

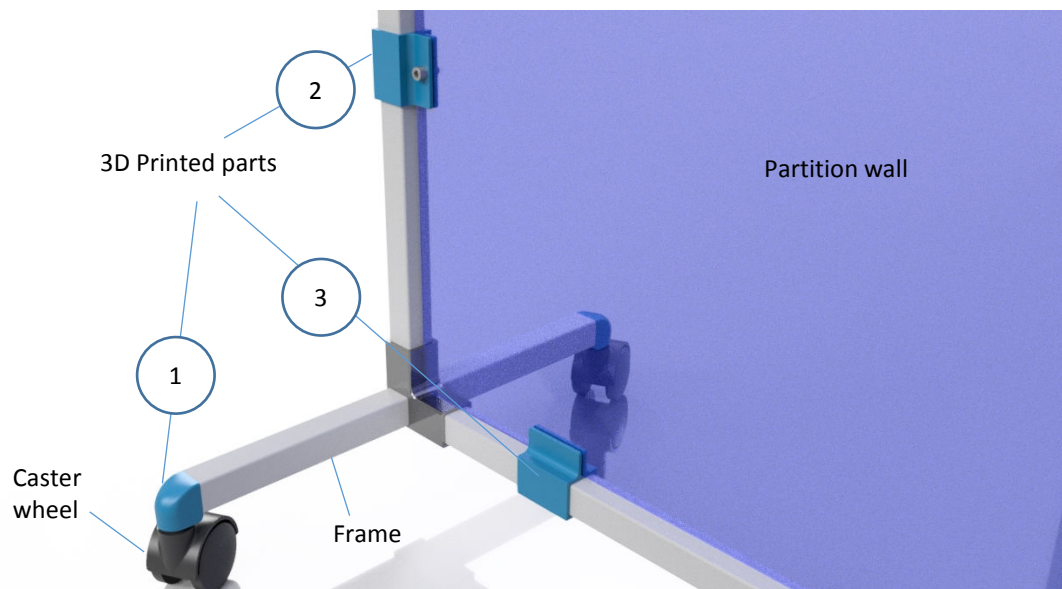
3D Printed Bracket for mobile barrier

By Insan Gunawan



Mobile barrier can be used for social distancing in library, canteen, hall partition, classroom, etc.

The barrier consist of frame (square pipe), wheels, partition wall (acrylic, polycarbonate, plywood, etc), caster wheels, and 3D printed bracket.



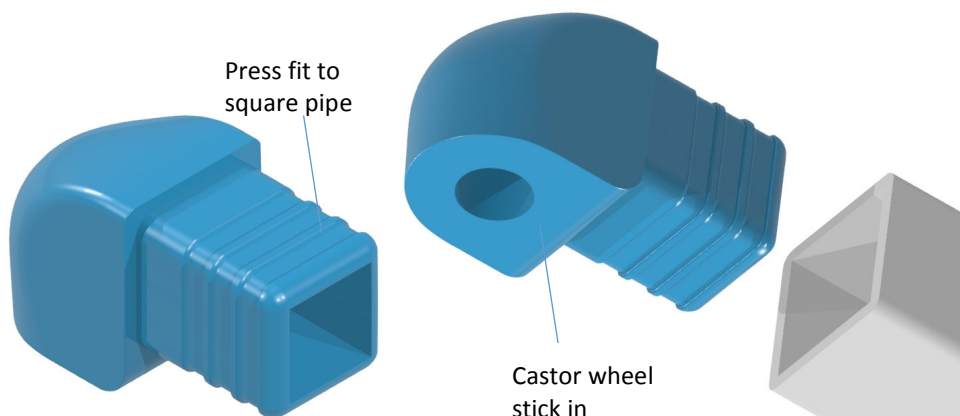
A. 3D Printed Component:

1. Square pipe end caster wheel bracket
2. Split partition clamp bracket
3. Slide in partition bracket

All parts delivered in .stl file format

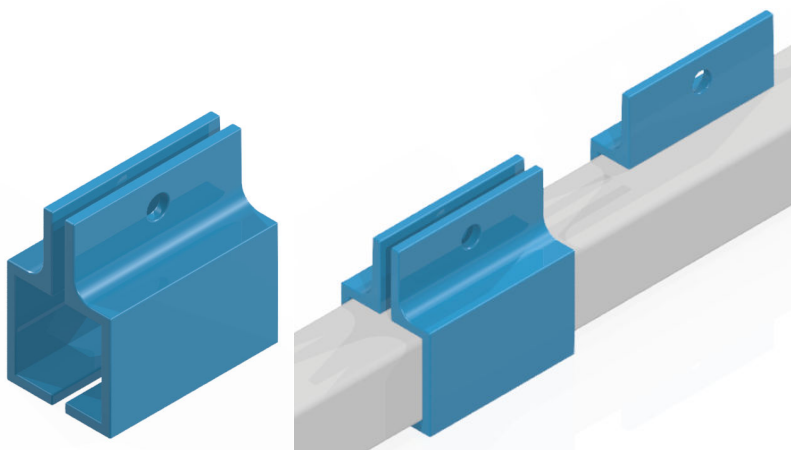
1. Square pipe end caster wheel bracket

Push and press the bracket to the square pipe.
Attach the caster wheel stick into the hole.



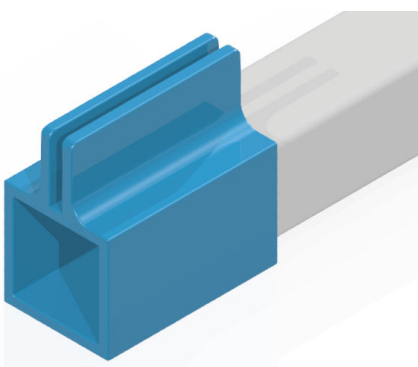
2. Split partition clamp bracket

Use a fastener / bolt connection through the holes to clamp the partition walls and attach them to the square pipe. Easy assembly, just align the holes and snap it.



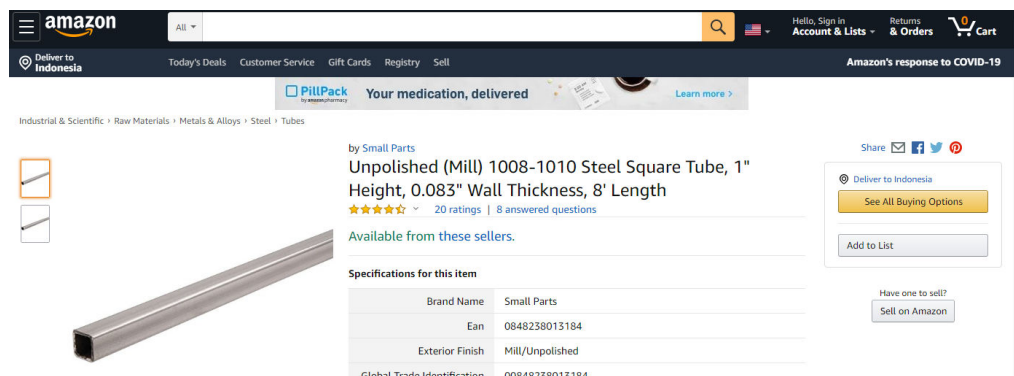
3. Slide in partition bracket

No fastener needed. Slide in the square pipe to bracket. Not recommended for long pipe. Suitable for 3mm wall thickness.



B. Existing Component that available in the market:

Square tube, 1" height for frame



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Industrial & Scientific > Raw Materials > Metals & Alloys > Steel > Tubes

by Small Parts

Unpolished (Mill) 1008-1010 Steel Square Tube, 1" Height, 0.083" Wall Thickness, 8' Length

★★★★☆ 20 ratings | 8 answered questions

Available from these sellers.

Specifications for this item

Brand Name	Small Parts
Ean	0848238013184
Exterior Finish	Mill/Unpolished
Global Trade Identification	00848238013184

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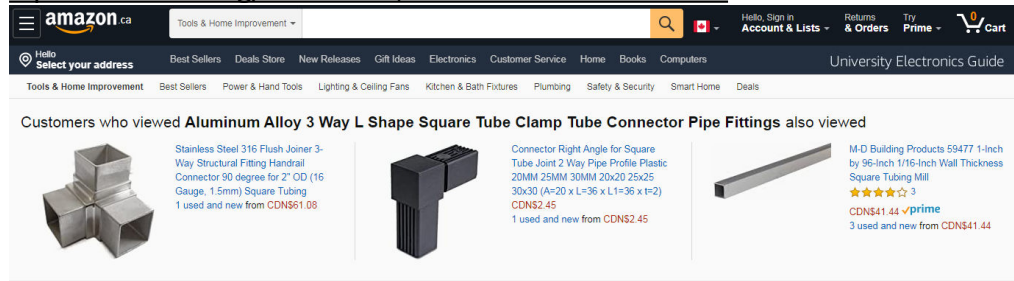
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Square tube fitting/connector, also available in amazon



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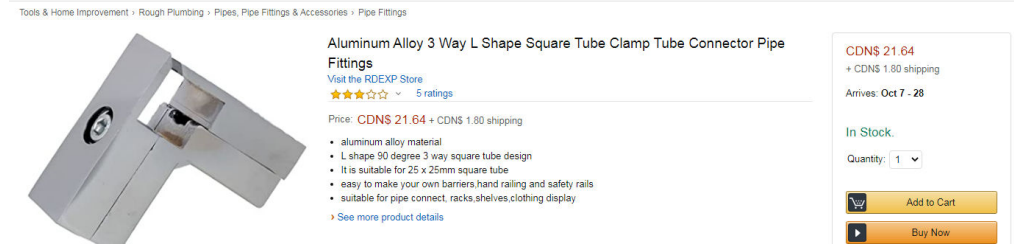
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Aluminum Alloy 3 Way L Shape Square Tube Clamp Tube Connector Pipe Fittings

Visit the RDEXP Store

★★★★☆ 5 ratings

Price: **CDN\$ 21.64** + **CDN\$ 1.80** shipping

- aluminum alloy material
- L shape 90 degree 3 way square tube design
- It is suitable for 25 x 25mm square tube
- easy to make your own barriers hand railing and safety rails
- suitable for pipe connect, racks,shelves,clothing display

See more product details

CDN\$ 21.64
+ **CDN\$ 1.80** shipping

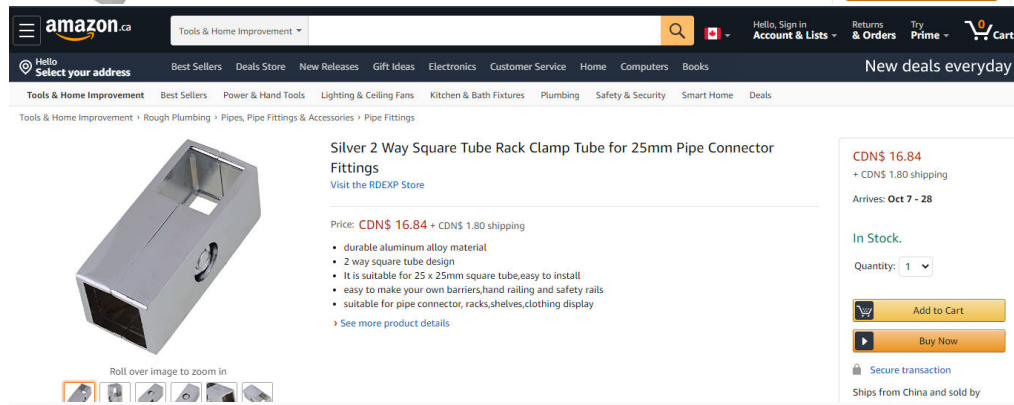
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Silver 2 Way Square Tube Rack Clamp Tube for 25mm Pipe Connector Fittings

Visit the RDEXP Store

Price: **CDN\$ 16.84** + **CDN\$ 1.80** shipping

- durable aluminum alloy material
- 2 way square tube design
- It is suitable for 25 x 25mm square tube,easy to install
- easy to make your own barriers,hand railing and safety rails
- suitable for pipe connector, racks,shelves,clothing display

See more product details

CDN\$ 16.84
+ **CDN\$ 1.80** shipping

Arrives: **Oct 7 - 28**

In Stock.

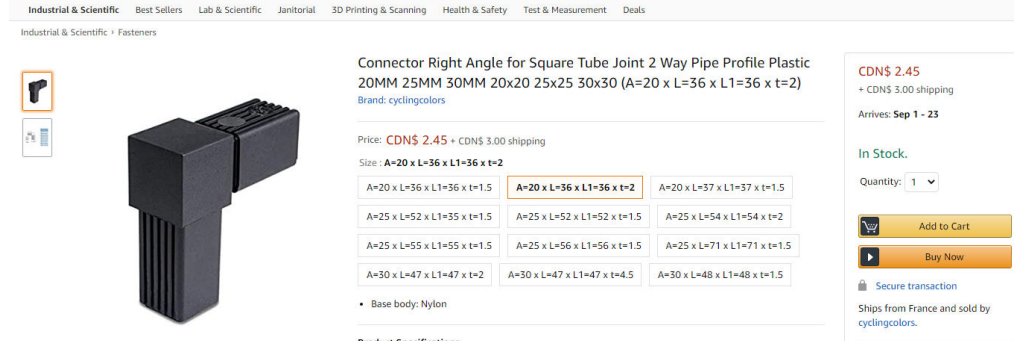
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Ships from China and sold by



Connector Right Angle for Square Tube Joint 2 Way Pipe Profile Plastic 20MM 25MM 30MM 20x20 25x25 30x30 (A=20 x L=36 x L1=36 x t=2)

Brand: cyclingcolors

Price: **CDN\$ 2.45** + **CDN\$ 3.00** shipping

Size: A=20 x L=36 x L1=36 x t=2

A=20 x L=36 x L1=36 x t=1.5	A=20 x L=36 x L1=36 x t=2	A=20 x L=37 x L1=37 x t=1.5
A=25 x L=52 x L1=35 x t=1.5	A=25 x L=52 x L1=52 x t=1.5	A=25 x L=54 x L1=54 x t=2
A=25 x L=55 x L1=55 x t=1.5	A=25 x L=56 x L1=56 x t=1.5	A=25 x L=71 x L1=71 x t=1.5
A=30 x L=47 x L1=47 x t=2	A=30 x L=47 x L1=47 x t=4.5	A=30 x L=48 x L1=48 x t=1.5

- Base body: Nylon

Product Specifications

CDN\$ 2.45
+ **CDN\$ 3.00** shipping

Arrives: **Sep 1 - 23**

In Stock.

Quantity: 1

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Secure transaction

Ships from France and sold by cyclingcolors.

Caster Wheel, slip stick type, 2 inch wheel diameter

The image shows an Amazon product page for Slipstick CB680 2 Inch Floor Protecting Rubber Office Chair Caster Wheels (Set of 5) Standard Stem Size - Black/Gray. The product is shown in two views: a side view and a top view. The side view shows a height of 2-3/8" (40mm) and a width of 2" (50mm). The top view shows a diameter of 2" (50mm) and a height of 3-15/64" (40mm). The stem diameter is 7/16" (11mm) and the stem length is 3/4" (20mm). The product is priced at \$13.74 + \$22.83 shipping. It has 2,420 ratings and is an Amazon's Choice product. The product is in stock and can be added to the cart or bought now. The product is shipped from and sold by Amazon.com.

Slipstick CB680 2 Inch Floor Protecting Rubber Office Chair Caster Wheels (Set of 5) Standard Stem Size - Black/Gray
by Slipstick
★ ★ ★ ★ ☆ 2,420 ratings
Amazon's Choice for "casters for office chairs"

List Price: \$19.99
Price: **\$13.74** + \$22.83 shipping
You Save: \$6.25 (31%)

Available at a lower price from [other sellers](#) that may not offer free Prime shipping.

- Each caster features a standard size 7/16 inch (11mm) diameter x 7/8 inch (22 mm) length stem and easy-rolling 2" (50 mm) twin caster rubber wheels
- Eliminates the need for big plastic floor mats over your beautiful floors, these rubber castor wheels protect hardwood, laminate, tile, slate, and all other hard floor surfaces
- Perfect as a set of replacement caster wheels for office chairs with hard, noisy, rough plastic wheels. Black and Gray to match and blend with any décor
- This a set of 5 casters will hold a maximum of 330 lbs total weight chair and rider. Perfect for home or office use. our wheels carry a 5-year free replacement warranty

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+ \$22.83 shipping
Arrives: **Aug 25 - Sep 9**

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Qty: 1

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Assembly sample:

