maritime facilities as well as in their hotels, we are pleased to create furniture in suitable designs for tasteful interior.

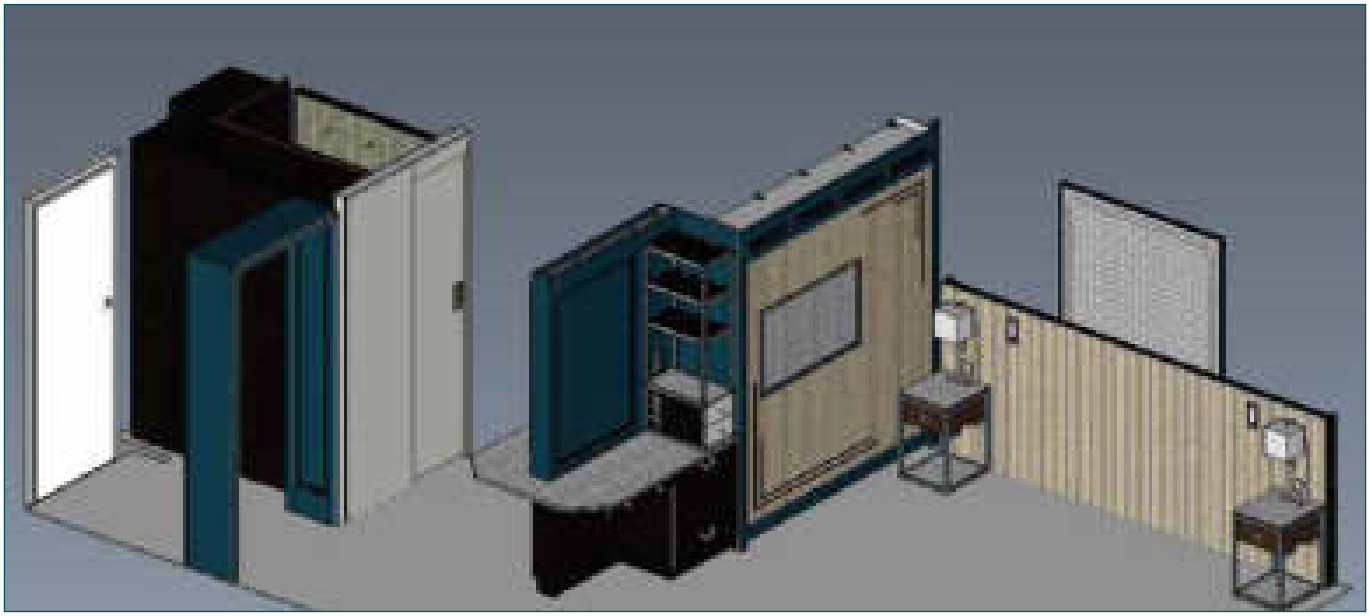
We work with latest CNC technology for most requirements in a short turnaround time for best quality. Supported by an integrated CAD/CAM system, Top Solid Wood, which is developed for the joinery industry with a design-to-build philosophy, we produce furniture on an efficient and perfect way together with our customers. Changes can be done in a few seconds and 2D drawings can be reconstructed into 3D images.

We take an integrated approach to supporting our customers from the design and the safe delivery to the assembly. All furniture is packaged in a delivery and assembly-friendly manner. We have a customized weight management and offer worldwide shipping and assembly

Because of our structure, processes and thus an optimum way of working, we are able to provide standard as well as customized products. Therefore, we distinguish roughly in these categories in the present data sheets for the purpose giving you an impression of our capabilities. At any time, we design and develop products together with our customers down to the last detail.

Impressions of customized furniture

Suite on board of a river cruise vessel



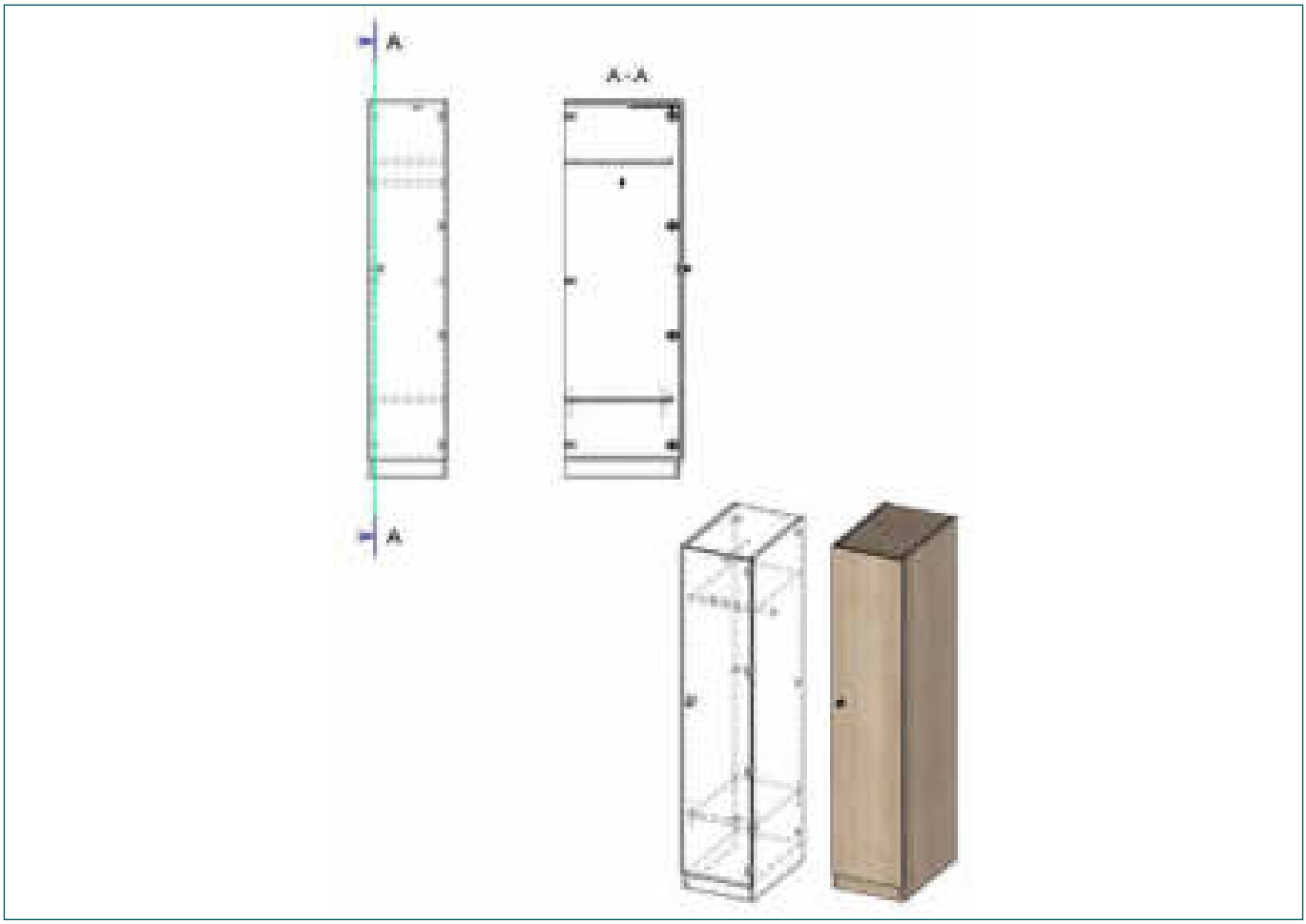
Customized furniture

Toilet in a public area on board of a ferry

Lobby bar in a hotel

Standard furniture

Single wardrobe Type 1

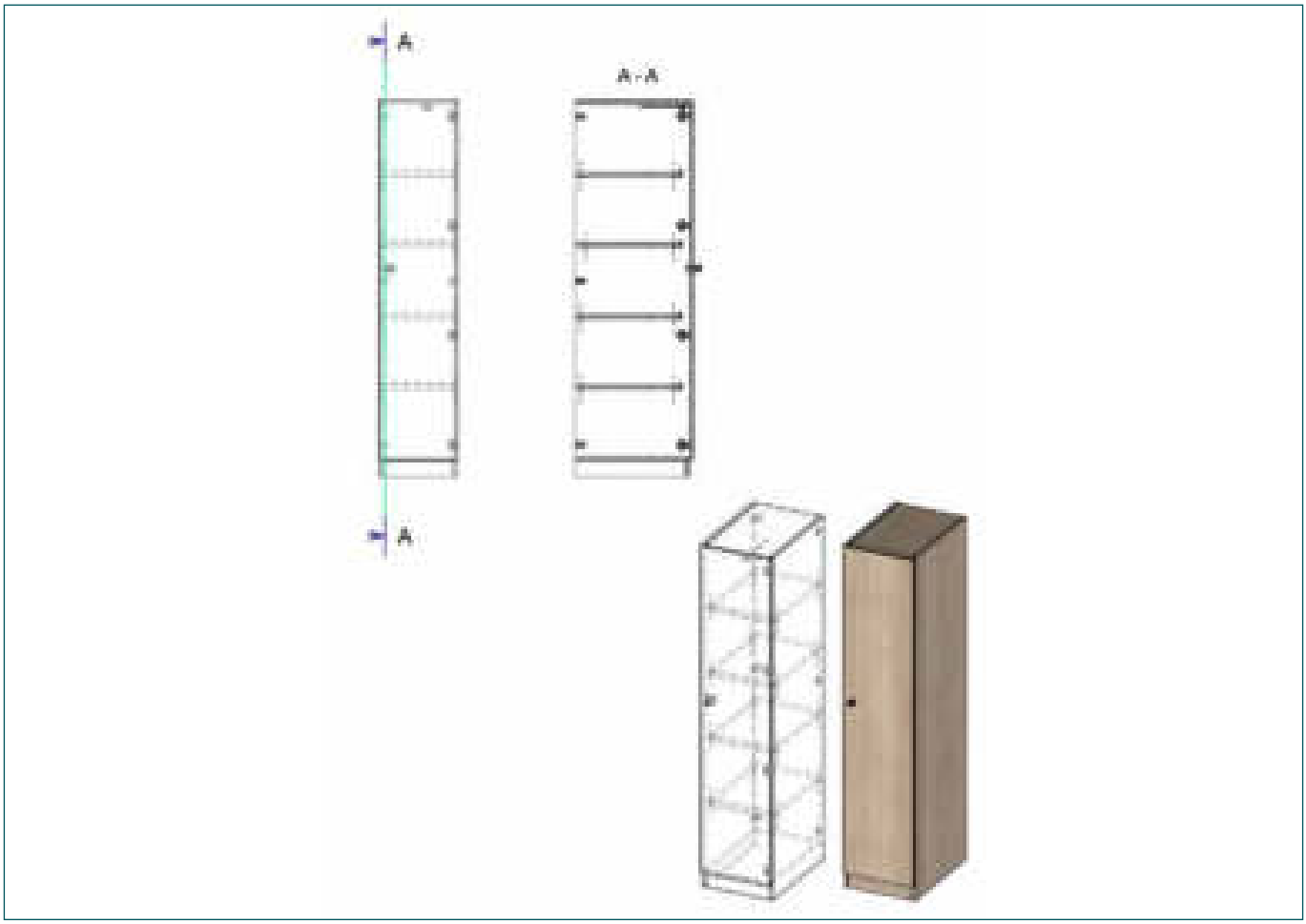


The single wardrobe Type 1 consists of a carcass with no back panel and has a lockable door. The interior contains a fixed shelf and a clothes rail. There is a fixed, recessed plinth panel. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single wardrobe Type 1	1,900	400	580	3.75
	1,900	500	580	4.16
	1,900	600	580	4.57
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Single wardrobe Type 2

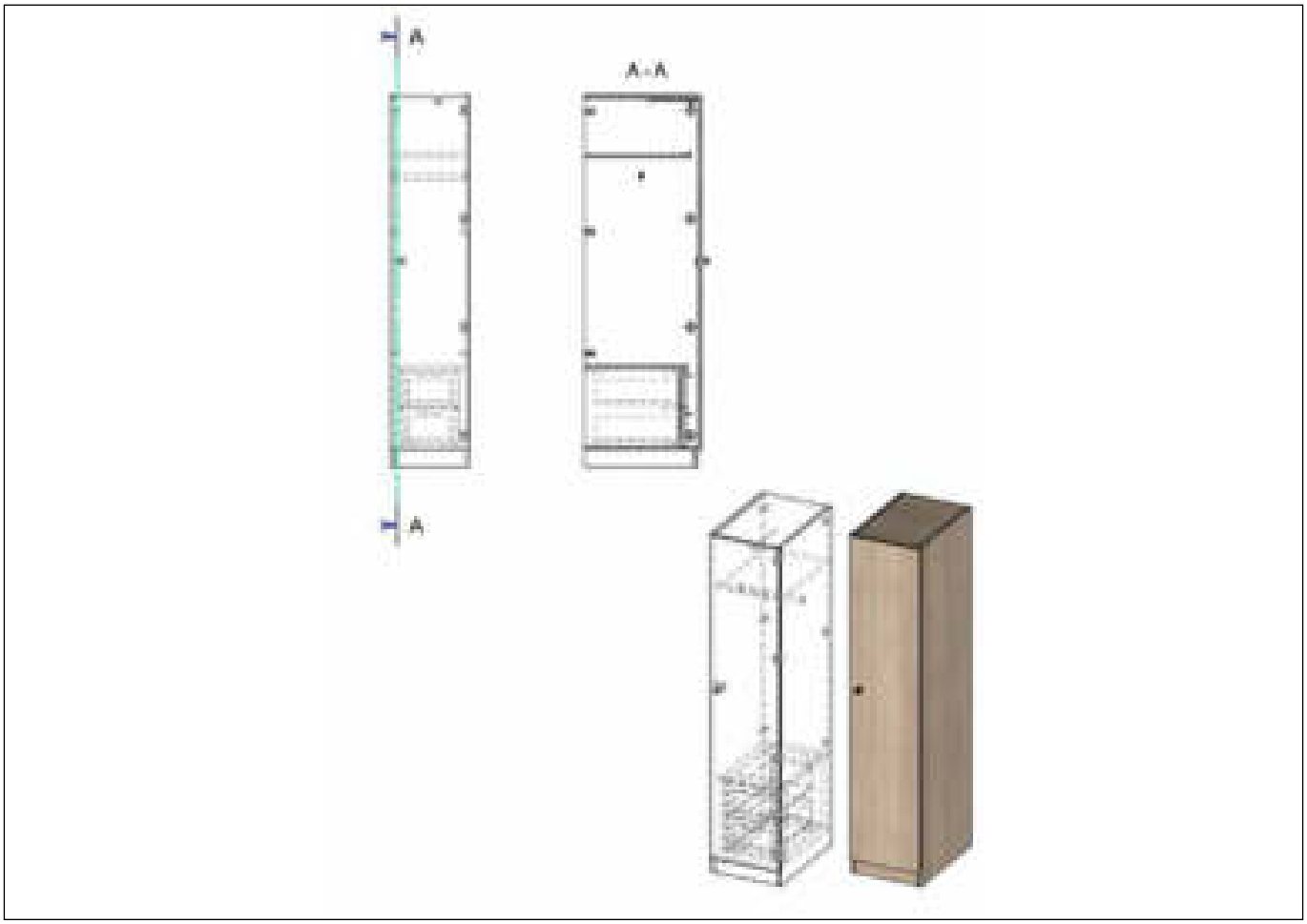


The single wardrobe Type 2 consists of a carcass with no back panel and has a lockable door. The interior contains four adjustable shelves. There is a fixed, recessed plinth panel. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single wardrobe Type 2	1,900	400	580	4.14
	1,900	500	580	4.65
	1,900	600	580	5.17
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Single wardrobe Type 3

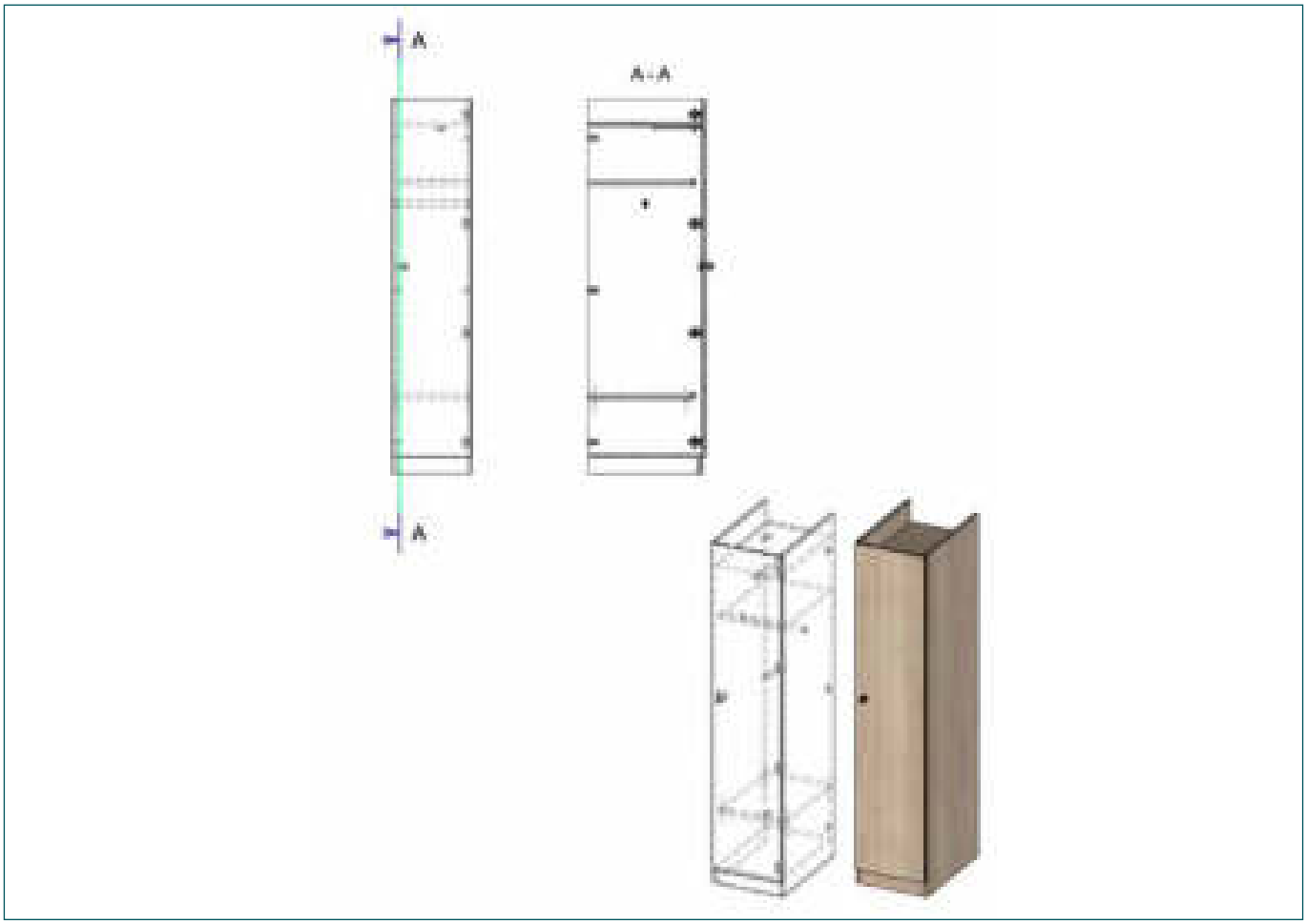


The single wardrobe Type 3 consists of a carcass with no back panel and has a lockable door. The interior contains a fixed shelf, a clothes rail and two drawers set behind the door. There is a fixed, recessed plinth panel. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single wardrobe Type 3	1,900	400	580	4.42
	1,900	500	580	4.92
	1,900	600	580	5.42
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Single wardrobe Type 4



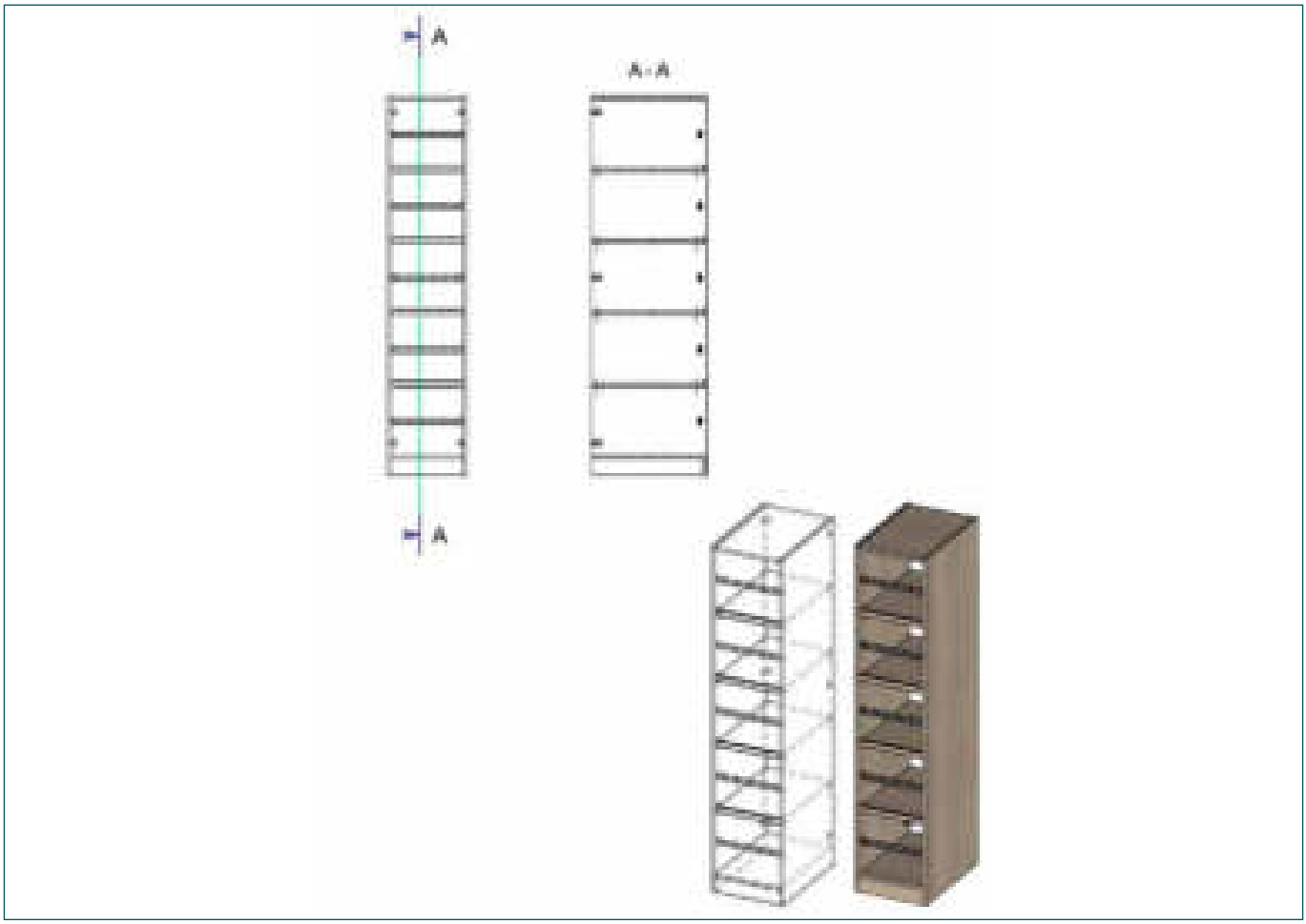
The single wardrobe Type 4 consists of a carcass with no back panel and has a lockable door. The interior contains a fixed shelf, a clothes rail and an adjustable shelf. There is a fixed, recessed plinth panel.

Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings s is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single wardrobe Type 4	1,900	400	580	3.75
	1,900	500	580	4.16
	1,900	600	580	4.57
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Bookcase

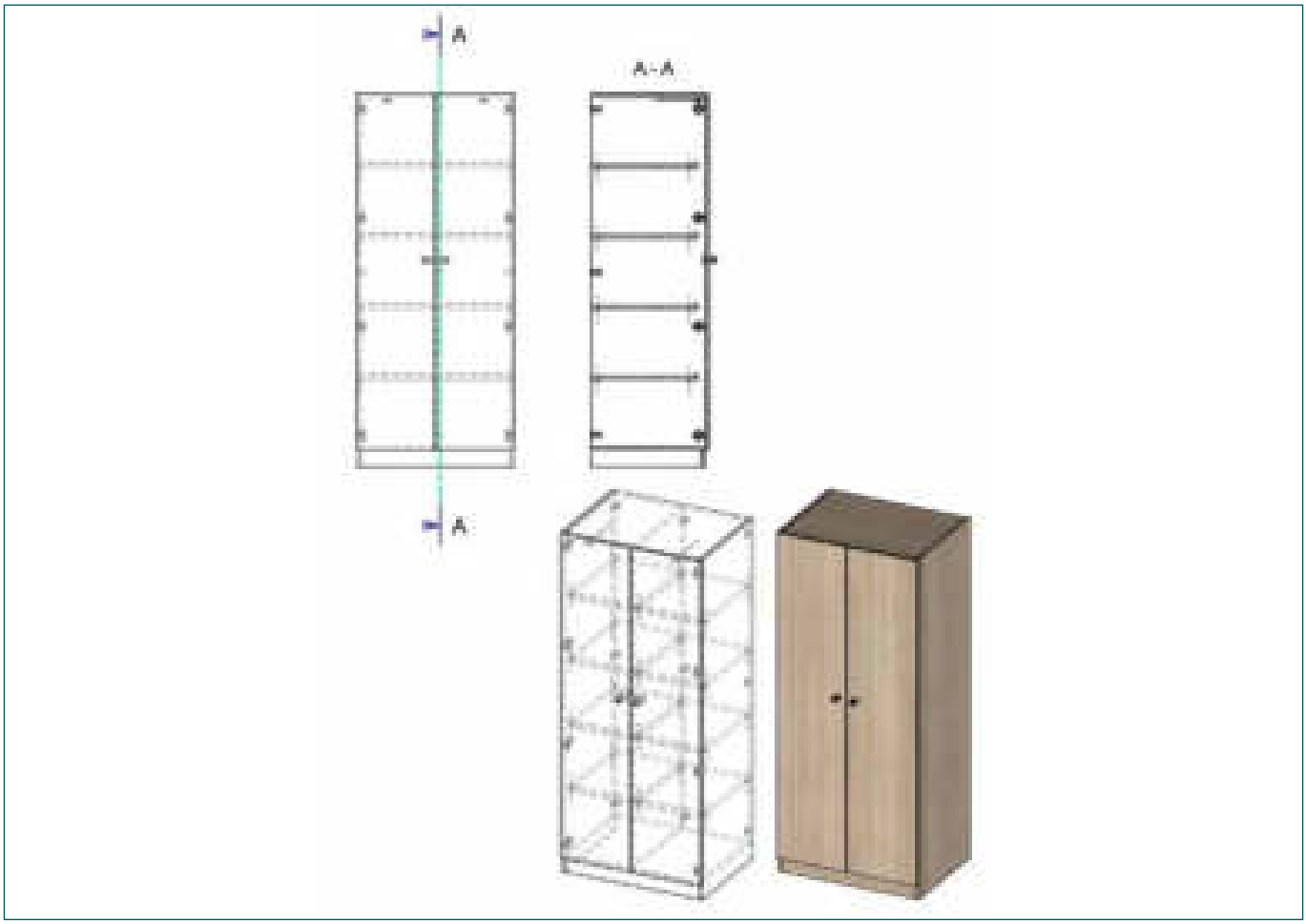


The bookcase consists of a carcass without a back or front panel. The interior contains four fixed shelves and five rails. There is a fixed, recessed plinth panel. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single wardrobe Type 5	1,900	400	580	3.46
	1,900	500	580	3.81
	1,900	600	580	4.16
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Double wardrobe Type 1

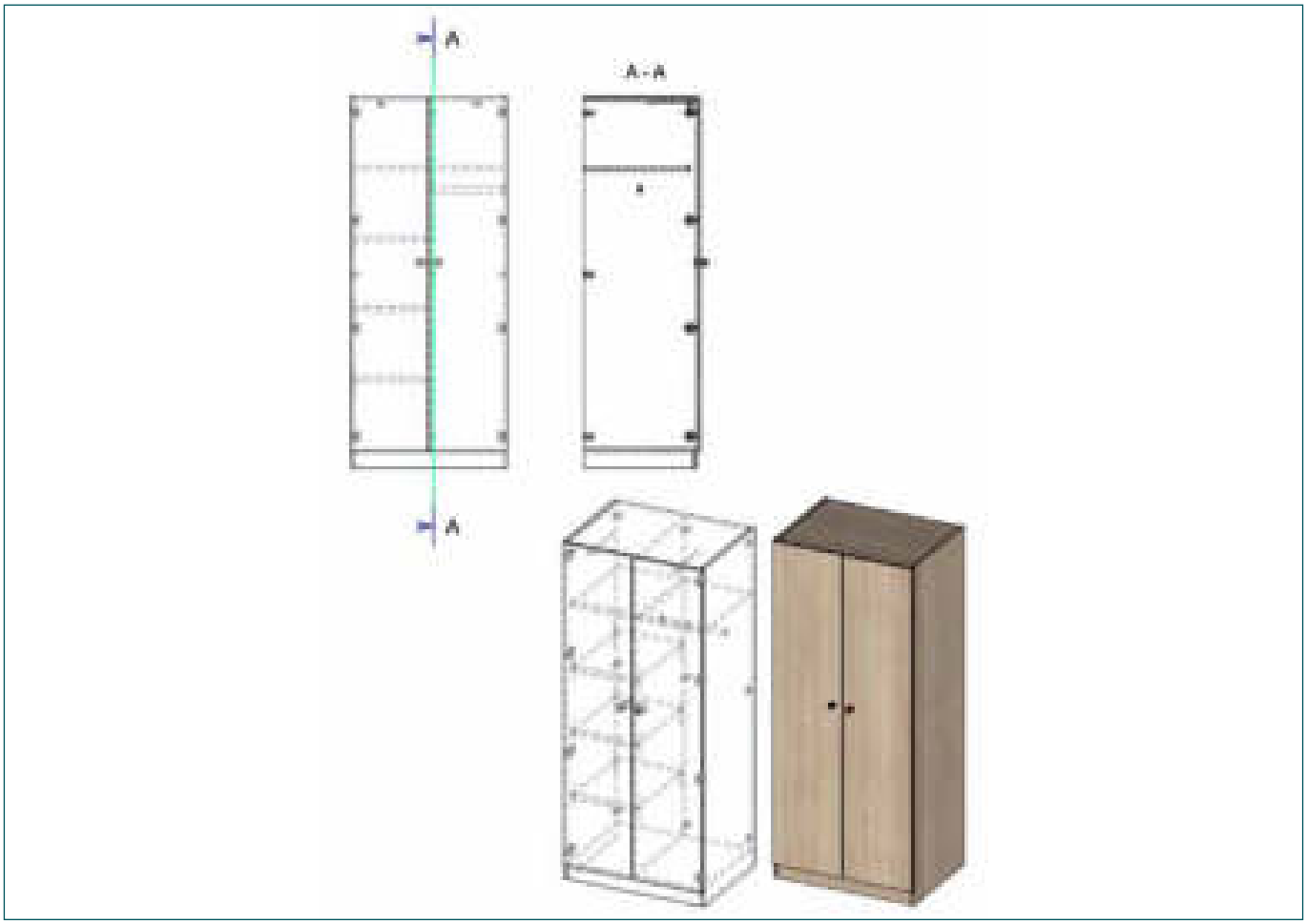


The double wardrobe Type 1 consists of a carcass with no back panel and has two lockable doors. The interior is divided in two by a partition. Each half contains four adjustable shelves. There is a fixed, recessed plinth panel. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double wardrobe Type 1	1,900	800	580	7.19
	1,900	1,000	580	8.22
	1,900	1,200	580	9.25
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Double wardrobe Type 2

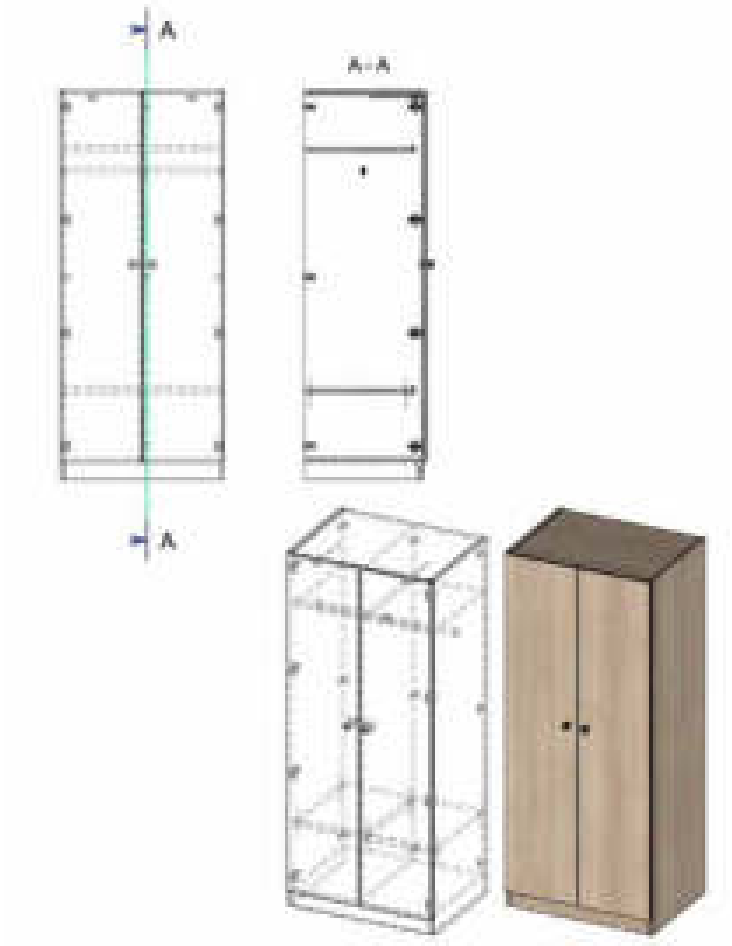


The double wardrobe Type 2 consists of a carcass with no back panel and has two lockable doors. The interior is divided in two by a partition. One half has four adjustable shelves and a clothes rail, the other contains a fixed shelf and a clothes rail. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. There is a fixed, recessed plinth panel. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double wardrobe Type 2	1,900	800	580	6.59
	1,900	1,000	580	7.47
	1,900	1,200	580	8.35
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Double wardrobe Type 3

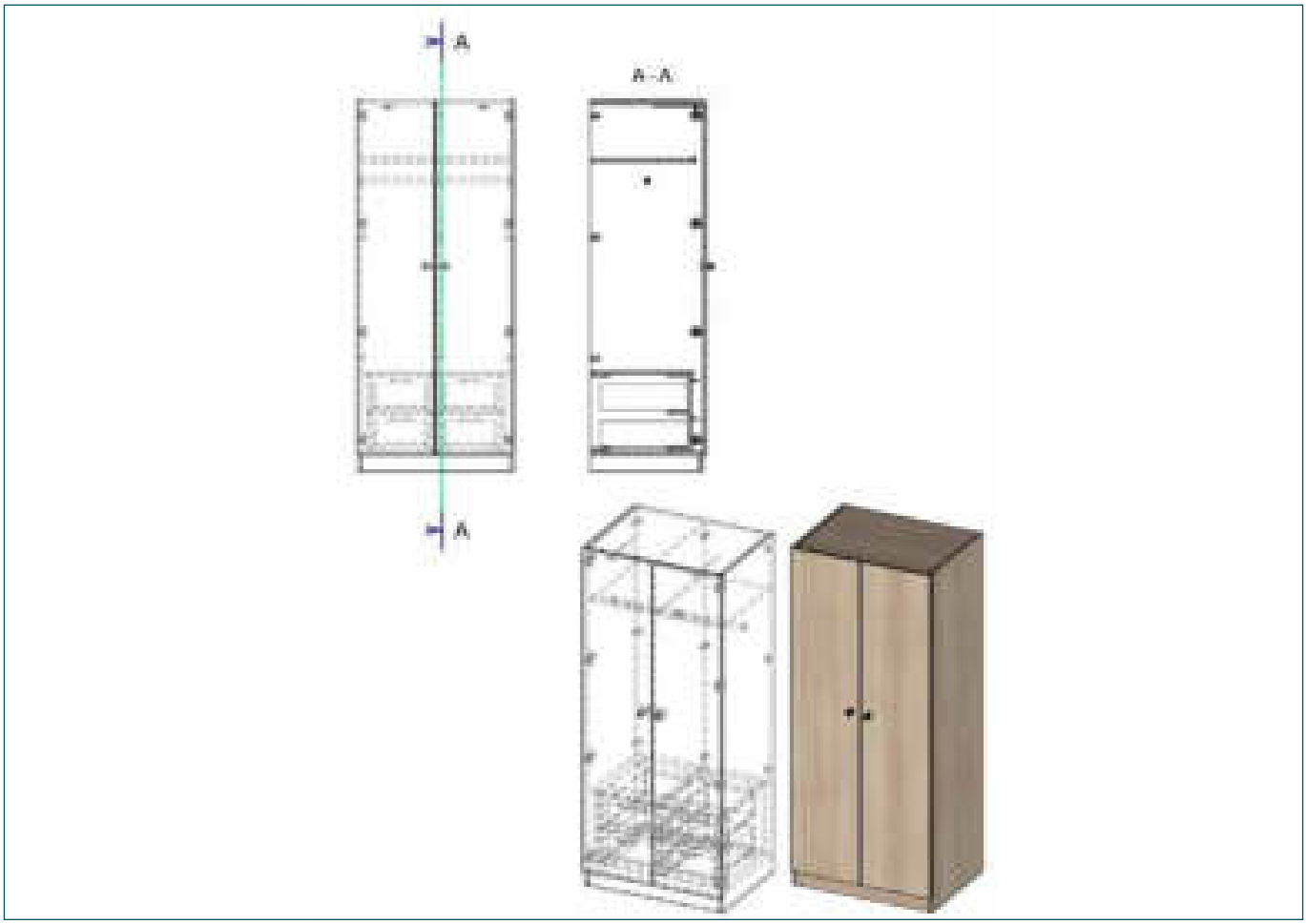


The double wardrobe Type 3 consists of a carcass with no back panel and has two lockable doors. The interior is divided in two by a partition. Each half contains a fixed shelf, a clothes rail and an adjustable shelf. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. There is a fixed, recessed plinth panel. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double wardrobe Type 3	1,900	800	580	6.40
	1,900	1,000	580	7.22
	1,900	1,200	580	8.04
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Double wardrobe Type 4

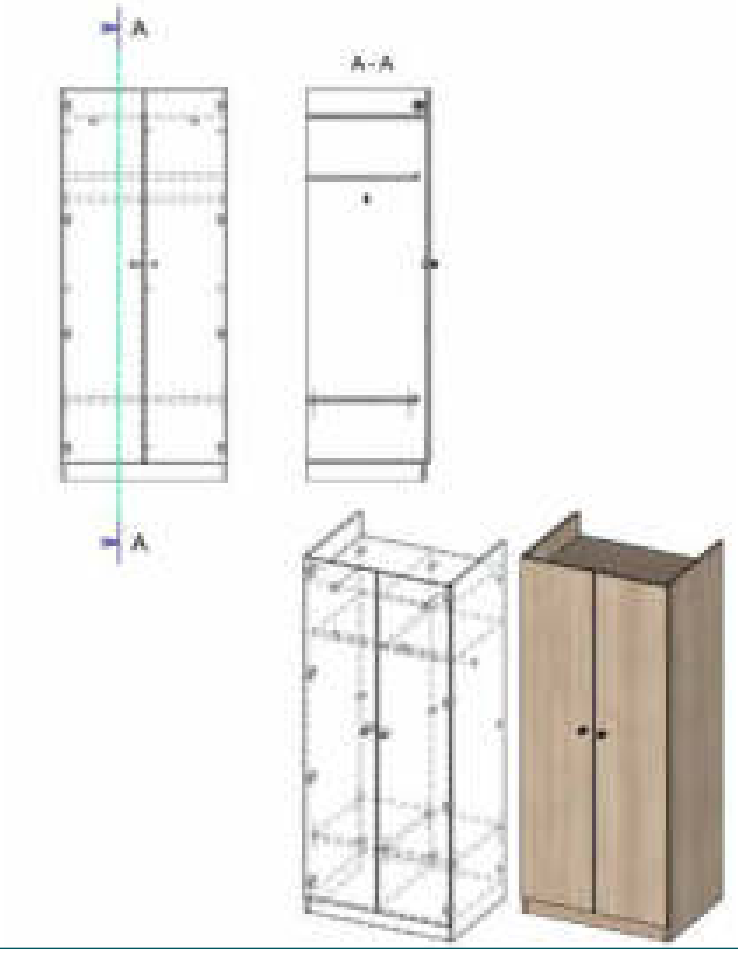


The double wardrobe Type 4 consists of a carcass with no back panel and has two lockable doors. The interior is divided in two by a partition. Each half contains a fixed shelf, a clothes rail and two drawers set behind the doors. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. There is a fixed, recessed plinth panel. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double wardrobe Type 4	1,900	800	580	7.78
	1,900	1,000	580	8.79
	1,900	1,200	580	9.79
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Double wardrobe Type 5



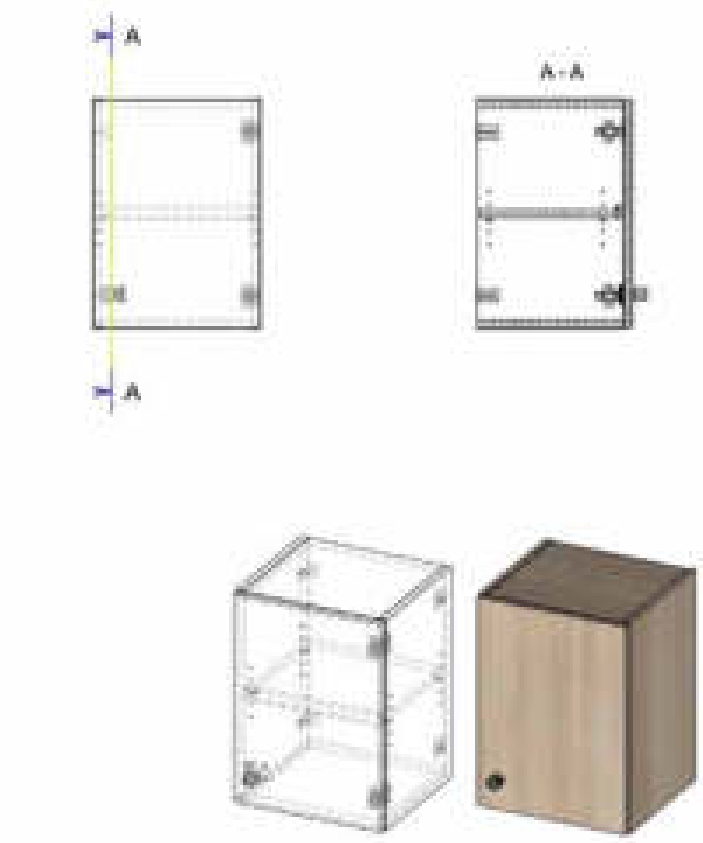
The double wardrobe Type 5 consists of a carcass with no back panel and has two lockable doors. The interior is divided in two by a partition. Each half contains a fixed shelf and a clothes rail. The top panel has been lowered to provide storage space for life jackets.

Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. There is a fixed, recessed plinth panel. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double wardrobe Type 5	1,900	800	580	6.33
	1,900	1,000	580	7.15
	1,900	1,200	580	7.98
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Single-door wall cupboard

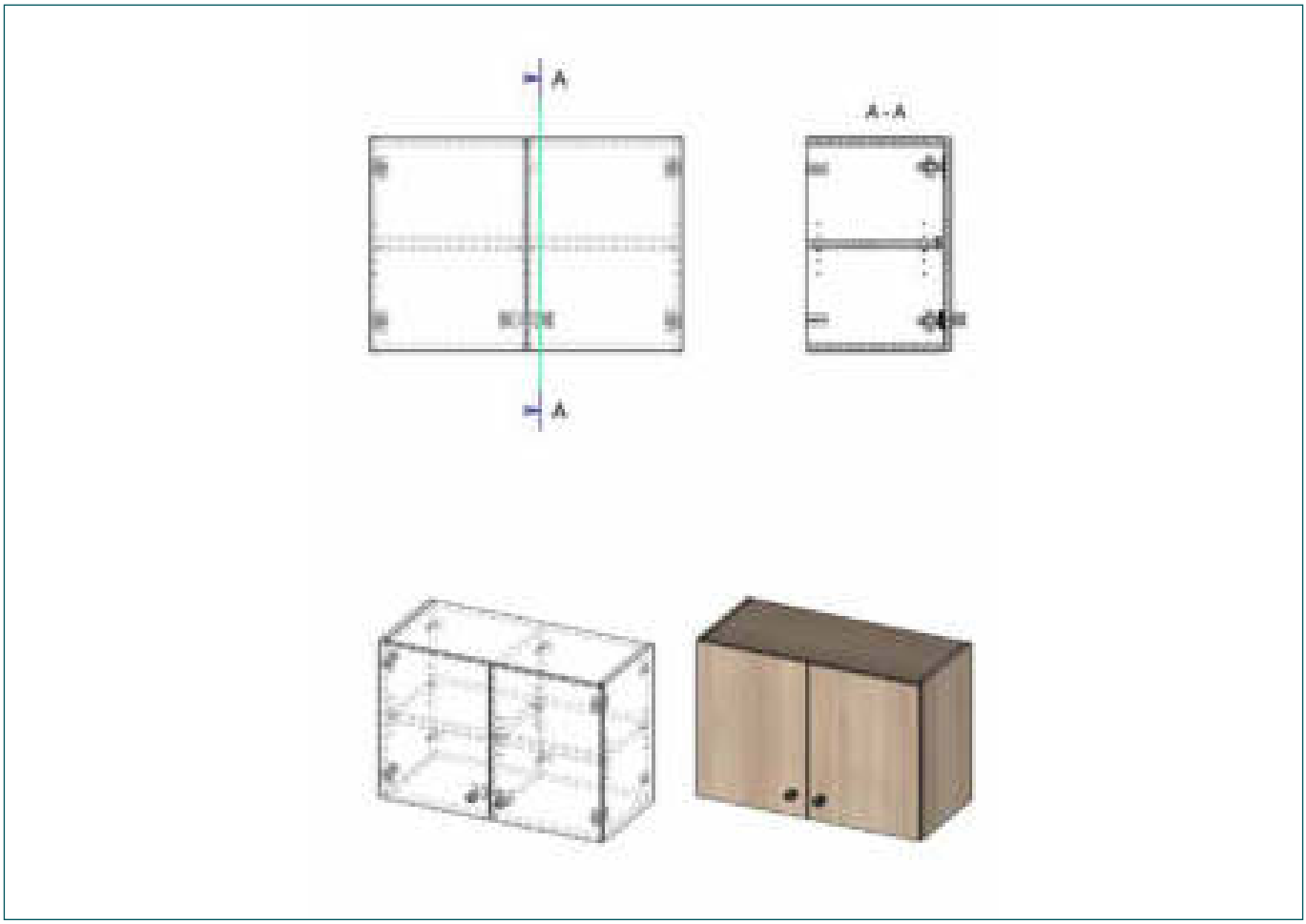


The single-door wall cupboard is wall-mounted as well as consists of a carcass with no back panel and has a lockable door. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. The interior contains an adjustable shelf. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single-door wall cupboard	550	400	350	0.97
	550	500	350	1.13
	550	600	350	1.29
	750	400	350	1.19
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Double-door wall cupboard

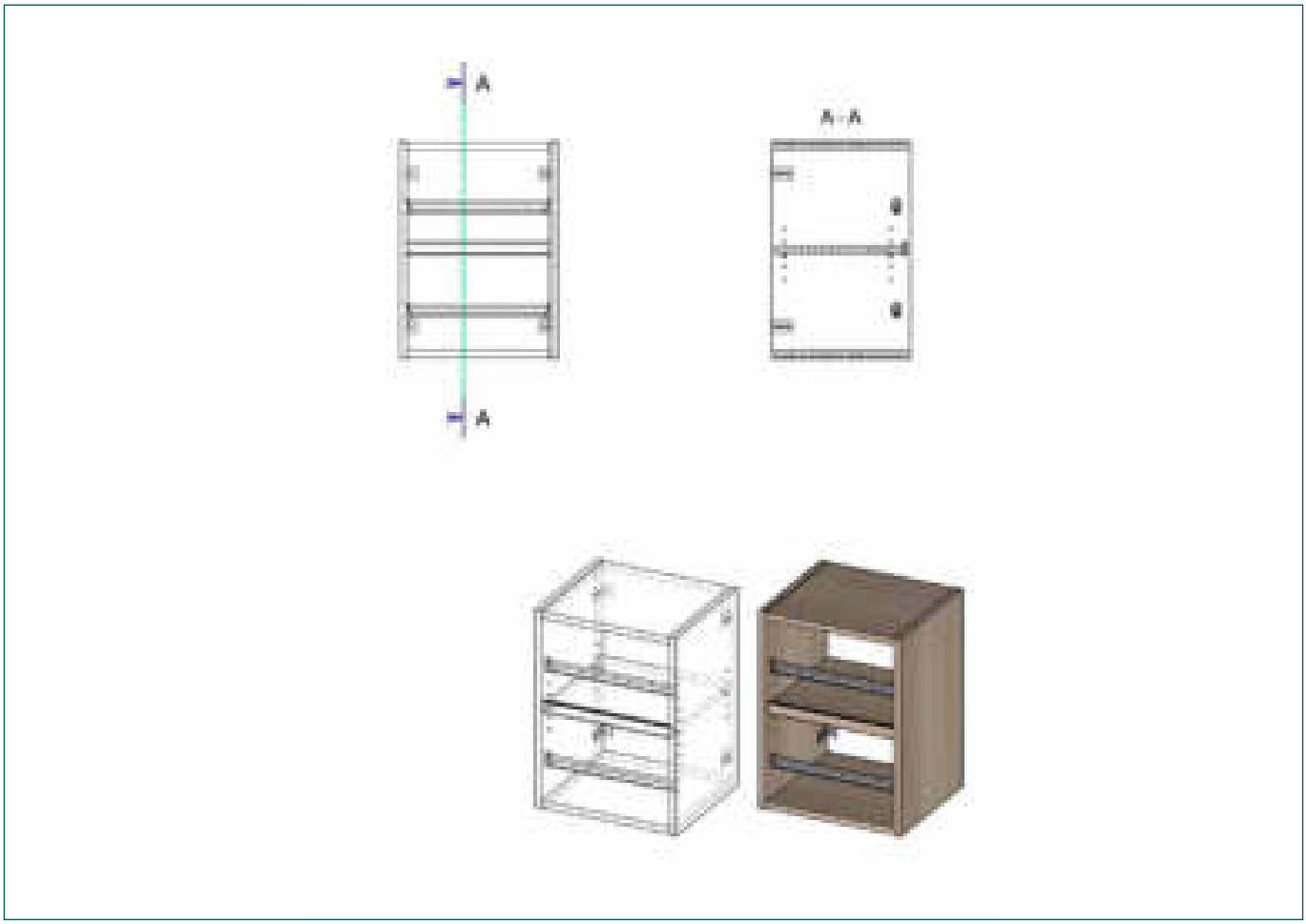


The single-door wall cupboard is wall-mounted as well as consists of a carcass with no back panel and has a lockable door. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. The interior contains an adjustable shelf. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double-door wall cupboard	550	800	350	1.77
	550	1,000	350	2.08
	550	1,200	350	2.40
	750	800	350	2.14
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Wall cupboard/Shelf Type 1

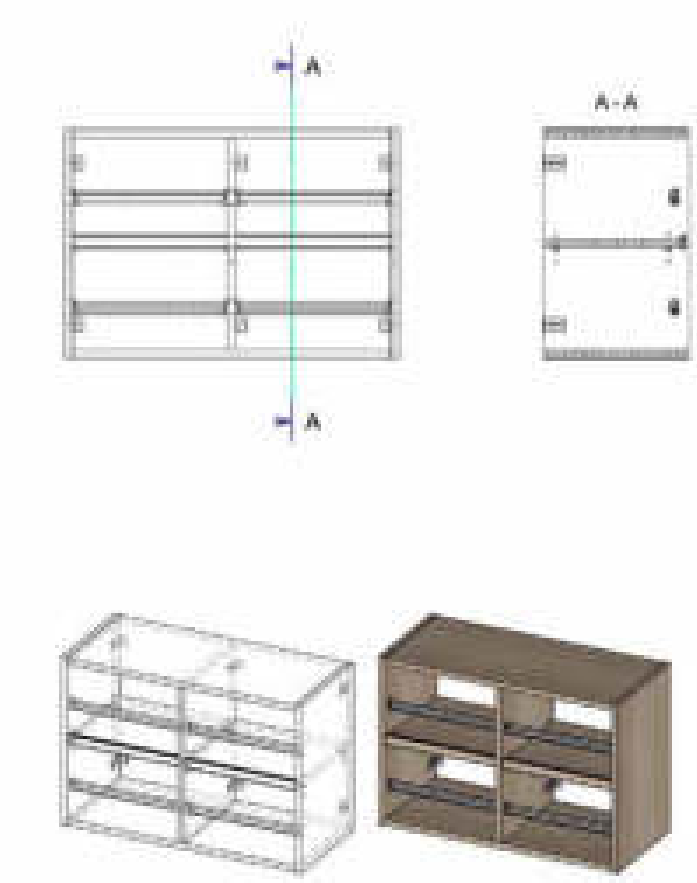


The wall cupboard/shelf Type 1 consists of a carcass with no back panel. The interior contains a fixed shelf and two rails. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Wall cupboard/shelf Type 1	550	400	350	0.76
	550	500	350	0.86
	550	600	350	0.96
	750	400	350	0.90
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Wall cupboard/Shelf Type 2



The wall cupboard/shelf Type 2 consists of a carcass with no back panel. The inside space is divided in two by a partition. Each half contains a fixed shelf and two rails. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Wall cupboard/shelf Type 2	550	800	350	1.34
	550	1,000	350	1.55
	550	1,200	350	1.75
	750	800	350	1.55
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

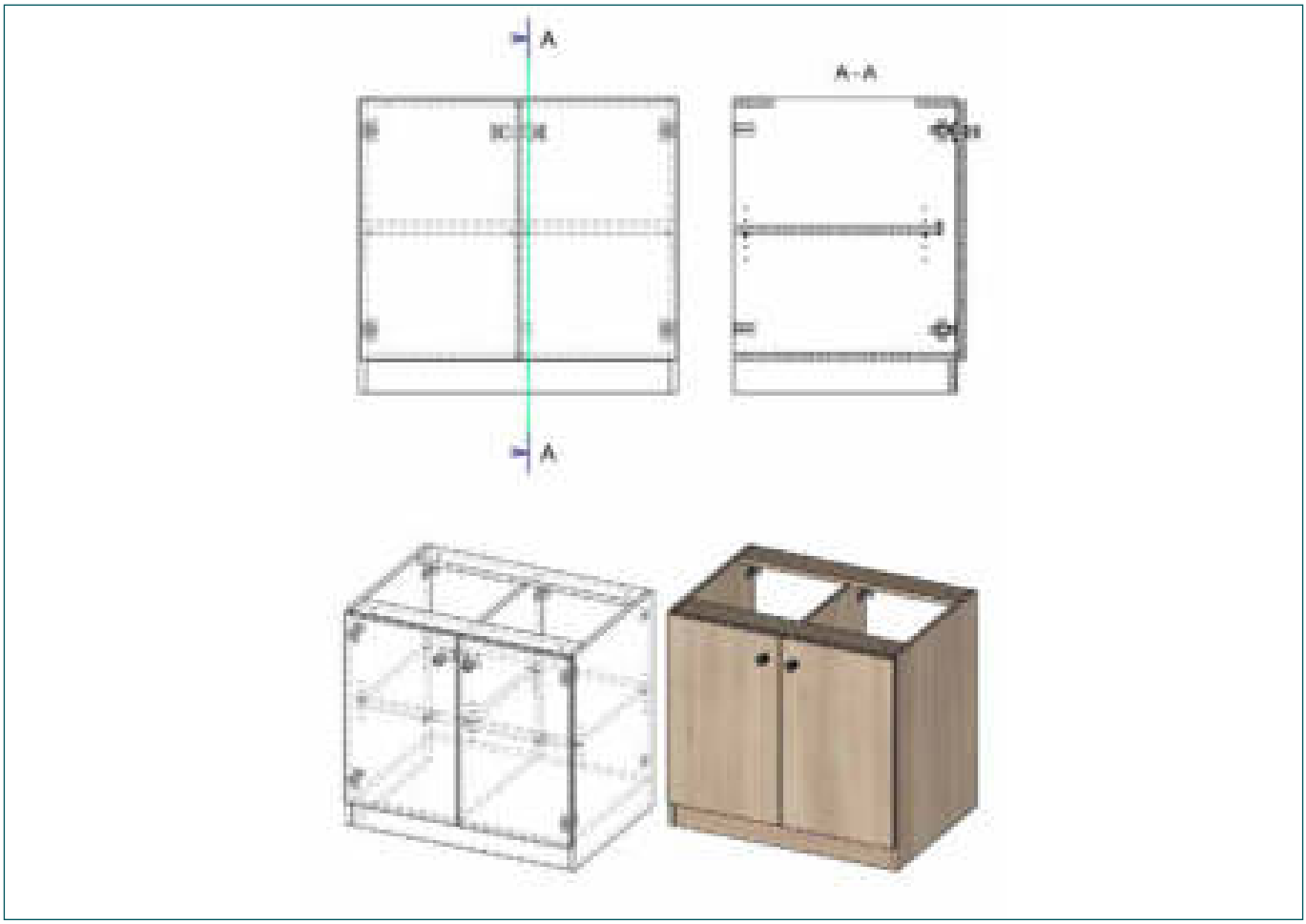
Single-door sideboard

The single-door sideboard consists of a carcass without back panel and has a lockable door. The interior contains an adjustable shelf. There is a fixed, recessed plinth panel. Each compartment has the clear height for a typical file. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single-door sideboard	741	400	560	1.58
	741	500	560	1.78
	741	600	560	1.98
	1,180 (3x files)	400	380	1.80
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Double-door sideboard



The double-door sideboard consists of a top panel, carcass without any back panel and has two lockable doors. The interior is divided in two by a partition. Each half contains one adjustable shelve. There is a fixed, base panel. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Double-door sideboard	741	4,800	560	2.71
	741	1,000	560	3.11
	741	1,200	560	3.51
	1,180 (3x files)	800	380	3.15
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

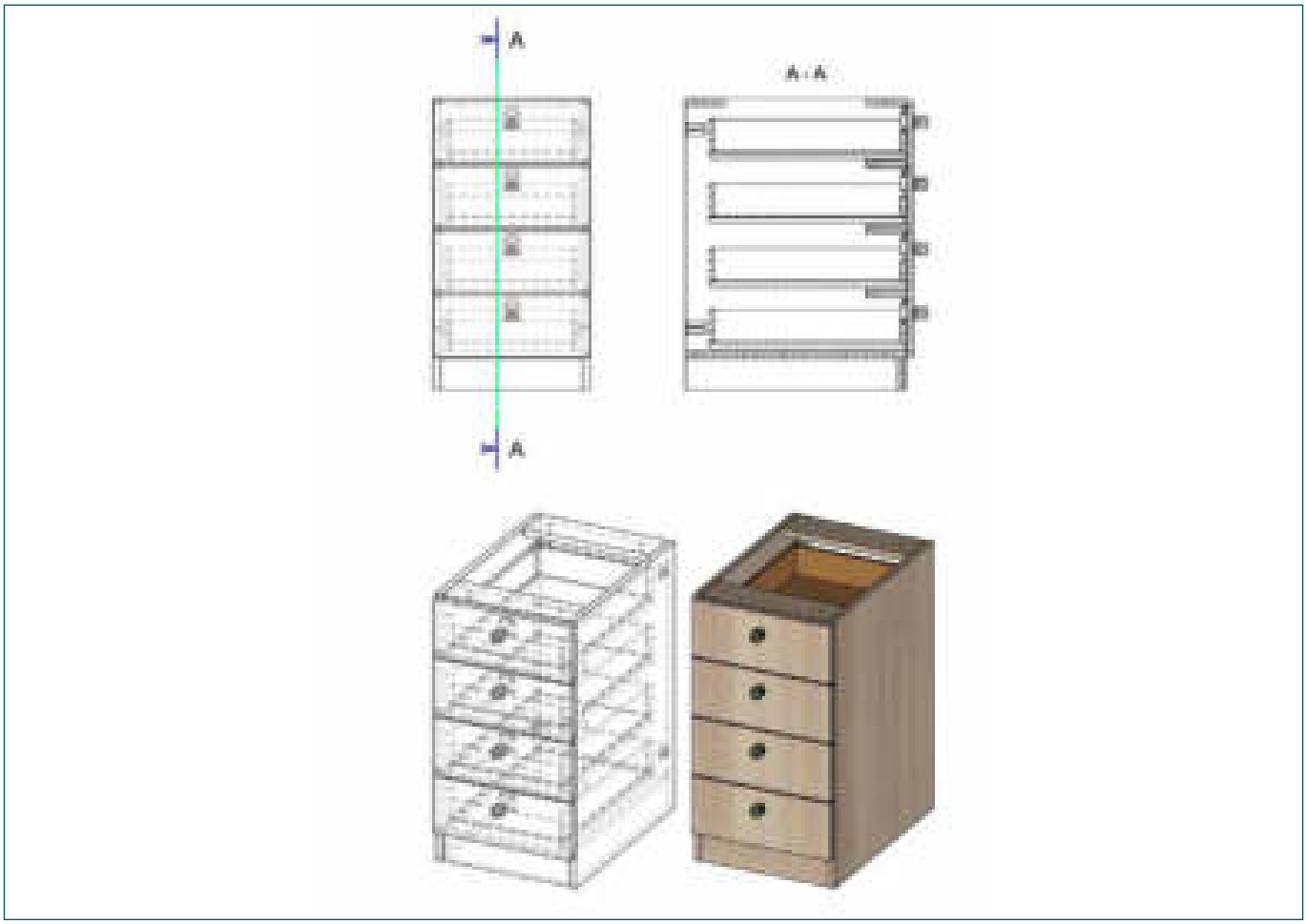
Sideboard with drawer and door

The sideboard Type 2 consists of a carcass without back panel and has a lockable door. The interior contains an adjustable shelf and an externally accessible drawer above the door. There is a fixed, plinth panel. Slides for drawer boxes in typical modern versions. (integrated self-closing) A choice of board materials and fittings are available.

Technical data	Height	Width	Depth (carcass)	m^2
Sideboard Type 2	741	400	560	1.62
	741	500	560	1.84
	741	600	560	2.05
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Sideboard Type 3



The base unit consists of a carcass without back panel and four drawers. There is a fixed, recessed plinth panel. Slides for drawer boxes in typical modern versions. (integrated self-closing) A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Sideboard Type 3	741	400	560	1.77
	741	500	560	2.02
	741	600	560	2.26
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

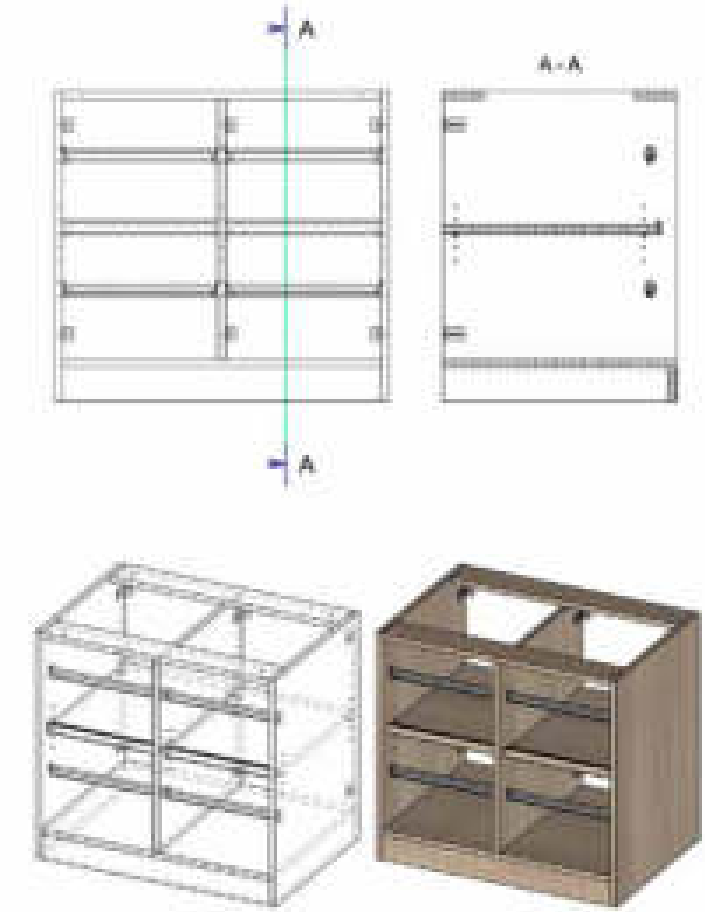
Sideboard Type 4

The sideboard Type 4 consists of with no back panel and has three drawers of differing heights. There is a fixed, recessed plinth panel. Slides for drawer boxes in typical modern versions. (integrated self-closing) Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Sideboard Type 4	741	400	560	1.48
	741	500	560	1.66
	741	600	560	1.83
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Open-front sideboard Type 1



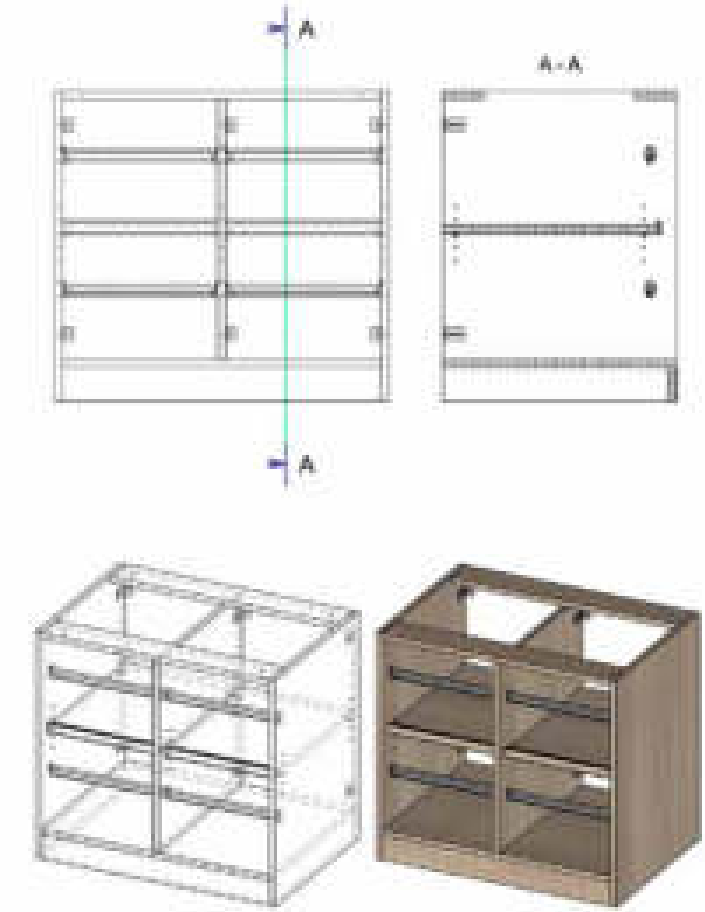
The open-front sideboard Type 1 consists of a carcass without back panel and has a lockable door. The interior contains an adjustable shelf and an externally accessible drawer above the door.

Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. There is a fixed, recessed plinth panel. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Open-front sideboard Type 1	741	400	560	1.33
	741	500	560	1.47
	741	600	560	1.61
	1,180 (3x files)	400	380	1.40
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Open-front sideboard Type 2



The open-front sideboard Type 2 has an open front, consists of a top panel and a carcass with no back panel. The interior contains a fixed shelf and two rails. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Open-front sideboard Type 2	741	800	560	2.20
	741	1,000	560	2.47
	741	1,200	560	2.74
	1,180 (3x files)	800	380	2.29
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

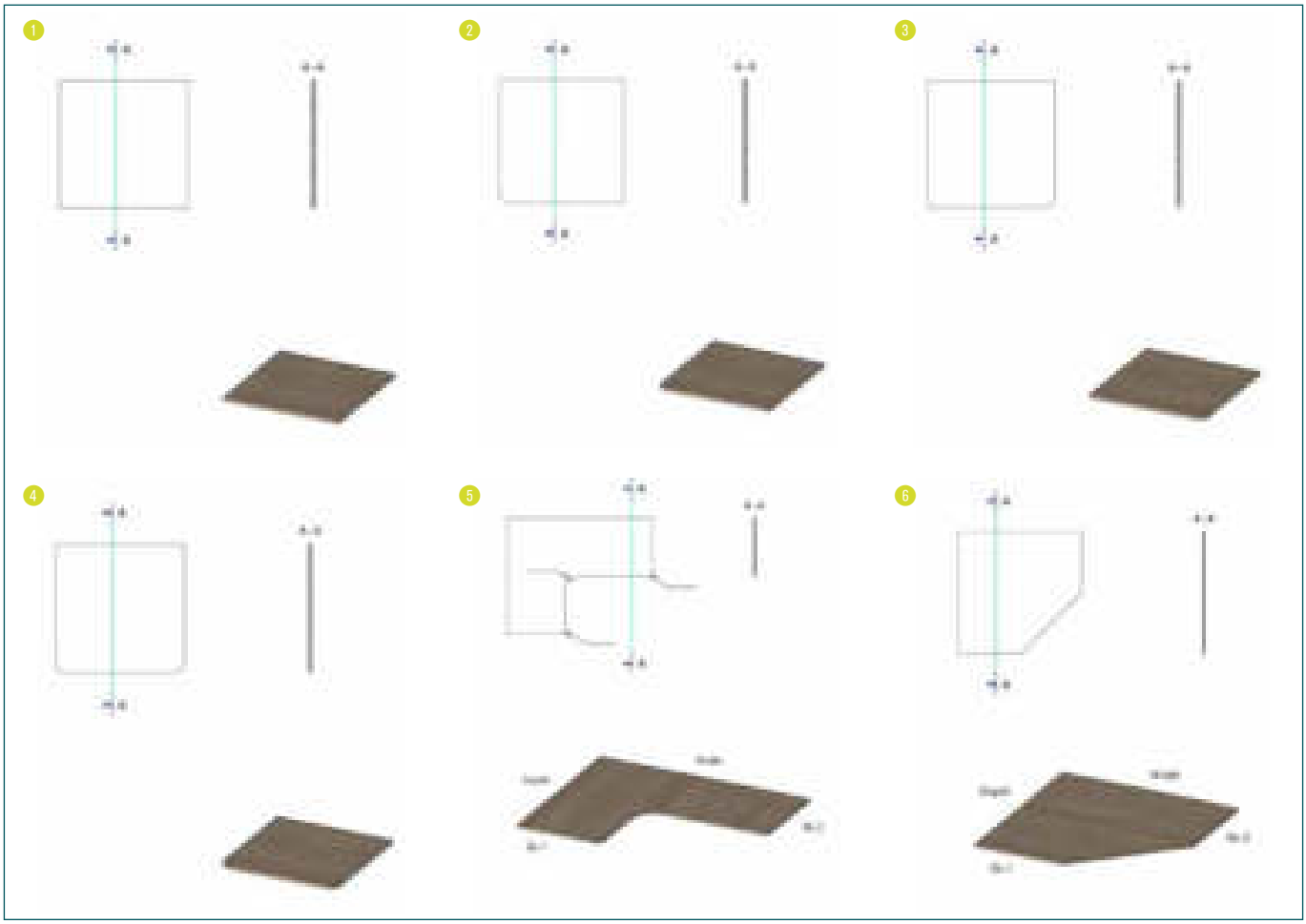
Sideboard for minibar

The sideboard for minibar is designed to house a refrigerator. It consists of a carcass without back panel and has a lockable door. There is a fixed, recessed plinth panel with ventilation grill. Strong decorative brackets (with colored caps) for wall fixing provides the safety on board. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Sideboard for minibar	741	550	560	1.59
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Top panel Type 1–6

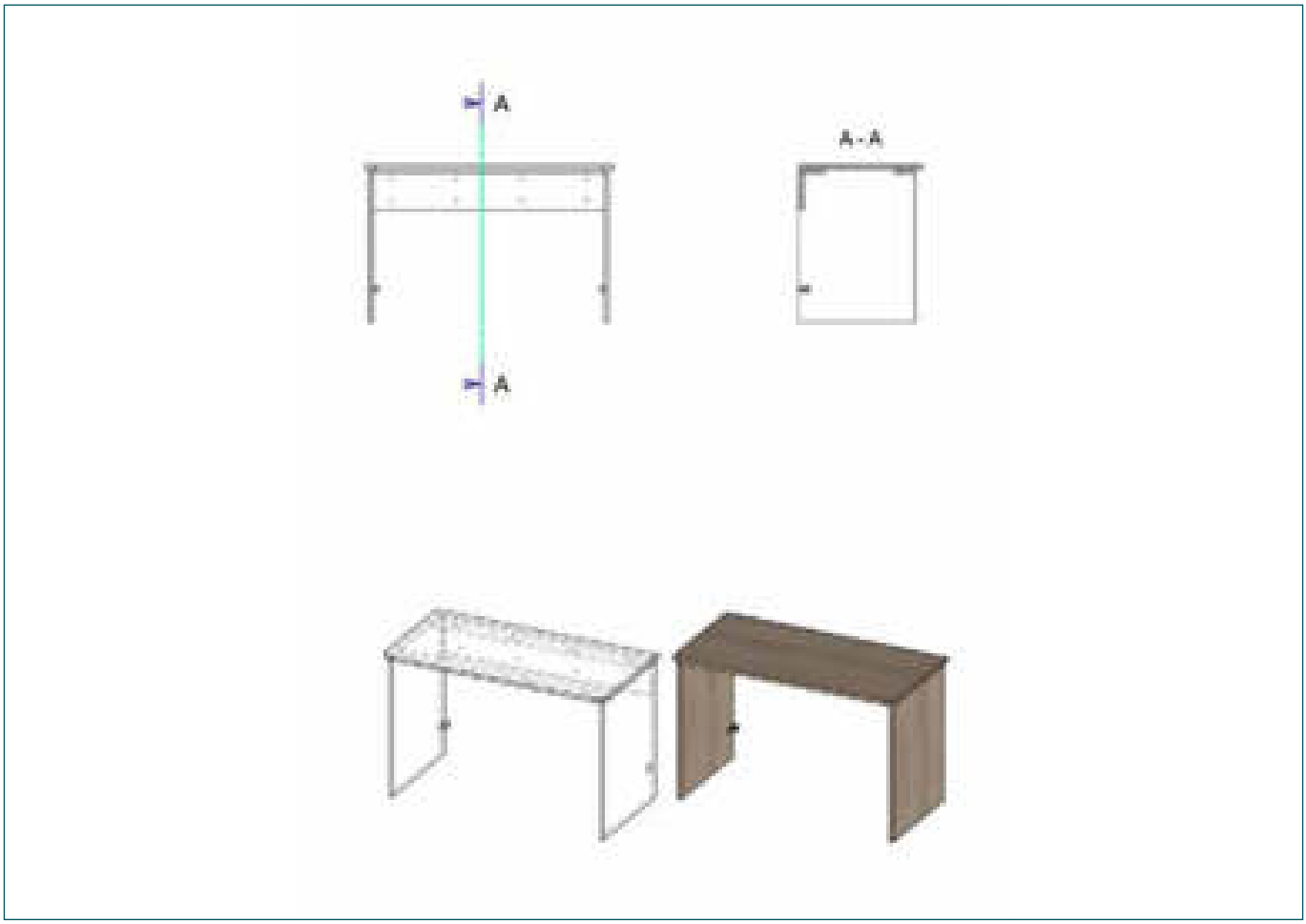


The top panel Type 1–6 are typical tops, which can be combined with parts of other pieces of furniture. Customers can choose from different types according his requirements and needs.

Technical data	Height	Width	Depth (carcass)	m^2
Top panel Type 1	Dimensions are available on request.			
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Desk Type 1

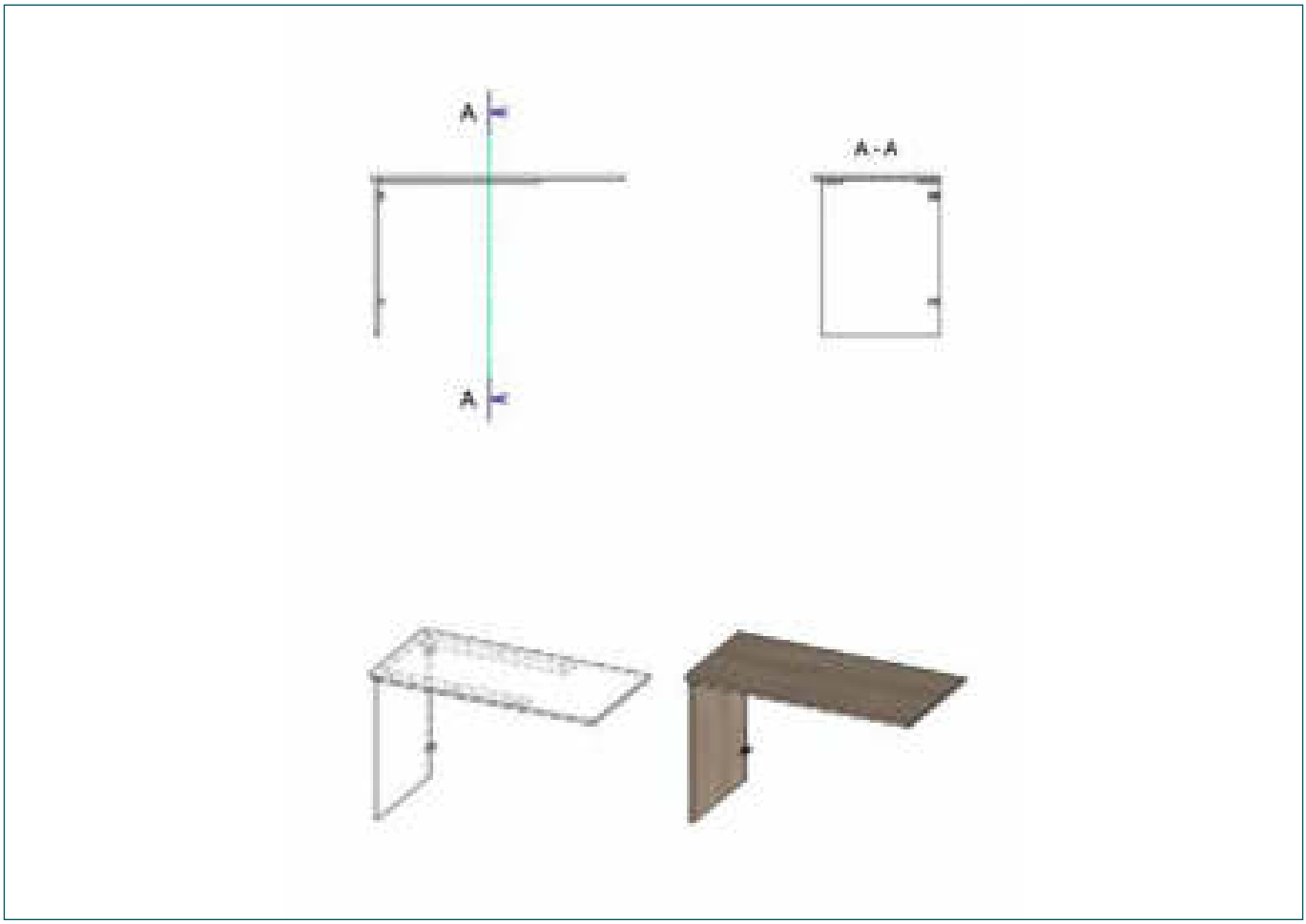


The desk Type 1 consists of a top panel with rounded corners, two side panels and a bar along the back. This desk can be combined with different substructure parts. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Desk Type 1	741	1,200	600	2.00
	741	1,500	600	2.30
	741 – Rw to the floor	1,200	600	2.61
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Desk Type 2

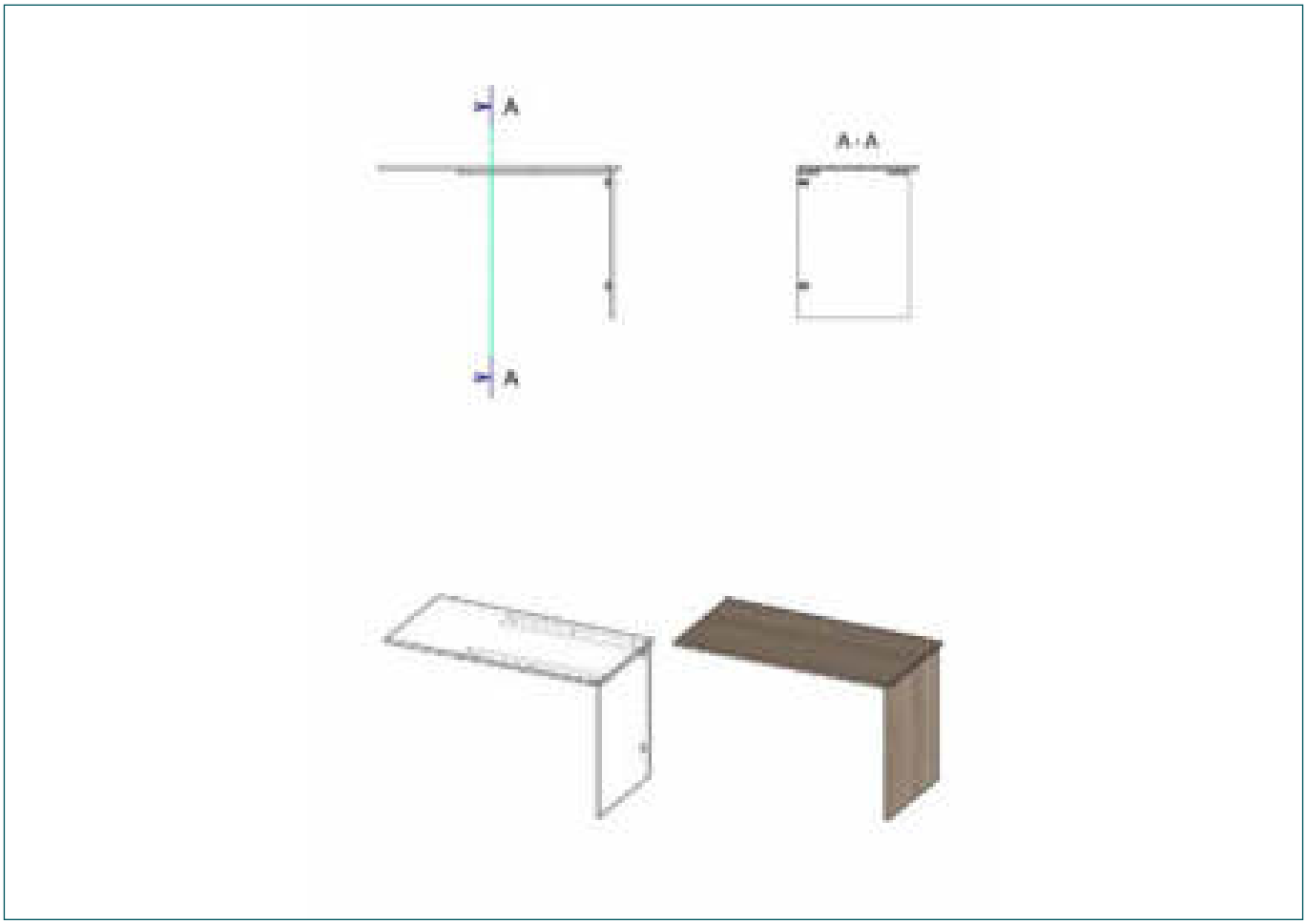


The desk Type 2 is a wall-mounted table with a top and a side panel on the left. The end opposite the side panel is wall-mounted. This desk can be combined with different substructure parts. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Desk Type 2	741	1,200	600	1.21
	741	1,500	600	1.42
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Desk Type 3

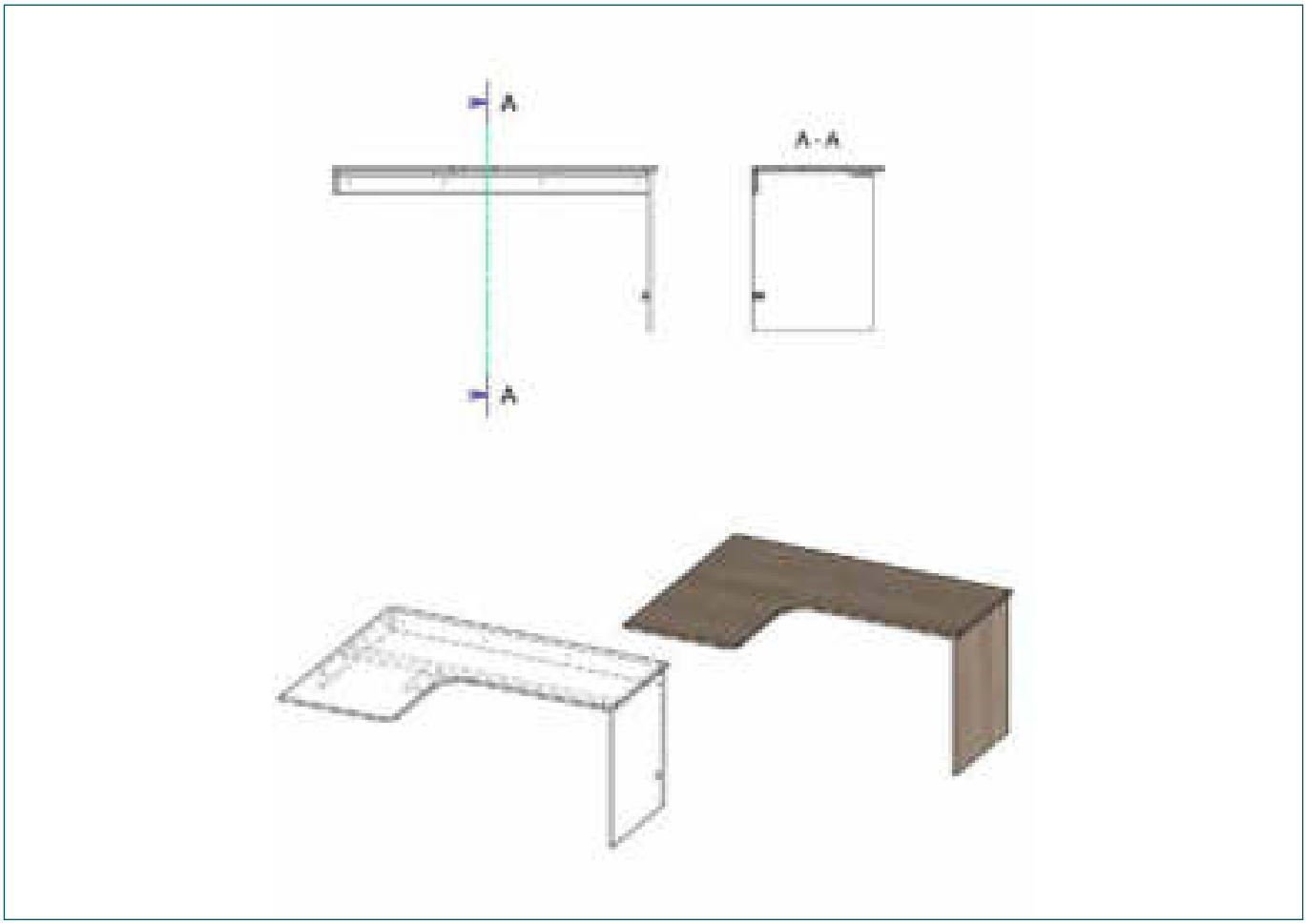


The desk Type 3 is a wall-mounted table and consists of a tabletop with a rounded corner and a side panel on the right. The end opposite the side panel is wall-mounted. This desk can be combined with different substructure parts. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Desk Type 3	741	1,200	600	1.21
	741	1,500	600	1.42
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Desk Type 4

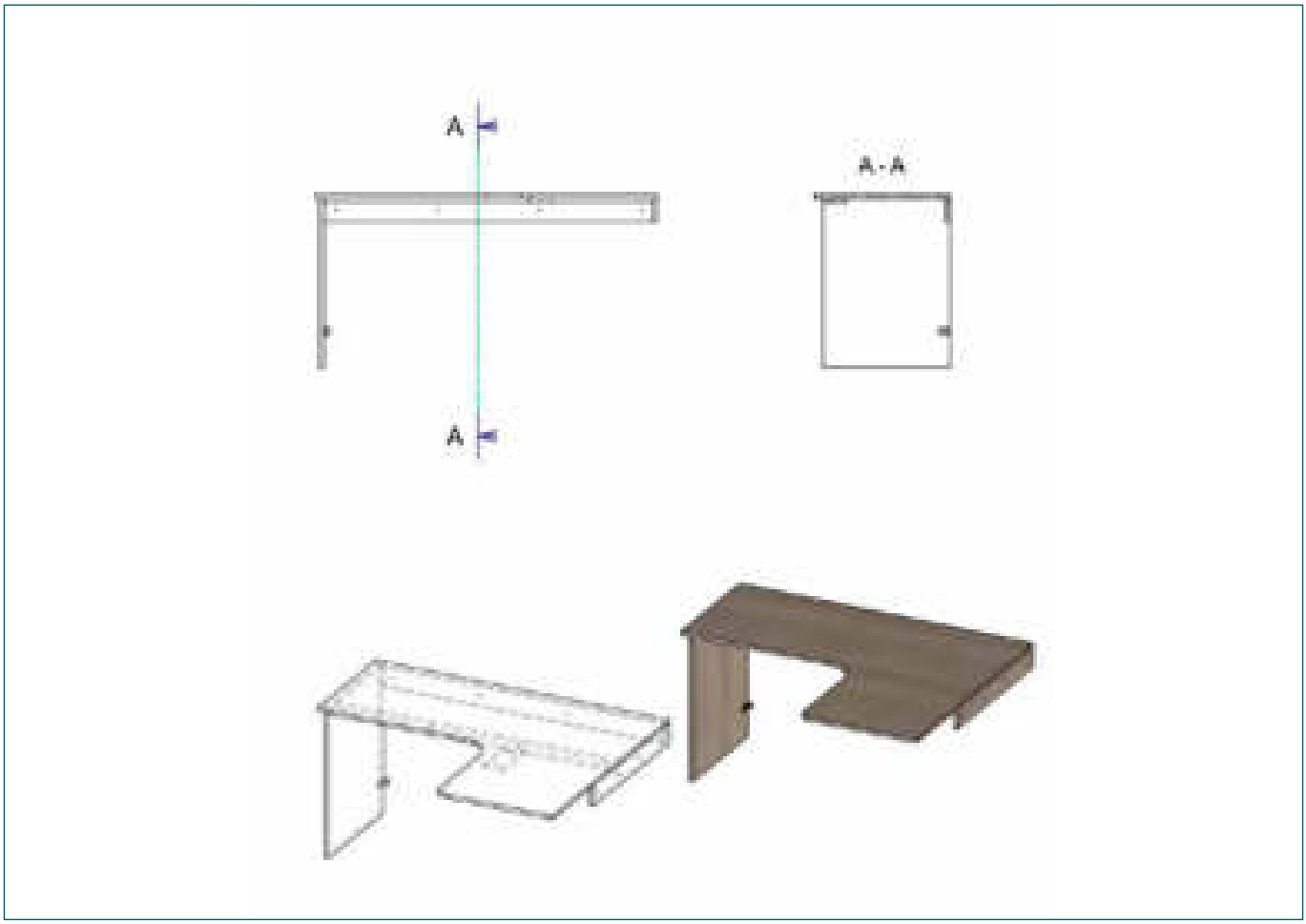


The desk Type 4 is a wall-mounted table with a top panel in L-shape and rounded corners. The desk consists also of a side panel on the right. The end opposite the side panel is wall-mounted. This desk can be combined with different substructure parts. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Desk Type 3	741	1,500	1,200	2.46
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Desk Type 5

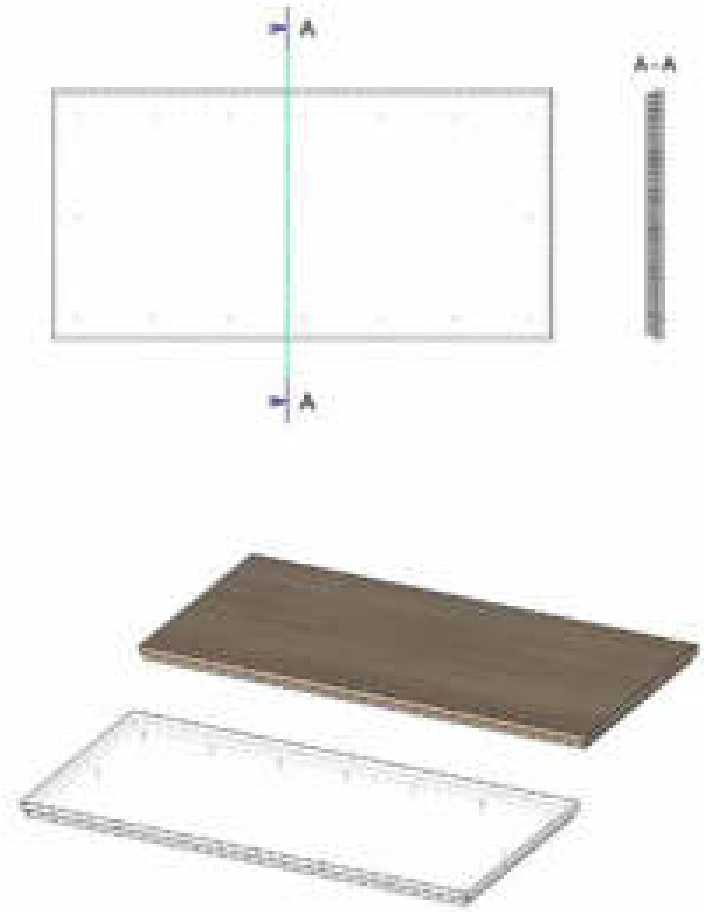


The desk Type 5 is a wall-mounted table with a top panel in L-shape, rounded corners and a bar on the right side for the assembly. The desk consists of a side panel on the left. This desk can be combined with different substructure parts. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Desk Type 3	741	1,500	1,200	2.46
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Tabletop Type 1

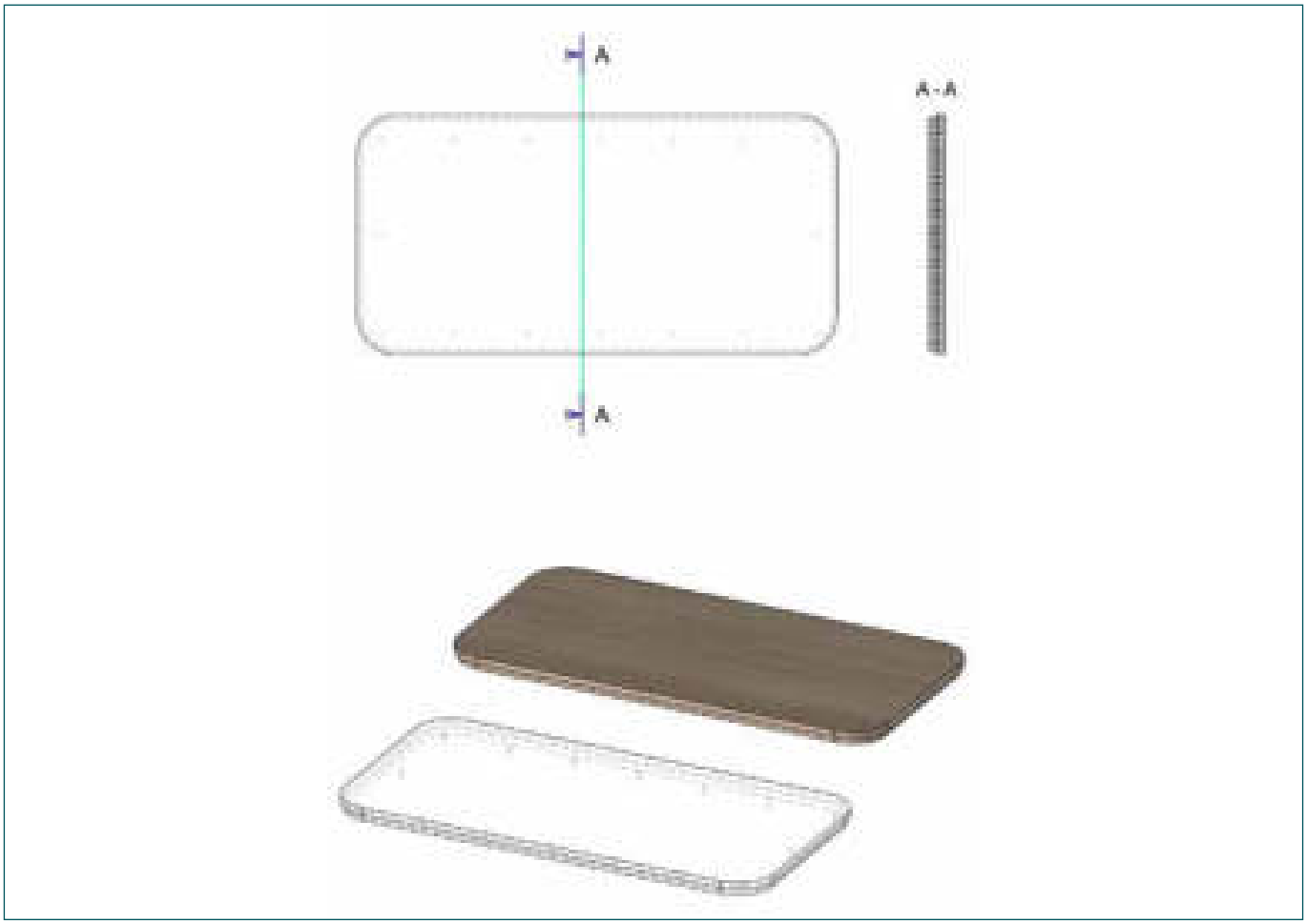


The tabletop Type 1 is rectangular. The tabletops will be combined with steel pillars/legs according customer requests.
A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Top panel Type 1	Dimensions are available on request.			
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Tabletop Type 2

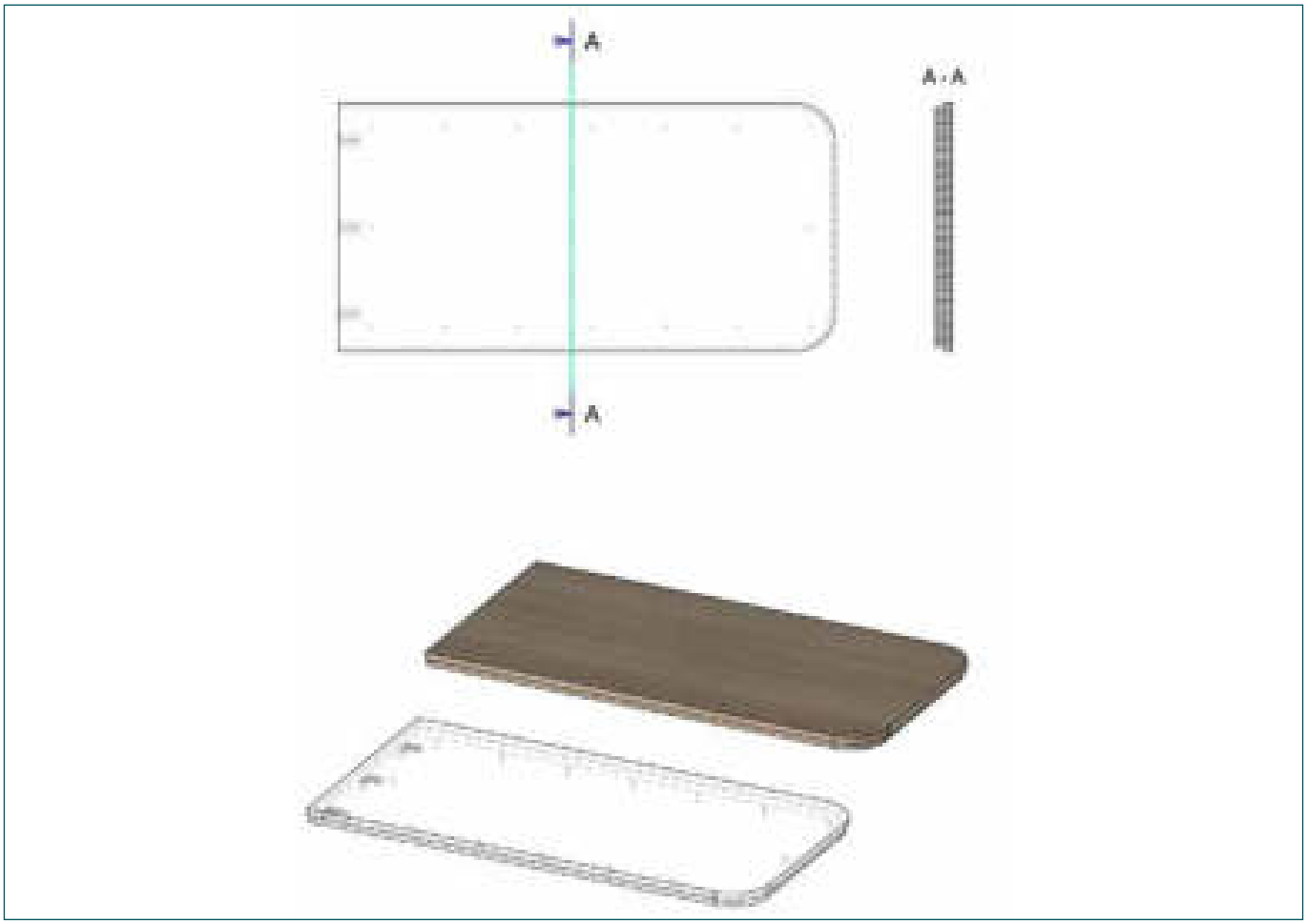


The tabletop Type 2 is rectangular with four rounded edges. The tabletops will be combined with steel pillars/legs according customer requests. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Top panel Type 1	Dimensions are available on request.			
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Tabletop Type 3

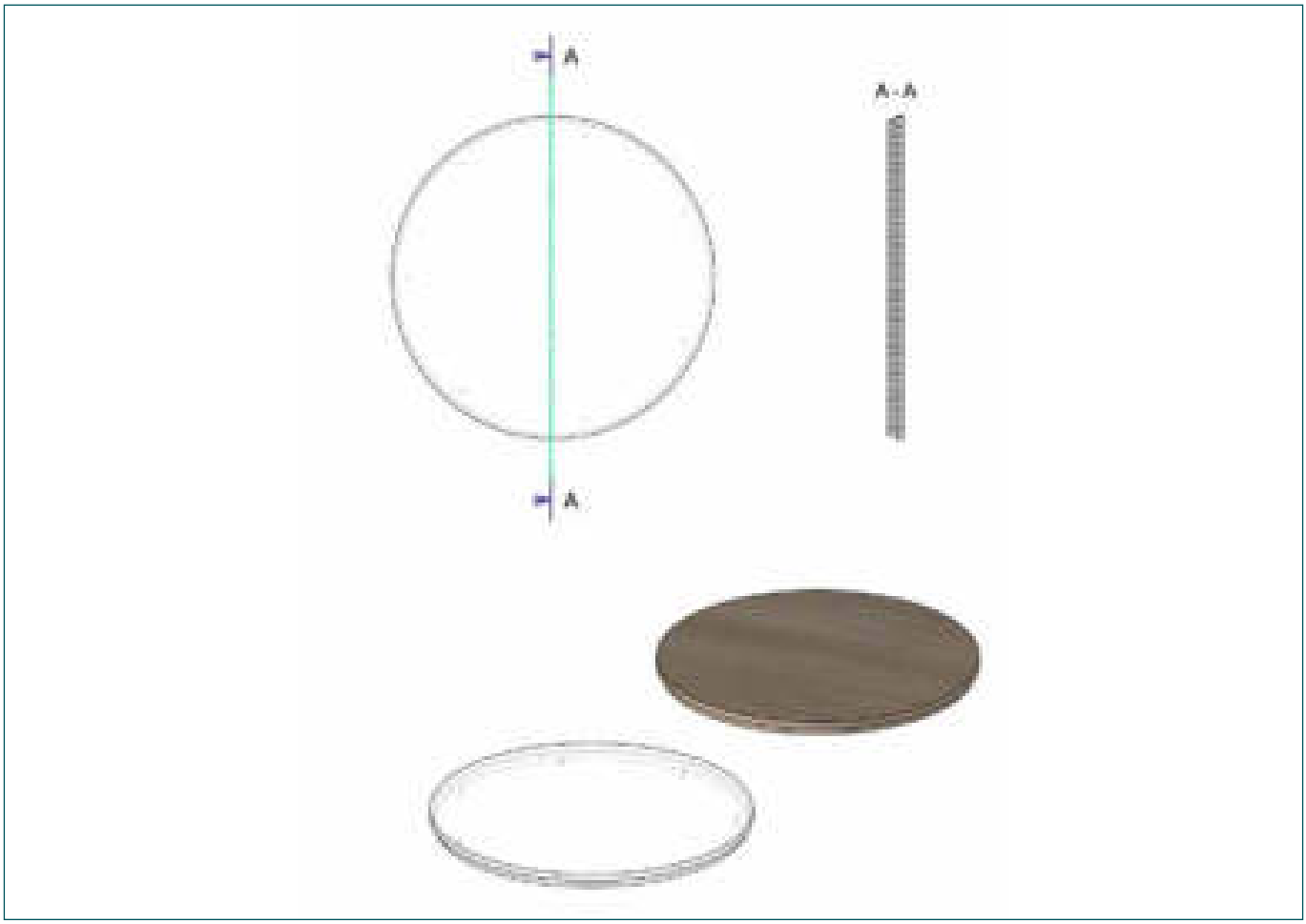


The tabletop Type 3 consists of two rounded corners and will be fixed on cabin wall. The tabletops will be combined with steel pillars/legs according customer requests. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Top panel Type 1	Dimensions are available on request.			
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Tabletop Type 4

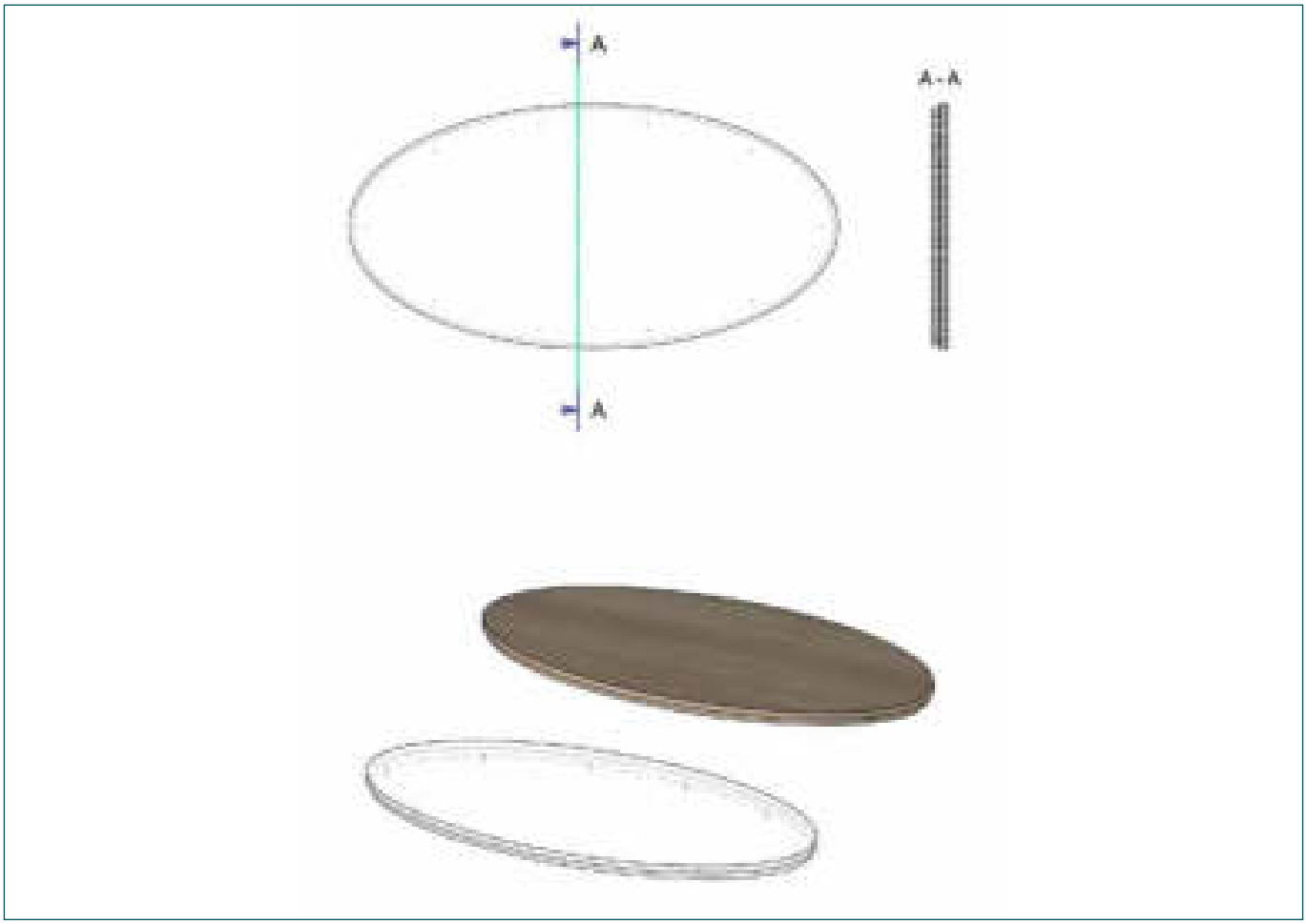


The tabletop Type 4 is circular. The tabletops will be combined with steel pillars/legs according customer requests. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Top panel Type 1	Dimensions are available on request.			
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Tabletop Type 5

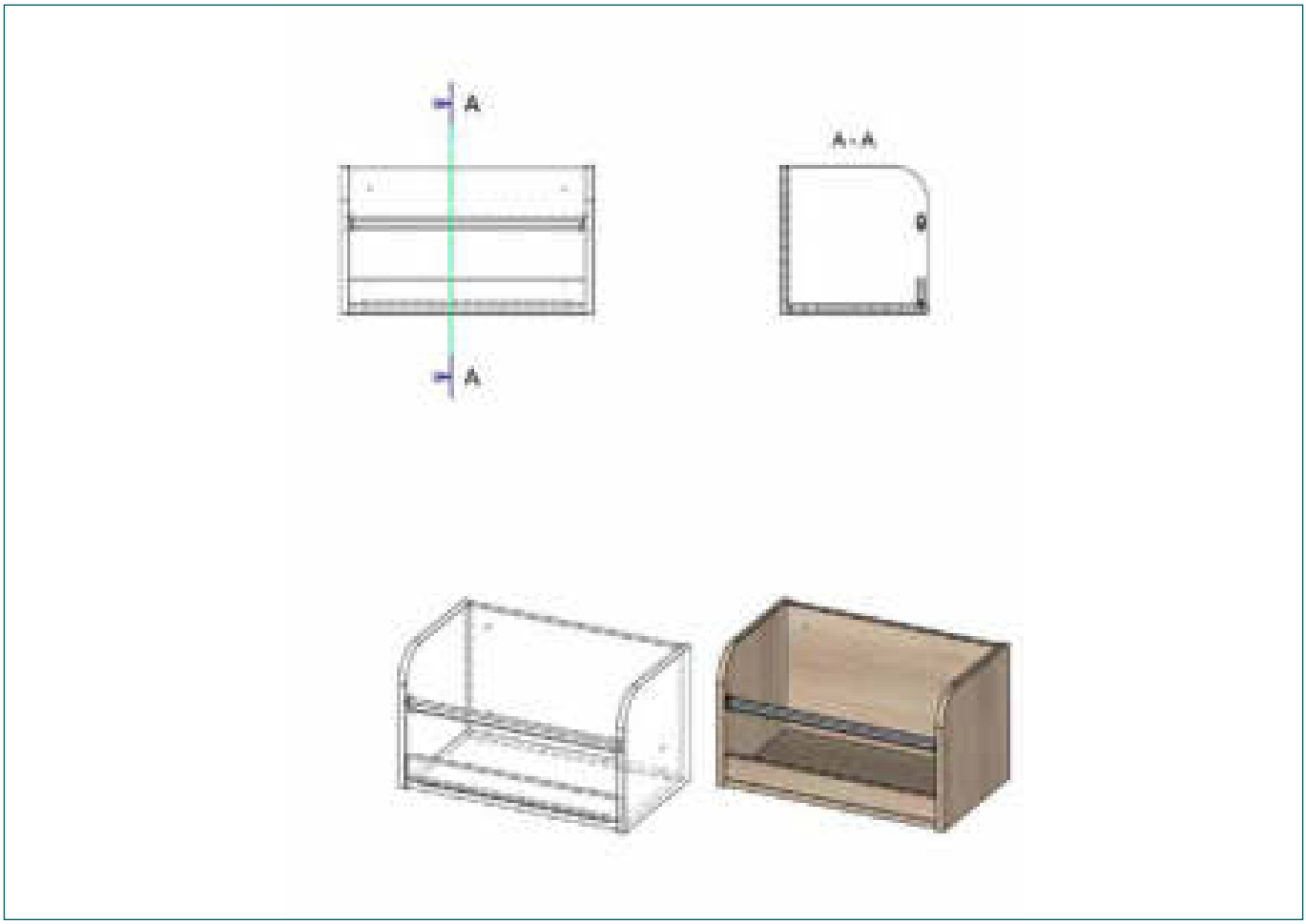


The tabletop Type 5 is oval. The tabletops will be combined with steel pillars/legs according customer requests. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Top panel Type 1	Dimensions are available on request.			
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Bookshelf Type 1

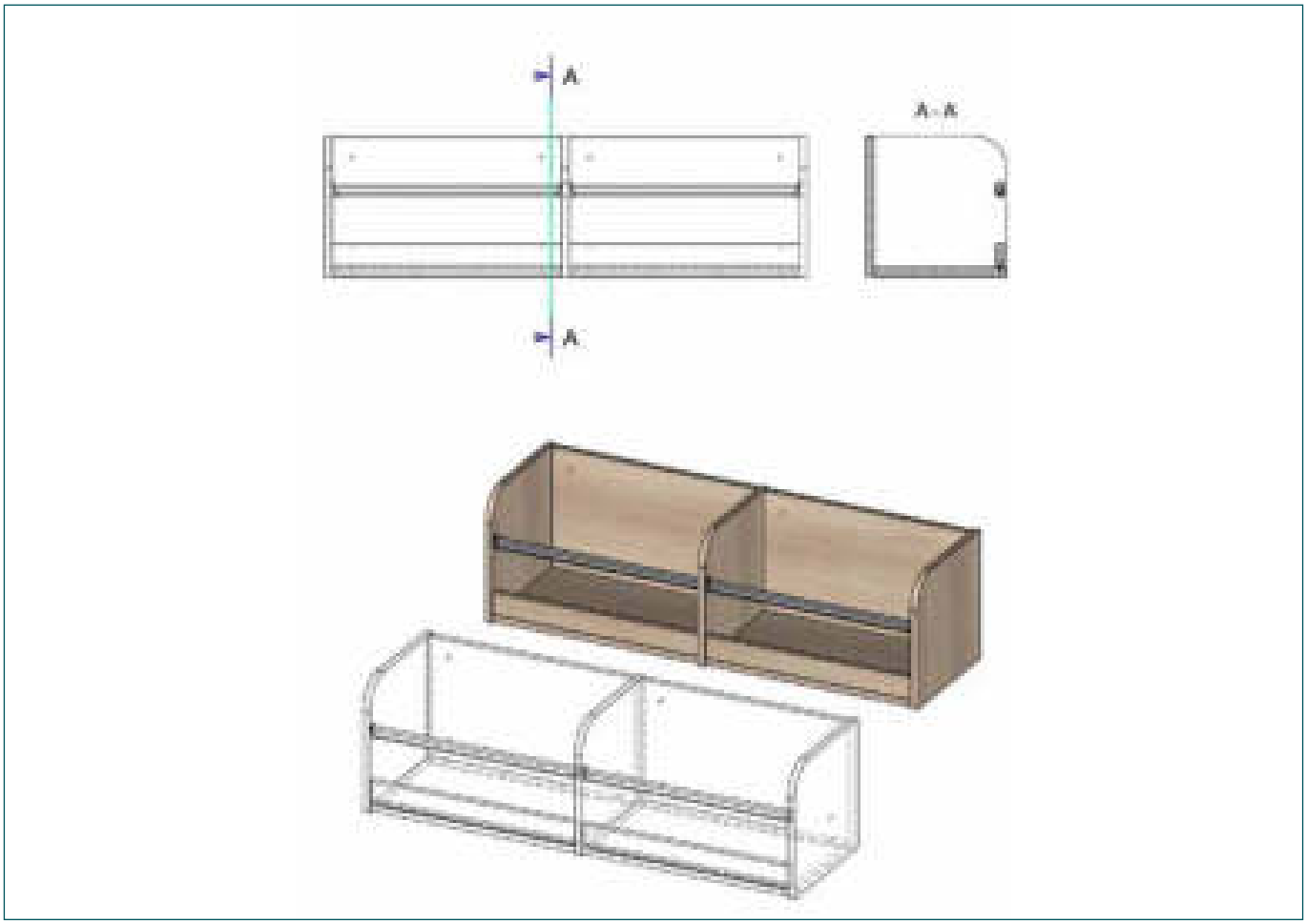


The bookshelf Type 1 consists of a carcass with a back panel. It is open at the top and has a raised edge and rail running along the front. The dimensions are planned for place of file folders. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bookshelf Type 1	350	600	350	0.70
	350	700	350	0.78
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Bookshelf Type 2

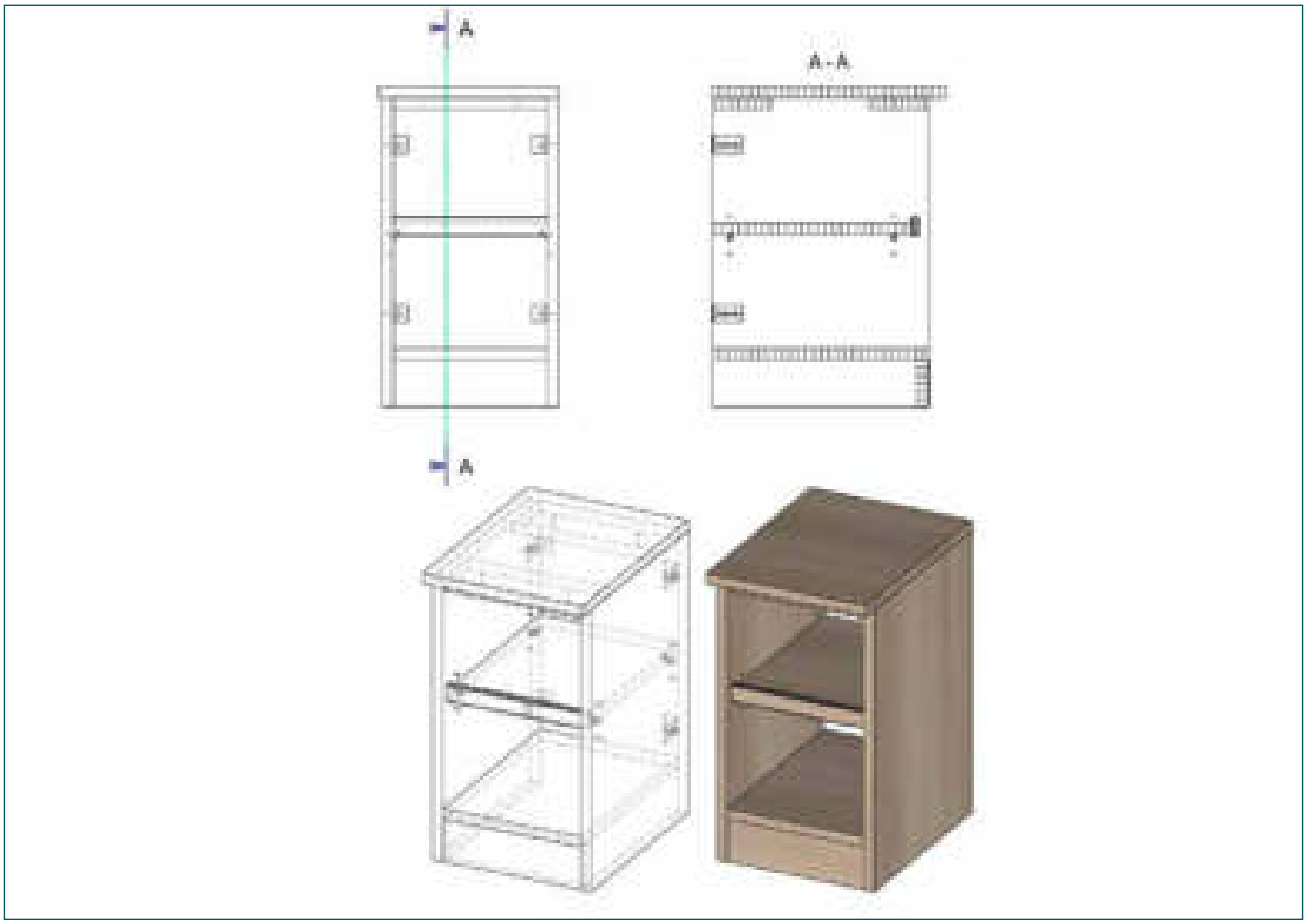


The bookshelf Type 2 consists of a carcass with a back panel. The interior is divided in two by a partition. Each is open at the top and has raised edges and two rails running along the front. The dimensions are planned for place of file folders. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bookshelf Type 2	350	1,200	350	1.30
	350	1,400	350	1.46
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Bedside cabinet Type 1

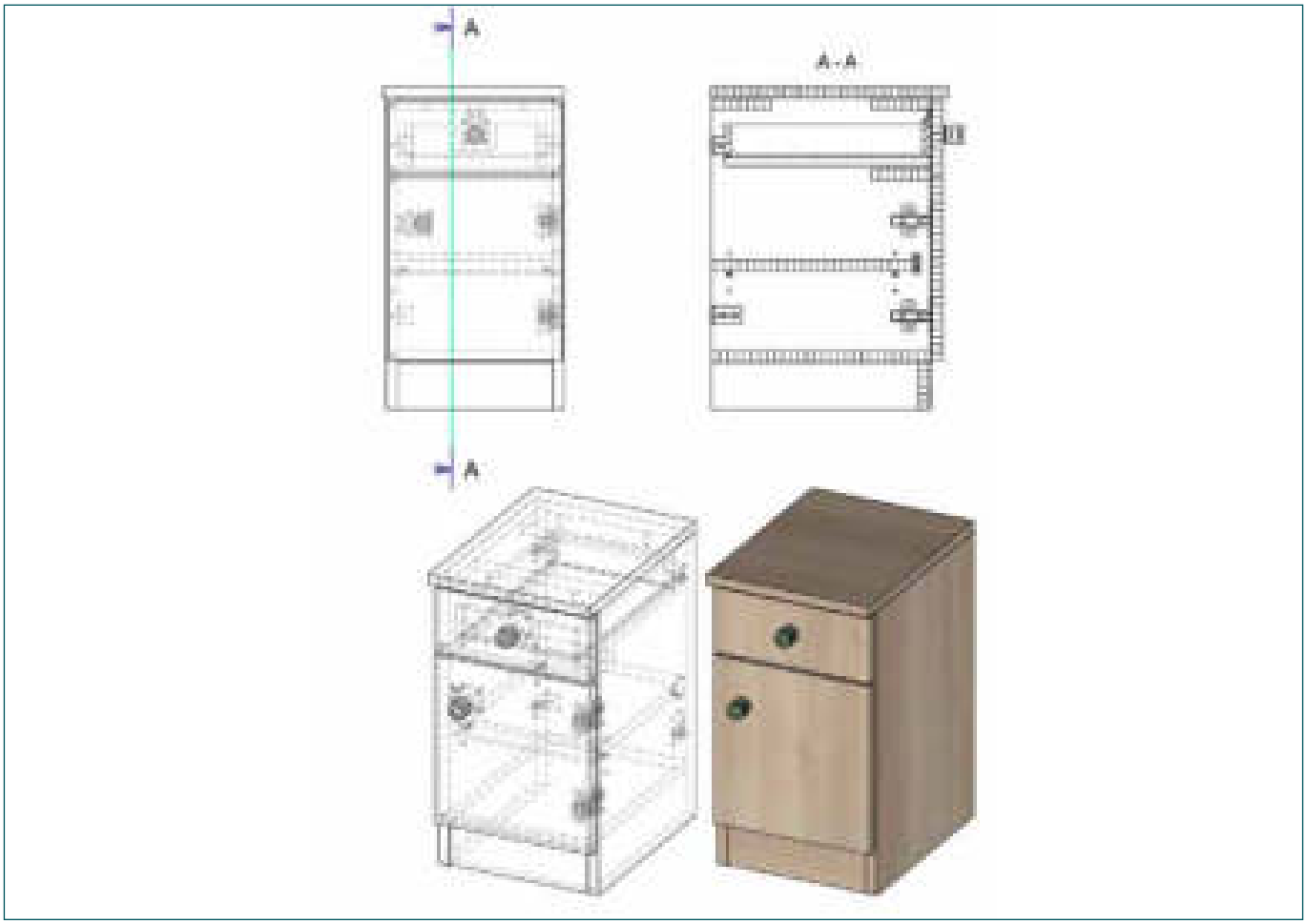


The bedside cabinet Type 1 consists of a top panel and carcass with no back panel. The interior contains an adjustable shelf with a fiddle. There is a fixed, recessed plinth panel. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bedside cabinet Type 1	545	300	370	0.77
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Bedside cabinet Type 2

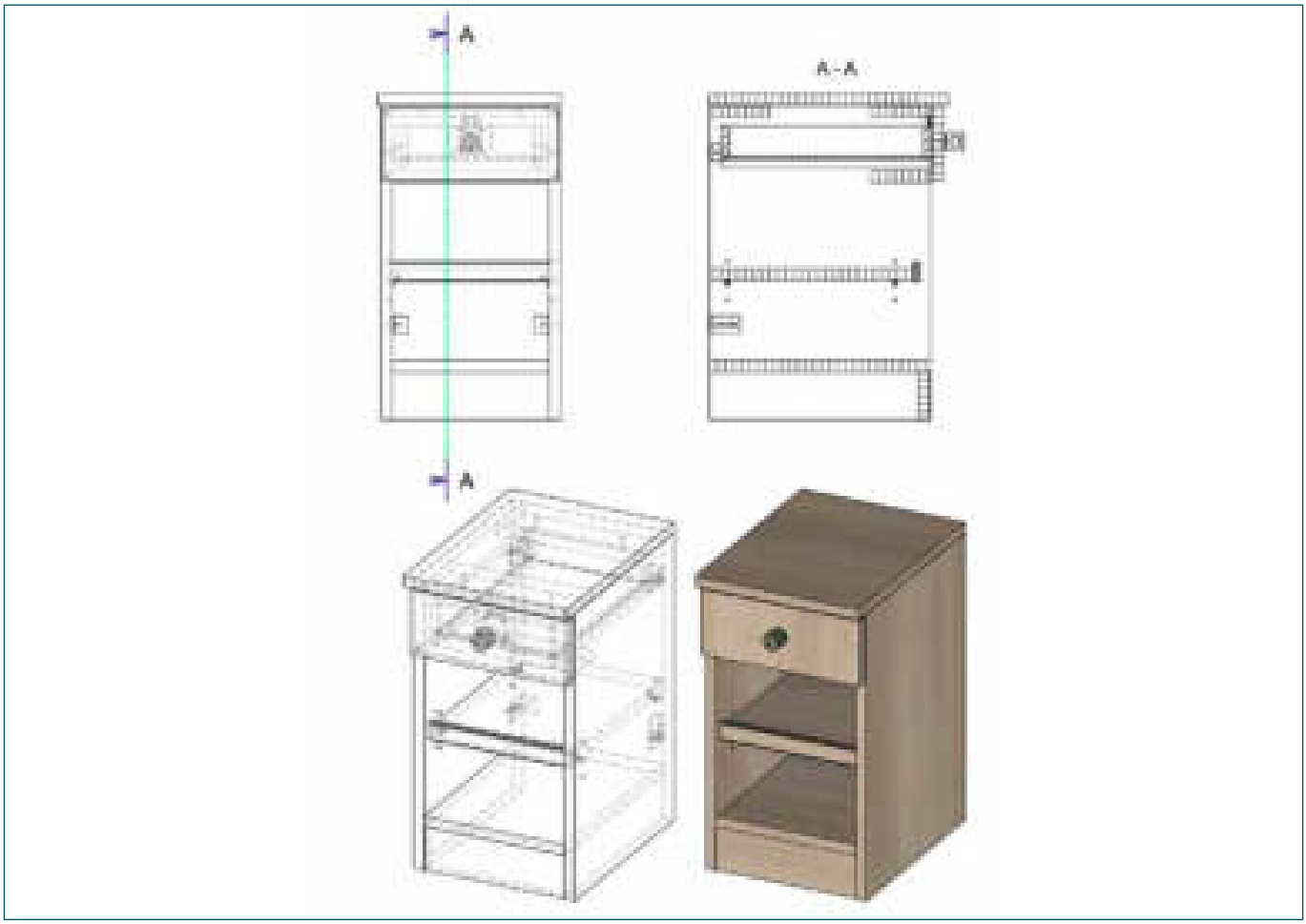


The bedside cabinet Type 2 consists of a top panel and a carcass with no back panel and has a drawer above the door. Both the drawer and the door are lockable. The interior contains an adjustable shelf with fiddle. There is a fixed, recessed plinth panel and slides for drawer boxes in typical modern versions (integrated self-closing). A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bedside cabinet Type 2	545	300	370	0.93
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Bedside cabinet Type 3

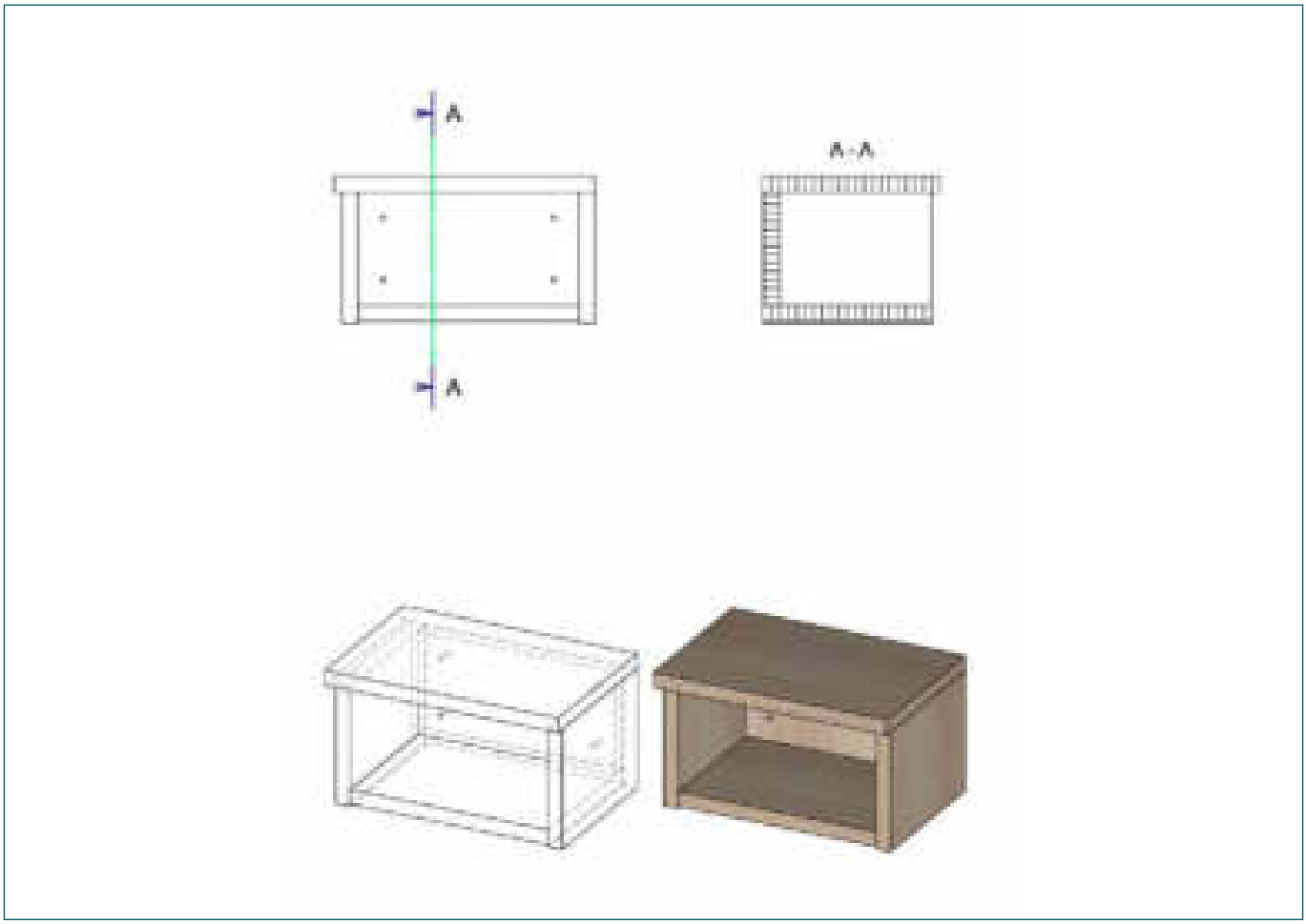


The bedside cabinet Type 3 consists of a top panel and carcass with no back panel and has a lockable drawer. The open-front compartment contains an adjustable shelf with fiddle. There is a fixed, recessed plinth panel and slides for drawer boxes in typical modern versions (integrated self-closing). A choice of board materials and fittings is available

Technical data	Height	Width	Depth (carcass)	m^2
Bedside cabinet Type 3	545	300	370	0.87
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Bedside cabinet Type 4

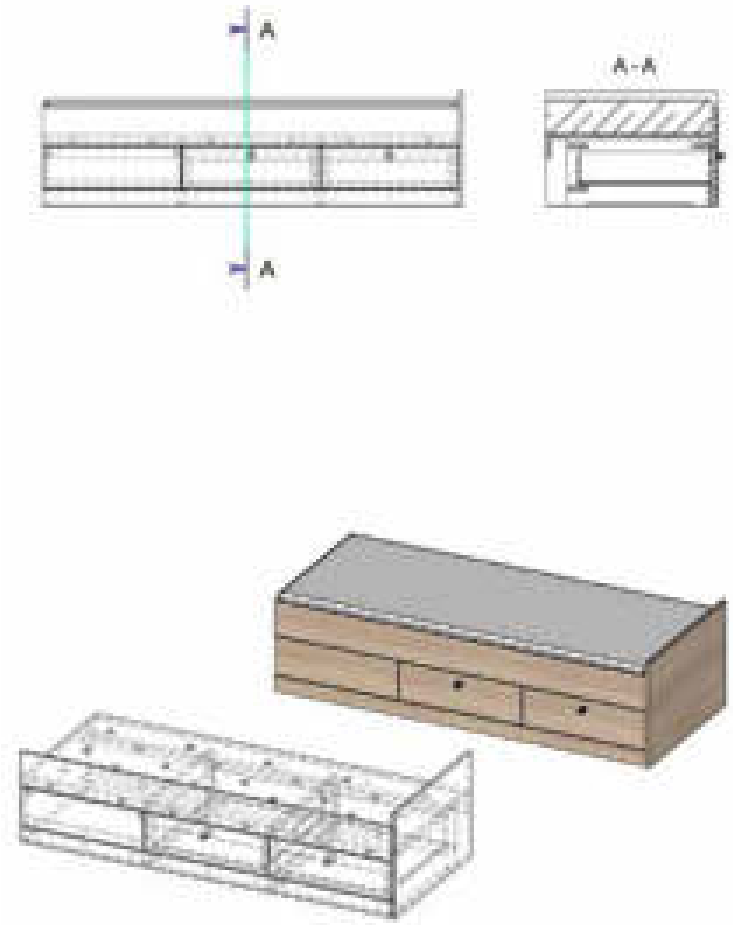


The wall-mounted bedside cabinet Type 4 consists of a top panel and carcass with a back panel and has an open front side. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bedside cabinet Type 4	175	300	200	0.29
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Single bunk Type 1

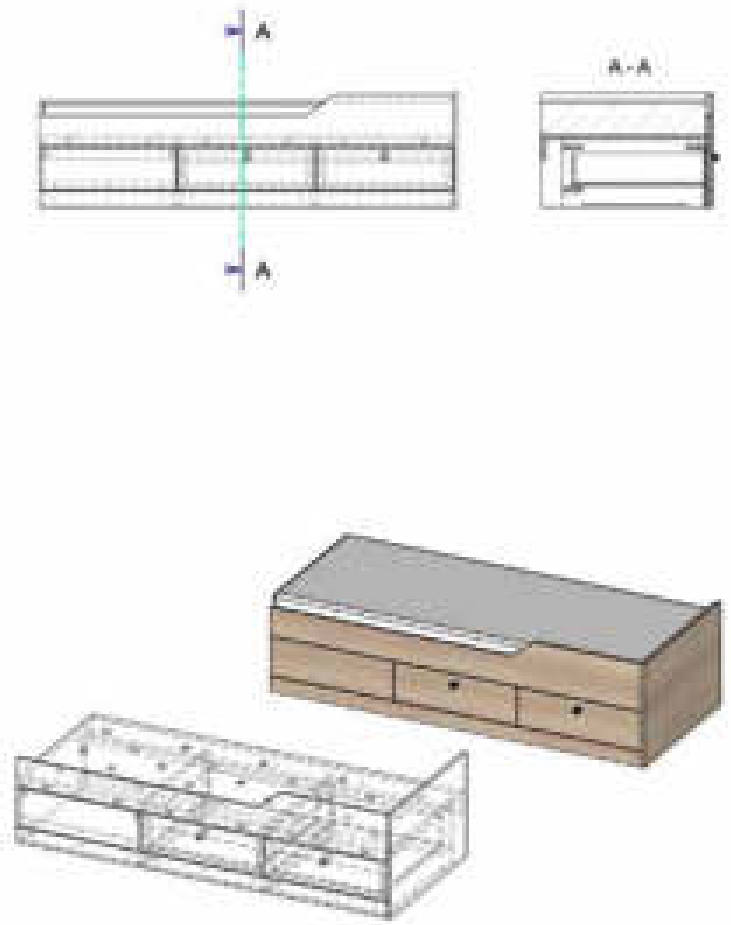


The single bunk Type 1 is wall-mounted in left and right version, a three-part front and a straight panel along the length of the bunk, a fixed plinth panel, slides for drawer boxes in typical modern versions (integrated self-closing), bed base panel with ventilation holes or use of slatted frames. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single bunk Type 1	550	2,000	800	5.75
	550	2,000	900	6.00
	550	2,000	1,000	6.26
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Single bunk Type 2

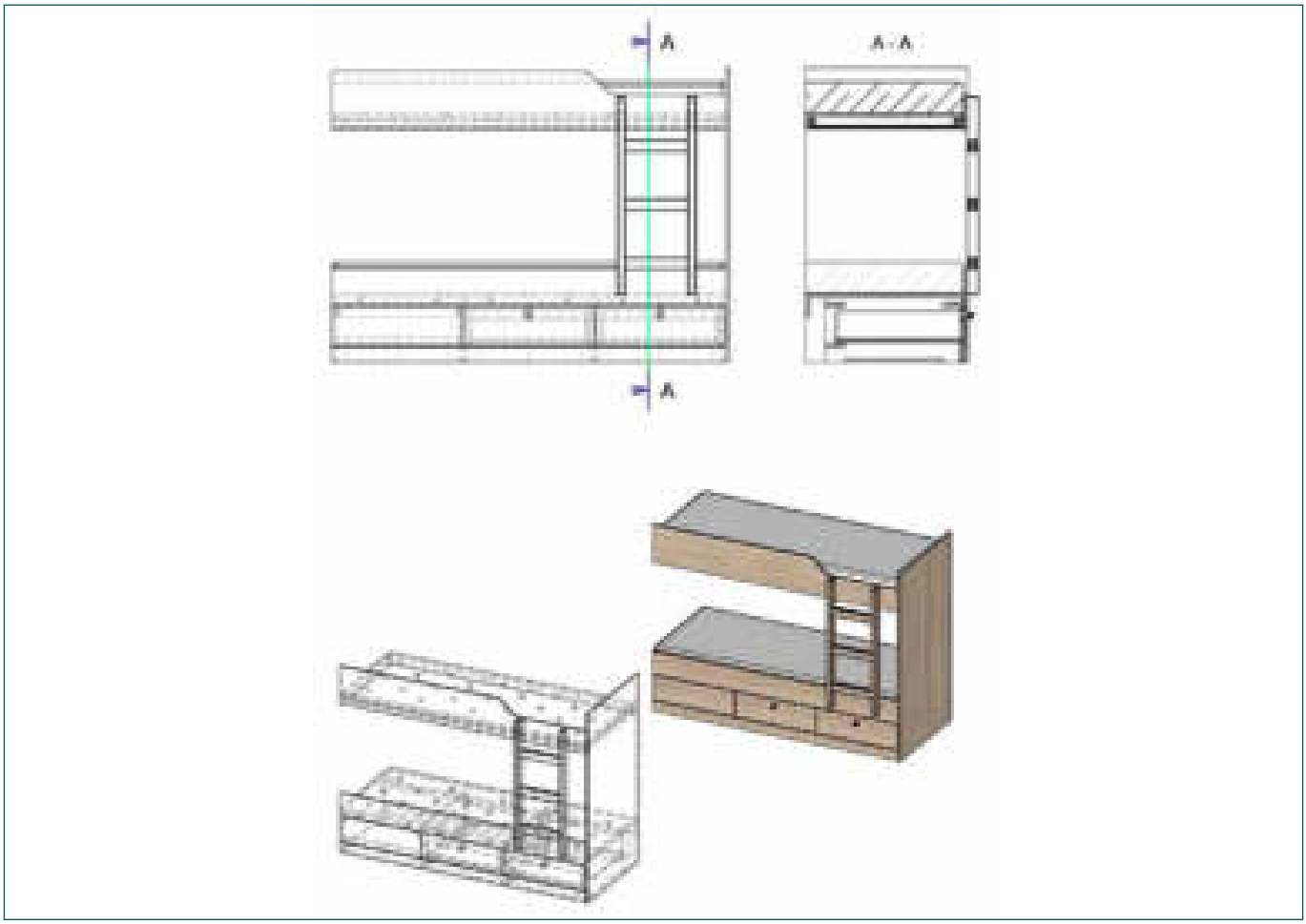


The single bunk Type 2 is wall-mounted and consists of a left and right side, a three-part front and a curved panel along the length of the bunk and a fixed plinth panel, slides for drawer boxes in typical modern versions (integrated self-closing) and bed base panel with ventilation holes or use of slatted frames. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Single bunk Type 2	550	2,000	800	5.75
	550	2,000	900	6.00
	550	2,000	1,000	6.26
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Bunk berth Type 1

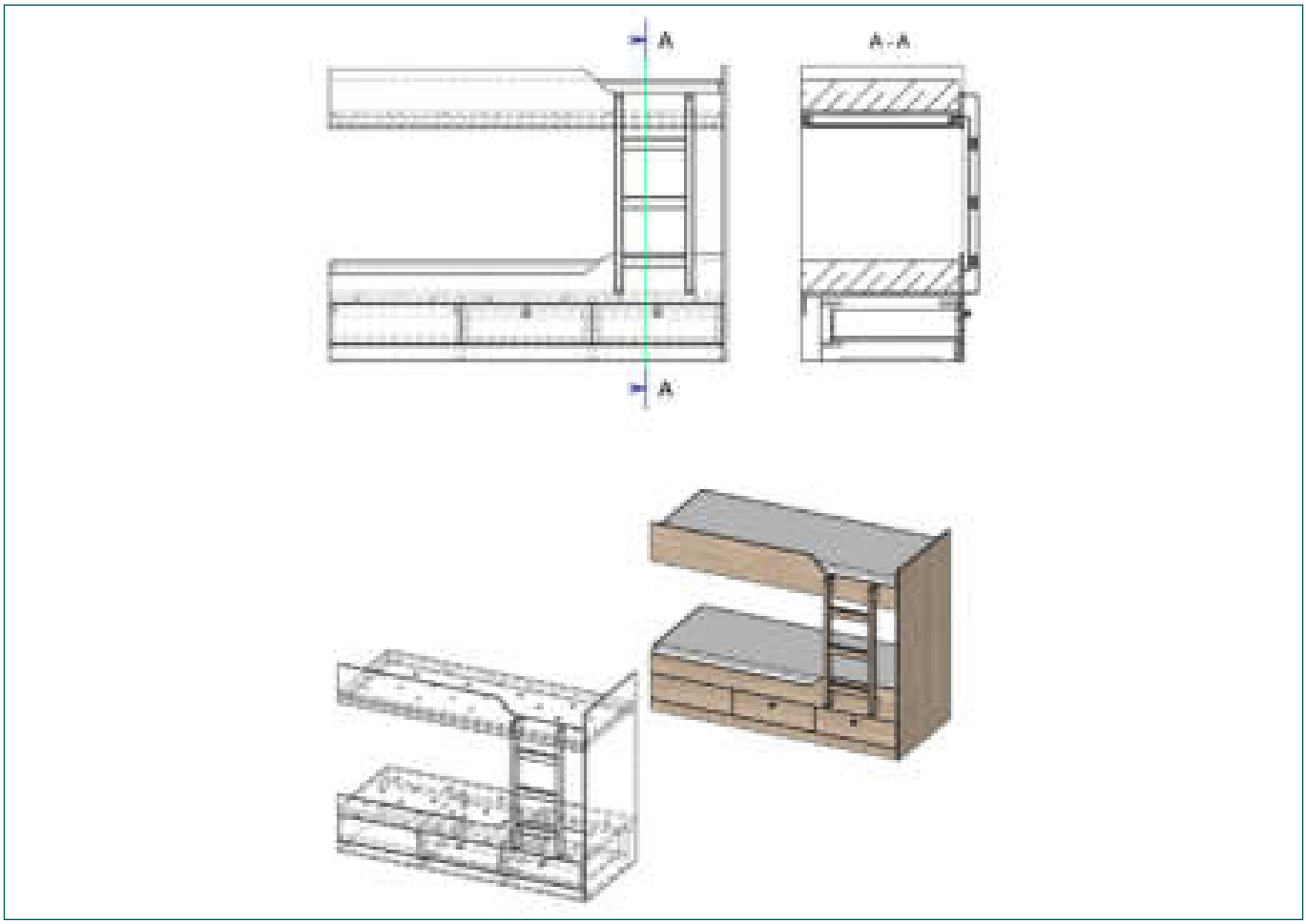


The bunk berth Type 1 is wall-mounted and consists of two left and two right sides, a three-part front and an upper curved panel along the length of the bunk. A post is positioned on the left-hand side and a ladder on the right, a fixed plinth panel, slides for drawer boxes in typical modern versions (integrated self-closing) and bed base panel with ventilation holes or use of slatted frames.
A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bunk berth Type 1	1,500	2,000	800	8.72
	1,500	2,000	900	9.27
	1,500	2,000	1,000	9.82
	2,100	2,000	800	9.21
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Bunk berth Type 2

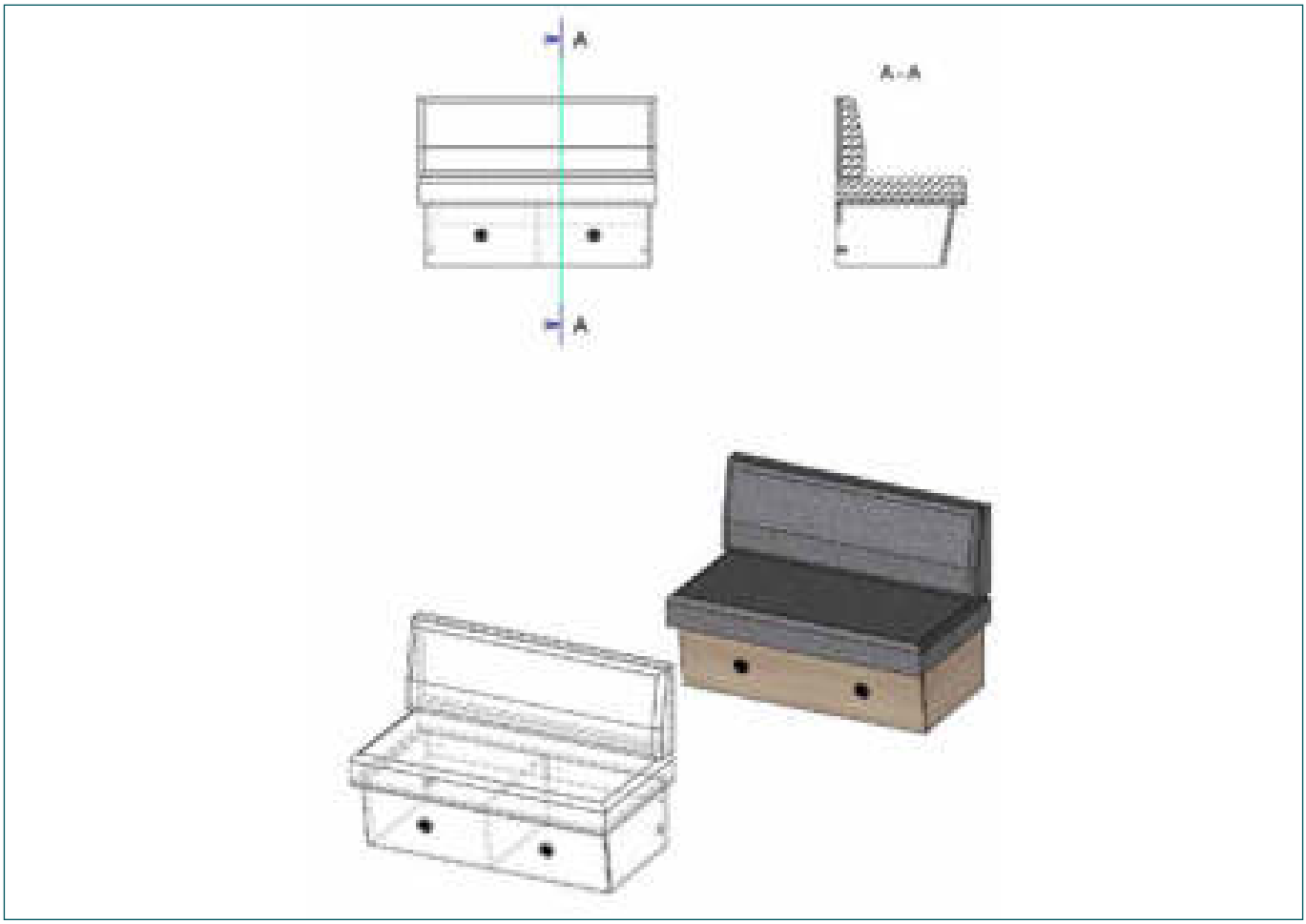


The bunk berth Type 2 is wall-mounted and consists of two left and two right sides, a three-part front and an upper curved panel along the length of the bunk. A post is positioned on the left-hand side and a ladder on the right, slides for drawer boxes in typical modern versions (integrated self-closing), a fixed plinth panel and bed base panel with ventilation holes or use of slatted frames. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Bunk berth Type 2	1,500	2,000	800	8.86
	1,500	2,000	900	9.41
	1,500	2,000	1,000	9.96
	2,100	2,000	800	9.35
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			
Drawer	Wooden drawer: The wooden drawer comprises four 13 mm-thick edges and is made of steamed beech. The base of the drawer is made of 5 mm-thick beech veneer plywood. The edge joints are dovetailed.		Chipboard drawer: The drawer comprises four 16 mm-thick edges and is made of chipboard. The base of the drawer is made of 5 mm-thick white HDF board. The edge joints are dovetailed.	

Standard furniture

Sofa Type 1

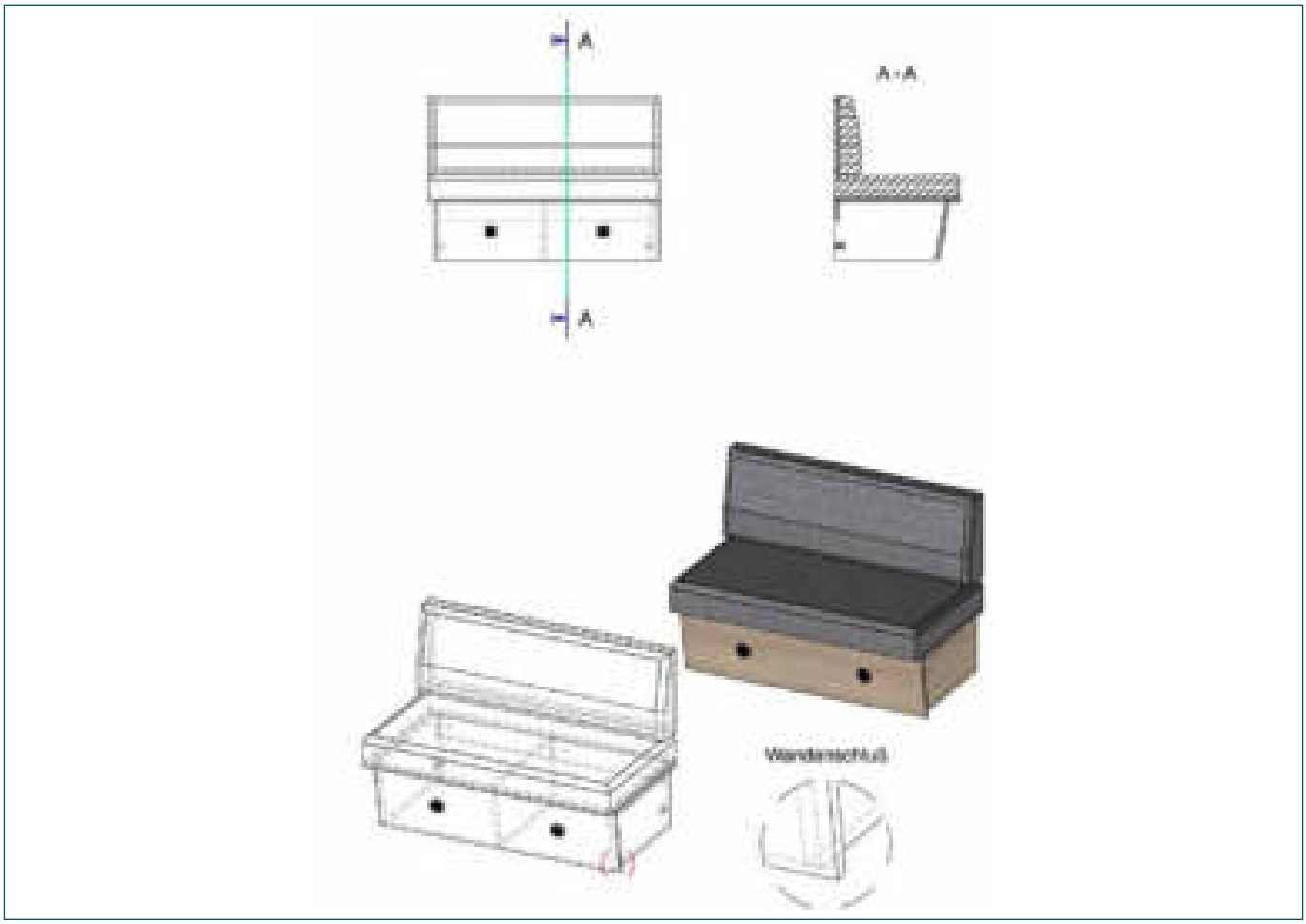


The sofa Type 1 consists of a front with ventilation grills, a substructure, and backrest and seat upholstery. The seat upholstery can be removed to access the storage compartment below. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Sofa Type 1	850	1,200	650	2.25
	850	1,800	650	3.29
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Sofa Type 2



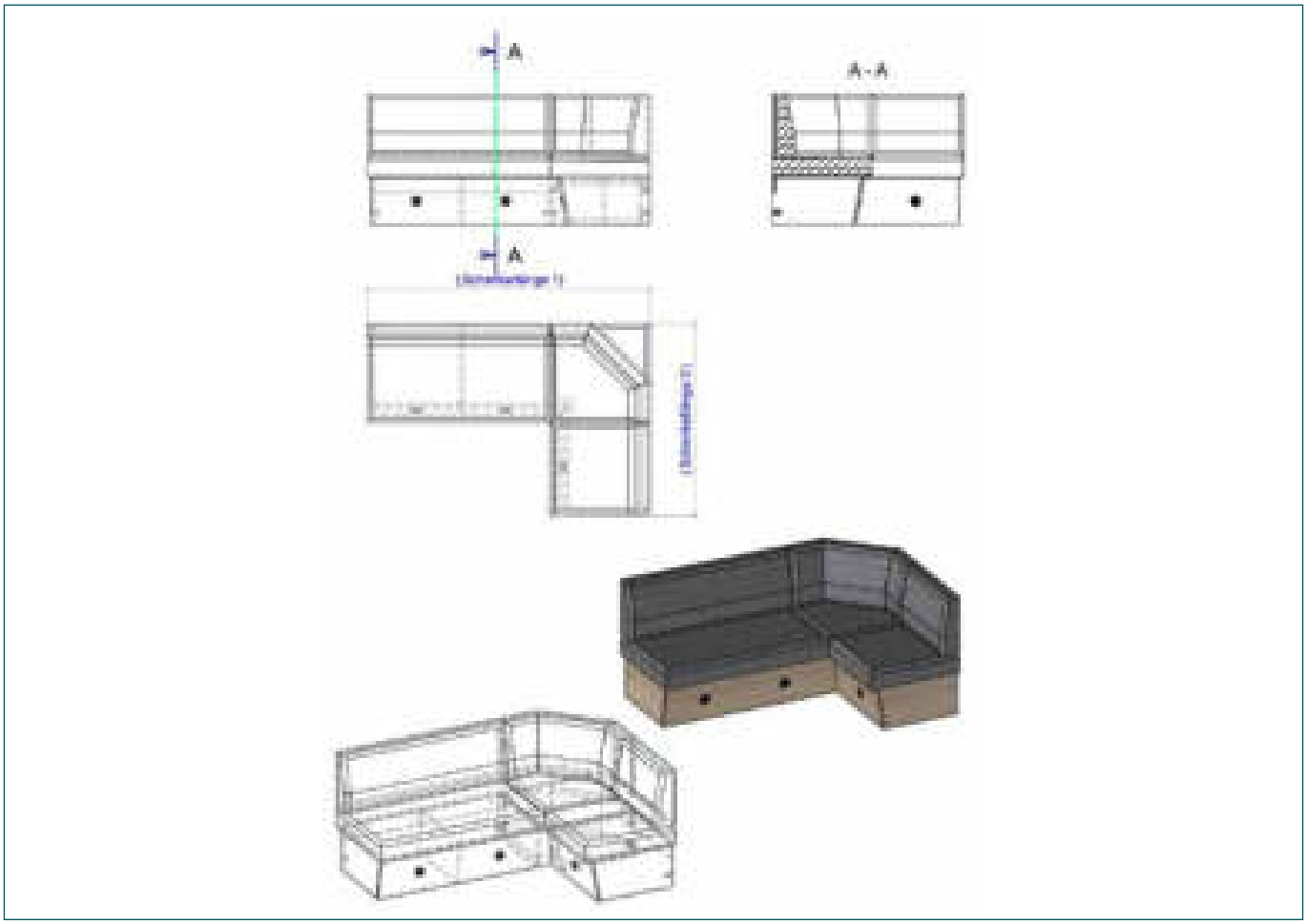
The sofa Type 2 consists of a front with 2 ventilation grills, a substructure with a wall connection, and upholstered backrest and seat.

The seat upholstery can be removed to access the storage compartment below. A choice of board materials and fittings is available.

Technical data	Height	Width	Depth (carcass)	m^2
Sofa Type 2	850	1,200	650	2.27
	850	1,800	650	3.32
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.			
Sheet material	Chipboard/Blockboard			

Standard furniture

Sofa Type 3



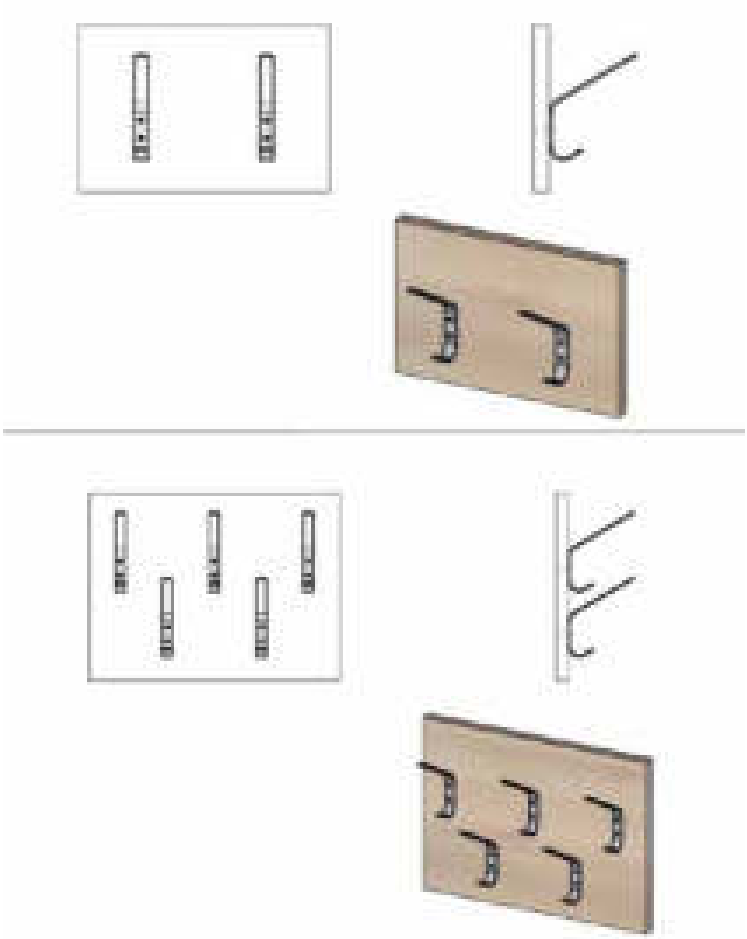
The sofa Type 3 consists of a front with 3 ventilation grills, a substructure with a wall connection, and upholstered backrest and seat.

The seat upholstery can be removed to access the storage compartment below. A choice of board materials and fittings is available.

Technical data	Height	Side length 1	Side length 2	Depth (carcass)	m^2
Sofa Type 3	850	1,850	1,250	650	5.77
	850	2,450	1,250	650	6.65
Finishes	Light maple, mahogany, cherry/flowery grain, light beech, white, ivory, pearl gray is available. Further finishes are on request.				
Sheet material	Chipboard/Blockboard				

Standard furniture

Accessories – hook-board



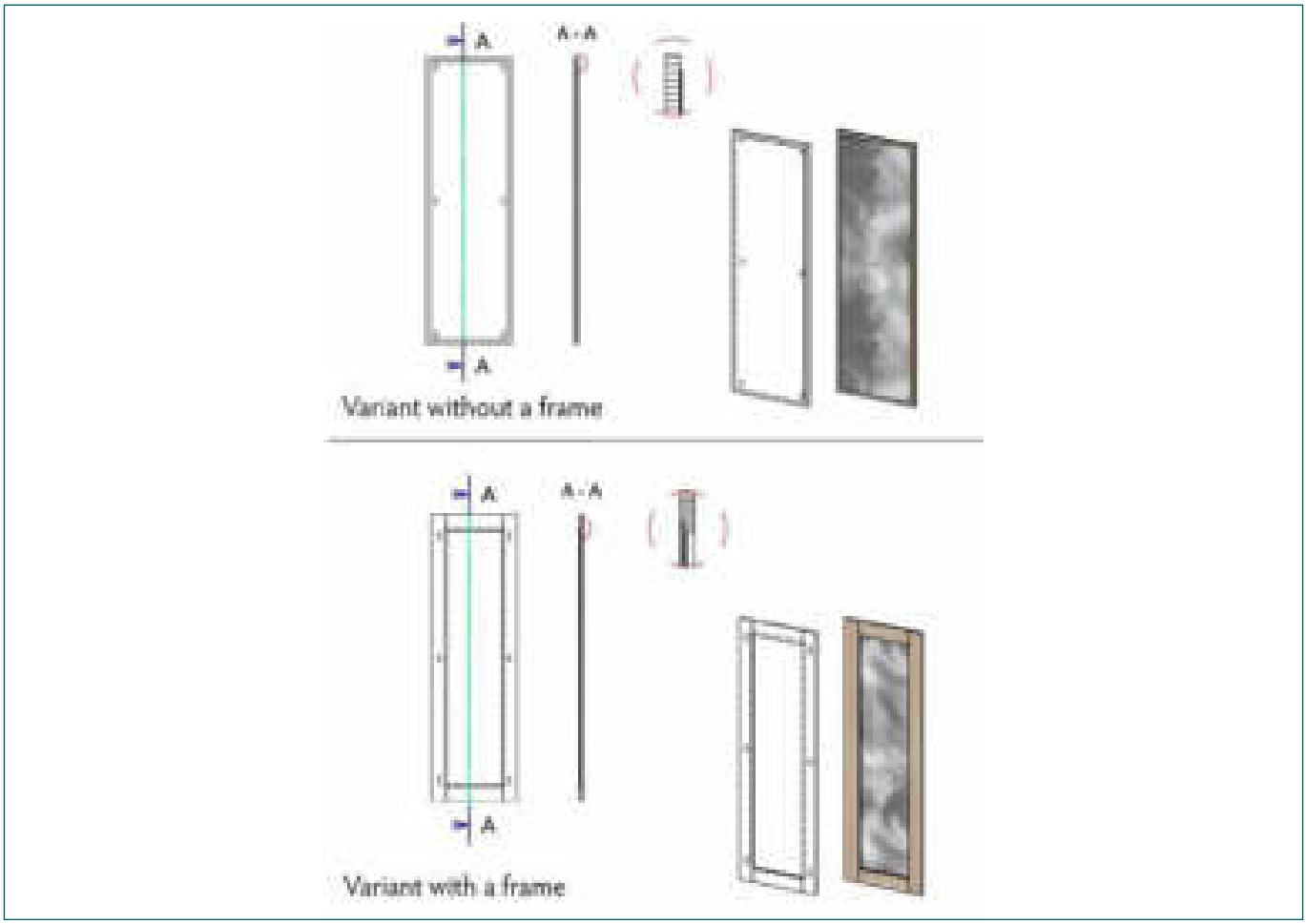
The simple hook-board consists of a back panel and two hooks. A choice of board materials and fittings is available.

The bigger version consists of a back panel and five hooks, which are staggered installed. A choice of board materials and fittings is available.

Technical data	Height	Width	m^2
Coatrack simple	200	300	0.06
Coatrack staggered	300	400	0.12

Standard furniture

Accessories – wall mirror with or without a frame



The wall mirror without a frame is glued on a decorative board of your choice. A wide border of 1 cm is visible around the edge. A choice of board materials and fittings is available.

The wall mirror with a frame is glued on a melamine board and is sitting inside of a decorative frame of your choice. Further materials and fittings are available.

Technical data	Height	Width	m^2
Wall mirror without a frame	1,500	450	0.68
Wall mirror with a frame	1,500	450	0.32 (0.44 Rw-plate)

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