

HORIZONTAL DESKTOP AND WORKTOPS

Product

Trespa TopLab^{PLUS}, Trespa TopLab^{ECO-FIBRE} or Trespa Athlon (Crystal surface texture).

Thickness

≥ 13 mm (1/2 in)

Fixing

Fix Trespa with inserts or thread cutting screws. The maximum drill hole depth equals the panel thickness minus 3 mm (1/8 in). The panel drill hole diameter must be in accordance with the instructions of the supplier of the fixing means. Drill holes in the support construction must allow the panels to move: fit slotted holes or allow diameter of the drill holes to equal the screw diameter plus 3 mm (1/8 in). If more than two panels are joined together (e.g. for long wall benches), slotted holes of sufficient length must always be made in the support construction.

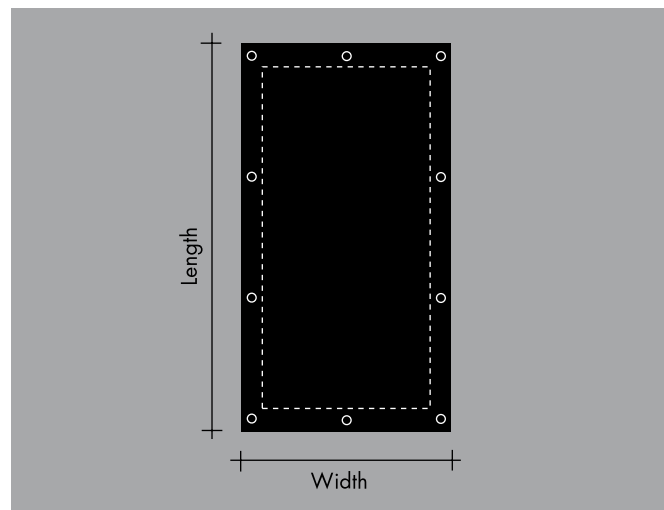
Support construction

The support construction must be sufficiently strong and rigid to withstand bending as a result of the load applied on top of the panel. If any other fittings are provided underneath the panel (drawers, boxes, pipes), then the support construction must be dimensioned accordingly.

Maximum support and fixing intervals

Desktops and worktops supported at the edges.

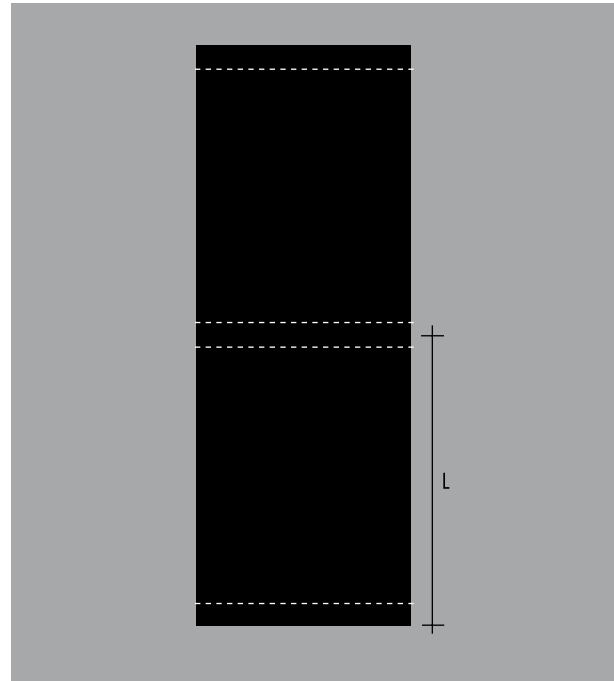
Panel thickness	Panel width	Maximum panel length	
		Desktop load < 35 kg/m ² (7 lbs/ft ²)	Worktop load < 100 kg/m ² (20 lbs/ft ²)
13 mm (1/2 in)	700 mm (27 9/16 in)	unlimited	unlimited
	800 mm (31 1/2 in)	unlimited	1200 mm (47 1/4 in)
	900 mm (35 7/16 in)	unlimited	900 mm (35 7/16 in)
	1000 mm (39 3/8 in)	1400 mm (55 1/8 in)	
	1100 mm (43 5/16 in)	1100 mm (43 5/16 in)	
16 mm (5/8 in)	800 mm (31 1/2 in)	unlimited	unlimited
	900 mm (35 7/16 in)	unlimited	1400 mm (55 1/8 in)
	1000 mm (39 3/8 in)	unlimited	1200 mm (47 1/4 in)
	1100 mm (43 5/16 in)	1800 mm (70 7/8 in)	
	1200 mm (47 1/4 in)	1500 mm (59 1/16 in)	
20 mm (3/4 in)	1300 mm (51 1/8 in)	1300 mm (51 1/8 in)	
	1000 mm (39 3/8 in)	unlimited	unlimited
	1100 mm (43 5/16 in)	unlimited	1500 mm (59 1/16 in)
	1200 mm (47 1/4 in)	unlimited	1200 mm (47 1/4 in)
	1300 mm (51 1/8 in)	1800 mm (70 7/8 in)	
25 mm (1 in)	1400 mm (55 1/8 in)	1600 mm (63 in)	
	1500 mm (59 1/16 in)	1500 mm (59 1/16 in)	
	1100 mm (43 1/16 in)	unlimited	unlimited
	1200 mm (47 1/4 in)	unlimited	2000 mm (78 3/4 in)
	1300 mm (51 1/8 in)	unlimited	1700 mm (66 15/16 in)
25 mm (1 in)	1400 mm (55 1/8 in)	2600 mm (102 3/8 in)	1400 mm (55 1/8 in)
	1500 mm (59 1/16 in)	2200 mm (86 5/8 in)	



Span over 2 or more supports

Number of supports	Panel thickness	Maximum support interval L	
		Desktop load < 35 kg/m ² (7 lbs/ft ²)	Worktop load < 100 kg/m ² (20 lbs/ft ²)
2	13 mm (½ in)	850 mm (33 ½ in)	700 mm (27 ⅞ in)
	16 mm (⅝ in)	950 mm (37 ⅜ in)	800 mm (31 ½ in)
	20 mm (¾ in)	1000 mm (39 ⅜ in)	900 mm (35 ⅞ in)
	25 mm (1 in)	1300 mm (51 ⅛ in)	1000 mm (39 ⅜ in)
3	13 mm (½ in)	1050 mm (41 ⅝ in)	850 mm (33 ½ in)
	16 mm (⅝ in)	1200 mm (47 ¼ in)	1000 mm (39 ⅜ in)
	20 mm (¾ in)	1400 mm (55 ⅛ in)	1150 mm (45 ¼ in)
	25 mm (1 in)	1500 mm (59 ⅛ in)	1350 mm (53 ⅜ in)
4	13 mm (½ in)	1000 mm (39 ⅜ in)	800 mm (31 ½ in)
	16 mm (⅝ in)	1000 mm (39 ⅜ in)	950 mm (37 ⅜ in)
	20 mm (¾ in)	1000 mm (39 ⅜ in)	1000 mm (39 ⅜ in)
	25 mm (1 in)	1000 mm (39 ⅜ in)	1000 mm (39 ⅜ in)

(the maximum panel length is 3050 mm (120 in))!



Fixing intervals

- Minimum distance from the edge: 20 mm (¾ in)
- Maximum distance from the edge: 150 mm (6 in)
- At least 6 screws per m² (1 screw per ft² of panel surface area)
- Distribute screws evenly throughout the support construction

LABORATORY WORKTOPS

Product

Trespa TopLab^{PLUS}, Trespa TopLab^{ECO-FIBRE} or Trespa Athlon (Crystal surface texture).

Durability, maintainability, reliability and aesthetics are optimized when the worktop is machined correctly.

Trespa panels can be tailored to the technical discipline of the laboratory. Requirements such as: safety, ergonomics, cleanability, and environmental demands, can all be met through the adaptation of the worktop to your specific needs.

Some examples of how Trespa panels can be adapted to particular work needs and conditions are illustrated on the next page.

Minimum standards of design

Joints

It is recommended that the joint between two benches should be level, strong and easy to clean (dependent on specification). As a general rule joints should be away from sink areas and over or near supports. It is generally accepted that the distance from a joint to the end of bench should be greater than the overall width of the bench.

Edges

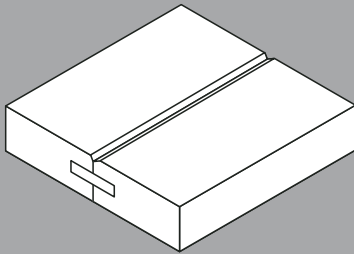
Edges should be safe, free from saw marks and jagged edges. For better aesthetics it is advised to polish edges.

Accessories

The machinability of Trespa panels allows the easy incorporation of sinks (stainless steel, epoxy, polypropylene), drip cups (polypropylene) and marine edges (Epoxy).

Joints

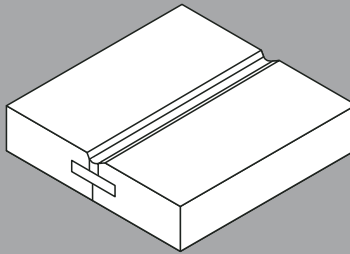
Chemical and analytical areas



Spline joint with chamfer

- Chamfer will reduce the likelihood of chipping caused by sliding heavy objects
- Will disguise any irregularities in the levels of two adjoining bench worktops

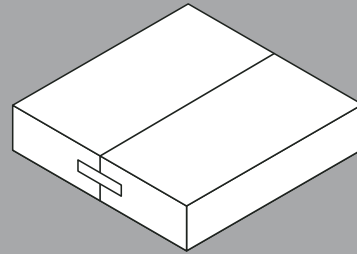
Biological and clinical areas



Spline joint with sealant

- Specified where hygiene and cleanliness are important
- Sealant can be cleaned, removed and replaced if necessary and reduces the likelihood of penetration by liquids

Physical and educational areas

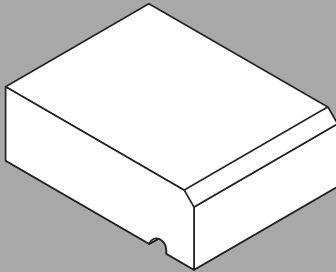


Standard spline joint

- Spline assists the joining of two separate panels
- Establishes a strong joint

Edges

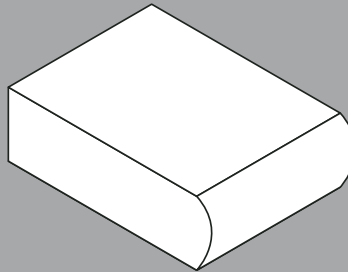
Chemical and analytical areas



Chamfer edge and drip groove

- Size of chamfer is recommended to be at least 2 mm ($1/16$ in)
- Chamfer reduces instances of chipping to surface edge
- Drip groove minimizes the risk of hazardous chemicals finding their way into under bench draws and storage areas

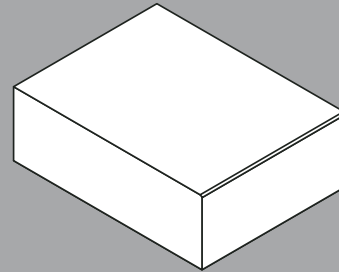
Biological and clinical areas



Crescent edge

- Decorative edge for dry areas and write-up benches
- Easy to decontaminate

Physical and educational areas

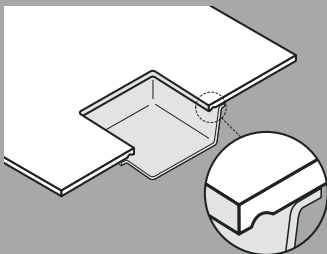


Standard edge (chamfer)

- Size of chamfer is recommended to be at least 2 mm ($1/16$ in)

Sink holes

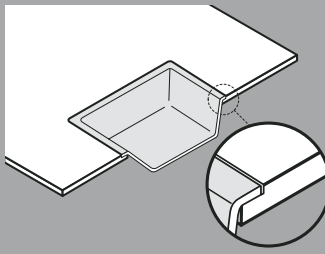
Chemical and analytical areas



Sink hole with edge drip groove for underslung sink

- Drip groove helps to prevent liquid spills creeping through joints and into underbench areas
- Spills can easily be wiped into the sink

Biological and clinical areas



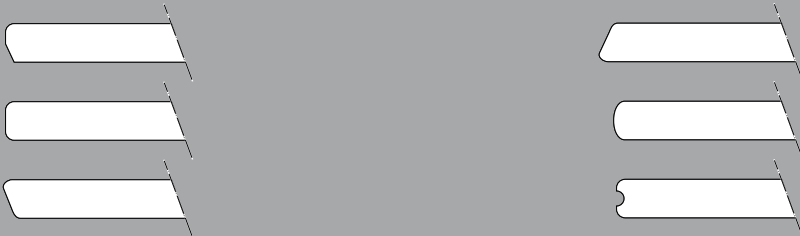
Sink hole with finish as cut for drop in sink

- Easy to clean where contamination is a concern
- Ensures the integrity of experiments
- Drop in sinks are advised where contaminated liquids are used

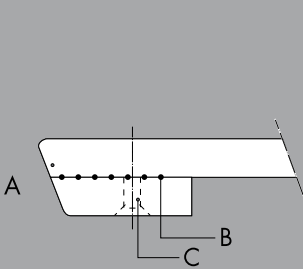
FURNITURE INSTALLATION DETAILS

Edge finish on the work surface

Single ply

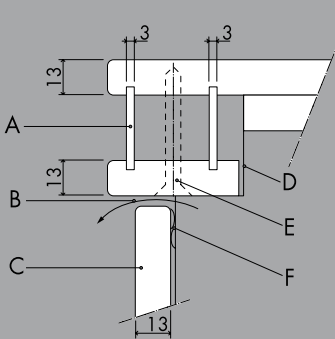


Double ply using min. Trespa 13 mm (1/2 in)



- A Planing after the glue has hardened
 - B Glued joint
 - C Mechanical joint
- Screw diameter: 4.5 mm (3/16 in), pre-drill with 4 mm (1/8 in) diameter

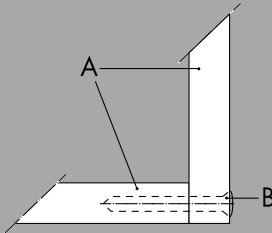
Double ply with connector using min. Trespa 13 mm (1/2 in)



- A Trespa 3 mm (1/8 in)
 - B Ventilation
 - C Door
 - D Body
 - E Mechanical joint
- Screw diameter: 4.5 mm (3/16 in), pre-drill with 4 mm (1/8 in) diameter
- F Door stops (rubber, PVC)

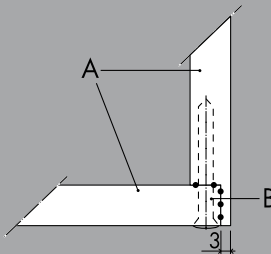
Corner joint

Screw-fixed



- A Trespa 13 mm (1/2 in)
- B Screw: 4.5 (3/16 in) x 35 mm (1 3/8 in). Pre-drill with 4 mm (1/8 in) diameter, depth 25 mm (1 in). If desired, place cover cap every ± 250 mm (9 13/16 in). Minimum distance from the edge: 20 mm (3/4 in).

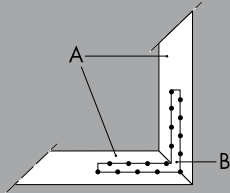
Screw-fixed/glued with recess



- A Trespa 13 mm (1/2 in)
- B Screw: 4.5 (3/16 in) x 35 mm (1 3/8 in). Pre-drill with 4 mm (1/8 in) diameter, depth 25 mm (1 in). Minimum distance from the edge: 20 mm (3/4 in).

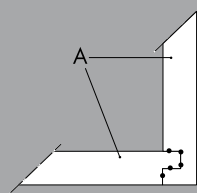
Corner joint

With glue-fixed L profile



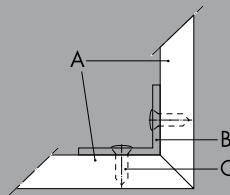
- A Trespa 13 mm (1/2 in)
- B Aluminum L profile
30 x 30 x 3 mm
(1 3/16 in x 1 3/16 in
x 1/8 in)

Glued



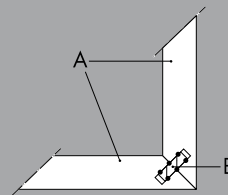
- A Trespa 13 mm (1/2 in)

With screw-fixed L profile



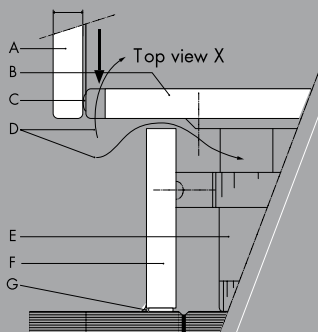
- A Trespa 13 mm (1/2 in)
- B Aluminum L profile
30 x 30 x 3 mm
(1 3/16 in x 1 3/16 in
x 1/8 in)
- Mechanical joint
every ± 100 mm (4 in)
- C Screw: 4 x 12 mm,
(1/8 in x 7/16 in)
pre-drill with 3 mm
(1/8 in) diameter,
depth 10 mm (3/8 in)

With glue-fixed tongue



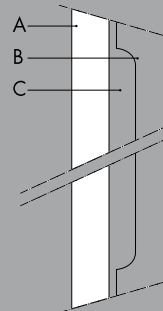
- A Trespa 13 mm (1/2 in)
- B Aluminum or Trespa
tongue

Bottom edge-finish using min. Trespa 13 mm (1/2 in)



- A Door
- B Bottom panel
- C Door stop
- D Ventilation
- E Adjustable legs
- F Skirting (clicked)
- G Silicone sealing mastic

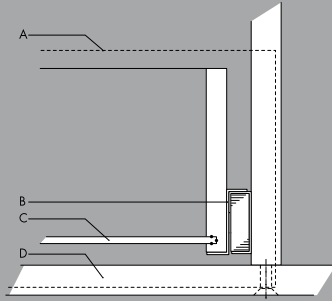
Top view X



- A Door
- B Bottom panel
- C Ventilation spaces to
improve ventilation,
especially if high
moisture levels are
likely

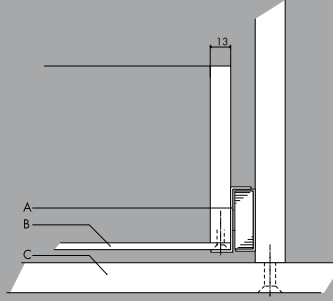
Drawer finish

Glue fixed drawer base using min. Trespa 13 mm (1/2 in)



- A Drawer front
- B Drawer rail
- C Drawer base in Trespa 3 mm (1/8 in)
- D Bottom panel in Trespa 13 mm (1/2 in)

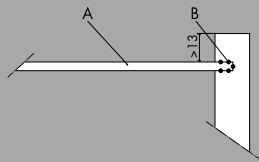
Screw-fixed drawer base using min. Trespa 13 mm (1/2 in)



- A Drawer rail
- B Drawer base in Trespa 3 mm (1/8 in) or 6 mm (1/4 in) (large surfaces)
- C Bottom panel in Trespa 13 mm (1/2 in)

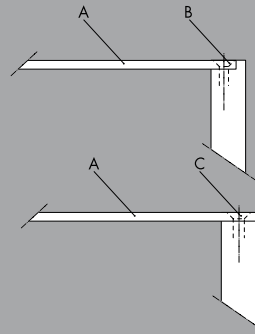
Back panel finish

Glue-fixed with 3/6 mm (1/8, 1/4 in) Trespa



- A Back panel in Trespa 3 mm (1/8 in) or 6 mm (1/4 in)
- B Glue

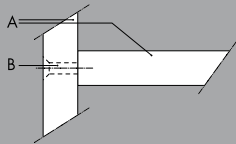
Screw-fixed with 3/6 mm (1/8, 1/4 in) Trespa



- A Back panel in Trespa 3 mm (1/8 in) or 6 mm (1/4 in)
- B Screw diameter: 3.5 x 20 mm, (1/8 in x 3/4 in) Pre-drill diameter: 3 mm (1/8 in), depth: 20 mm (3/4 in)
- C Screw diameter: 4.5 x 35 mm, (7/16 in x 1 3/8 in) Pre-drill diameter: 4 mm (1/8 in), depth: 35 mm (1 3/8 in)

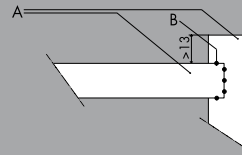
T joints

Screw-fixed



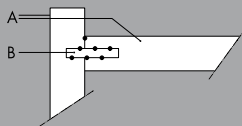
- A Trespa 13 mm (1/2 in)
- B Mechanical joint. Screw diameter: 4.5 x 35 mm. (7/16 in x 1 3/8 in) Pre-drill diameter 4 mm (1/8 in), depth: 35 mm (1 3/8 in). Cover cap optional.

Glue-fixed with groove



- A Trespa 13 mm (1/2 in)
- B Glue

Glue-fixed with tongue

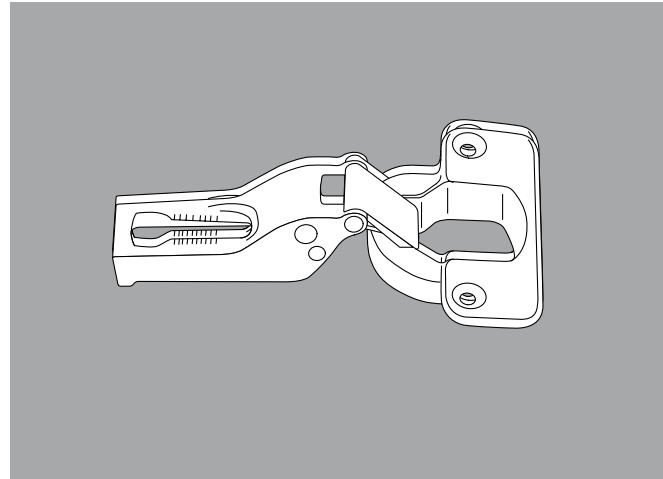


- A Trespa 13 mm (1/2 in)
- B Aluminum or Trespa tongue or lamellas

Hinges

- Stainless steel concealed hinges: use where high demands are placed on corrosion resistance and chemical resistance
- Galvanized steel: for the remaining applications

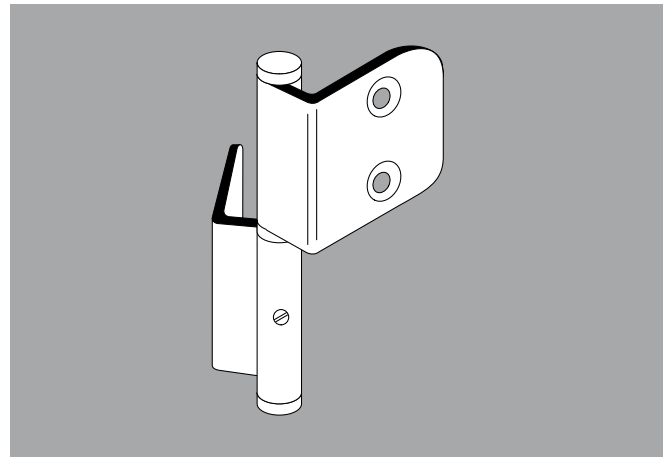
Important: if 13 mm ($\frac{1}{2}$ in) thick doors are used, the drill depth is 11 mm ($\frac{7}{16}$ in) maximum, which makes some hinges unsuitable. Doors thicker than 13 mm ($\frac{1}{2}$ in) are suitable for all hinges. The manufacturer's instructions regarding maximum load, number of hinges, etc., should always be taken into account.



- Stainless steel: use where high demands are placed on corrosion resistance, chemical resistance, cleanability, etc.

Important: this hinge has the following properties:

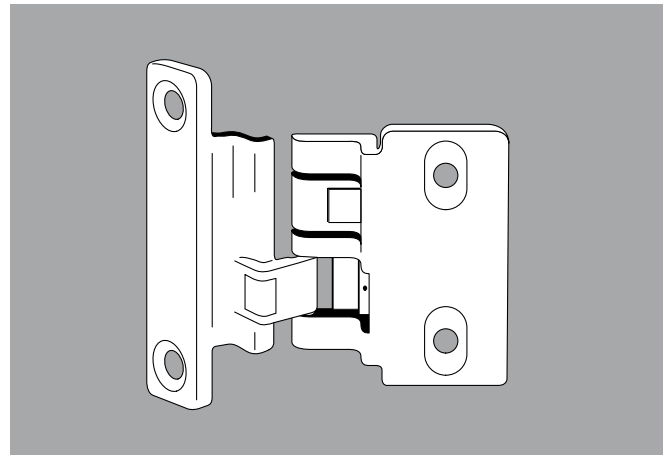
- Corrosion resistant
- High resistance to chemicals
- Wide opening angle up to 240°
- The entire cupboard space can be used



- Stainless steel: use where high demands are placed on corrosion resistance and chemical resistance
- Galvanized steel: for the remaining applications

Important: this hinge is available with single or double hinge, with or without catch:

- Special single-axle hinge
- Wide opening angle up to 240°
- Suitable for module systems
- 5 mm ($\frac{3}{16}$ in) thick pin
- Level with side panel when 13 mm ($\frac{1}{2}$ in) panel is used



Hinges shown are representative of types used internationally. Consult with your hardware representative for hinges that are most compatible with the material thickness and construction style specified or required.