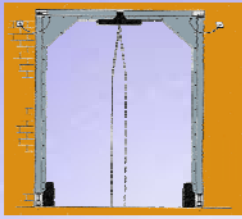




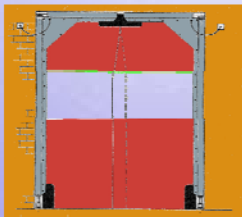
Flexible swing door Transparency



- Entirely transparent sheets
 - Excellent visibility either side of the opening (safety)
 - The leaves can not be cut out most of the time in one part from the P.V.C. roll : no tricky assembly.



- Panels consisting of a transparent top part and an opaque bottom part, generally grey or orange.
 - Good visibility on passage
 - The effects of loads contacting directly the lower part of the panel during passages is less visible than on an all-transparent product.



- Panels consisting of a transparent central part, opaque bottom part, opaque top part (generally gray or orange)
 - Relatively good visibility for passage
 - Partially masks from view the premises while ensuring sufficient visibility during passage (warehouses for distribution stores, etc.).

- All opaque panels.
 - No visibility
 - To be used for one-way passages or pedestrian passages where there are no risks of collision.



Flexible swing door

Assembly process

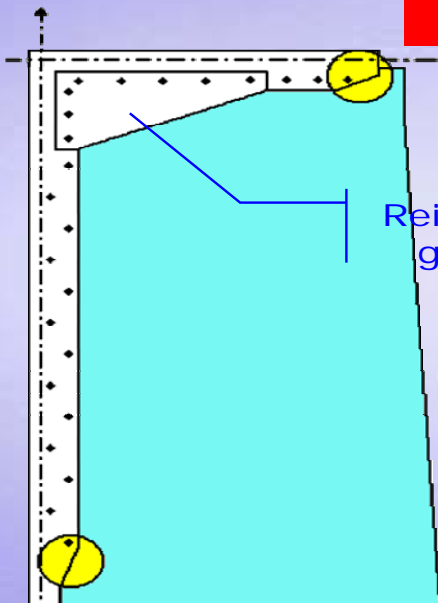
Interconnection profile

Assembly parts

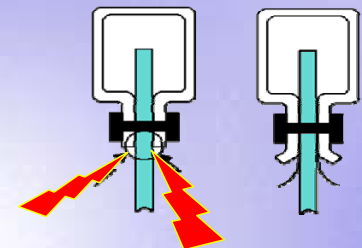
Fixing parts

Return system

The Frame



- ❖ Assembly parts
 - ❖ Provide for a slight positive curve on the frame, amounting to 5 mm per meter to compensate for the sag due to the weight of the panel.
 - ❖ Sharp edges should not be in contact with the panel.
 - ❖ Provide protection: shock absorber in the panel areas that bend and that are under solicitation during opening
 - ❖ Provide a strengthening gusset either side of the frame to make the link more rigid and square so as to take the weight of the panel without sagging (very important for correct strength and presentation of door).





Flexible swing door

Assembly process

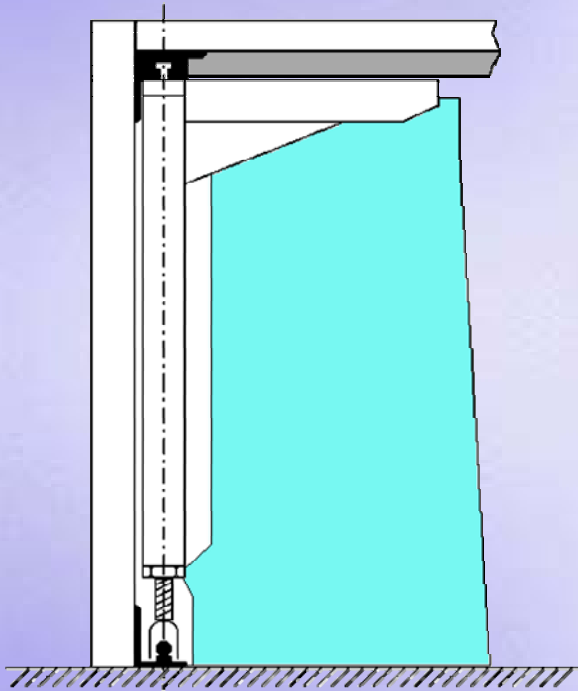
Interconnection profile

Assembly parts

Fixing parts

Return system

The Frame



❖ Fixing parts

- ❖ The fixing parts must be metal with anti-corrosion treatment (stainless steel, zinc-plating or paint) and must be sturdy because they will be required to take up the weight of the door leaf as well as the various forces caused by its opening and closing.
- ❖ For smaller doors, double-action hinges may be used (with an incorporated return system: "liob" hinges); in this case, it is advisable to have 3 hinges, 2 at the top and 1 at the bottom.



Flexible swing door

Assembly process

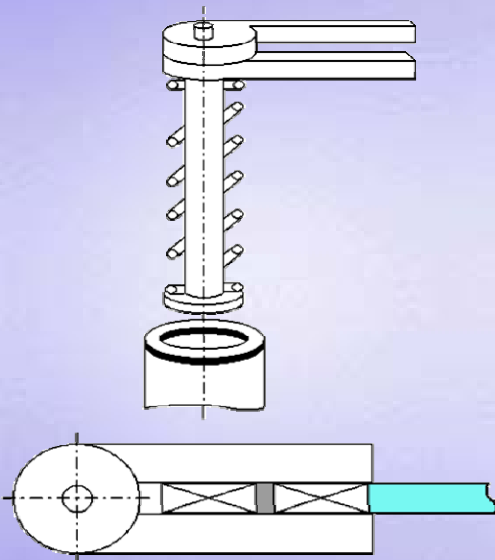
Interconnection profile

Assembly parts

Fixing parts

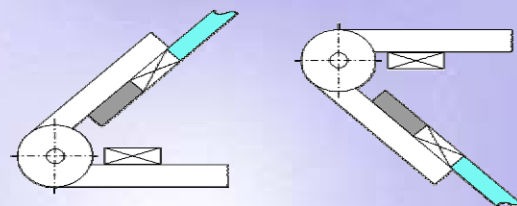
Return system

The Frame



❖ Return system

- ❖ The return system ensures automatic door closing. It can be incorporated into the hinge if the frame is held by a double-acting hinge or manufactured specially from a spring, worked by twisting and equipped with a device for adjusting the return force according to the weight of the panel.
- ❖ This type of mechanism can be very easily inserted into a tubular upright (construction tubing) used for manufacturing the frame.





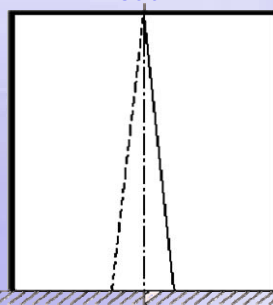
Flexible swing door

Workshop

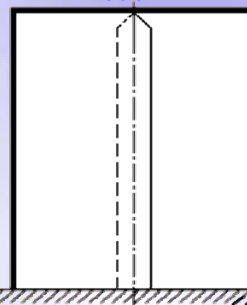
❖ Choose the panel shape

- ❖ For a door consisting of a single leaf, the shape obviously has to match the opening and will be rectangular: however, leave a 10 mm clearance between the side structure of the opening and the panel and a 15 mm clearance between the bottom of the panel and the floor.
- ❖ For a door consisting of two leaves, provide an overlap to ensure tightness between the two leaves. This overlap must be at least 100 mm but should not be excessive because its weight could cause the panel to hang on a slant.

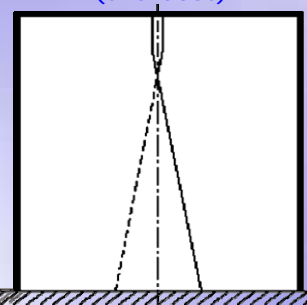
Trapezium cut



Rectangular cut



Mixed cut (the best)



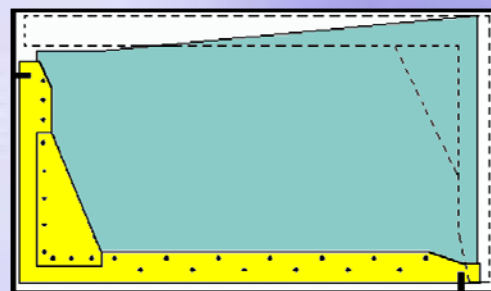
Flexible swing door

Workshop

❖ How to pack the panels

- ❖ Packing must ensure that the panel is supported on the flat and cannot move in its package to prevent deformation.
- ❖ If, in spite of these precautions, the entire panel is deformed, it can be brought back into its original plane by heating it uniformly for one hour at 60°C .

Views of wooden crate (recommended)



- ❖ Protect the panel from direct contact with any aggressive parts of the package: wood, carton, metal
- ❖ Lock the panels and their frame in the package. It must not be possible for it to move whatever the position.





Flexible swing door

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Flexible swing door with automatic closure", or "*Flexible door*" refers to a structure that serves to close a passageway between two communicating environments, that can be opened simply by pushing it, to permit the transit of persons and vehicles in both directions.

After their passage, the spring mechanism enables the leaves to close automatically and holds them shut.



Flexible swing door

Design Features



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Flexible swing door

Transparency choice



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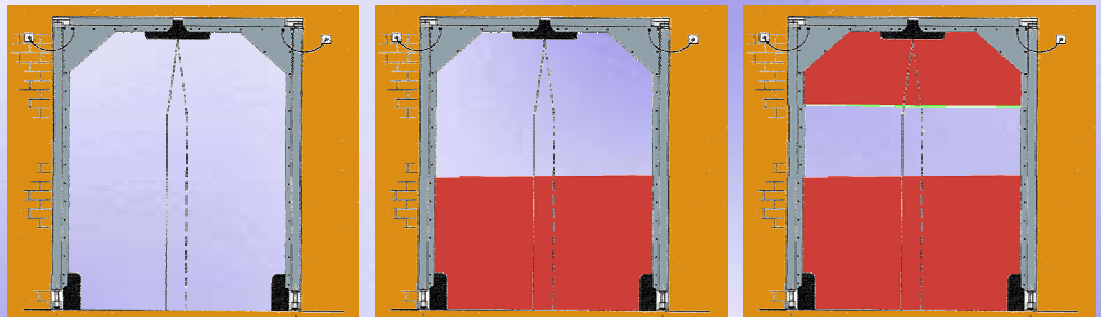
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According to application and passing traffic, 3 types of leaves are available :



Flexible swing door

Operating Principle



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Flexible doors

are normally used in industrial plants and shops where there is a need to close a space used for passage between two different environments or between the inside and the outside of a building, allowing people and vehicles to pass without stopping.

This is possible because *flexible doors* can be opened simply by pushing against the swing panels.

The panels open to permit passage and, when the pushing action stops, a [spring mechanism](#) returns the swinging panels immediately to their original position.

The panels swing both ways to allow passage in either direction.





Flexible swing door **Technical components**



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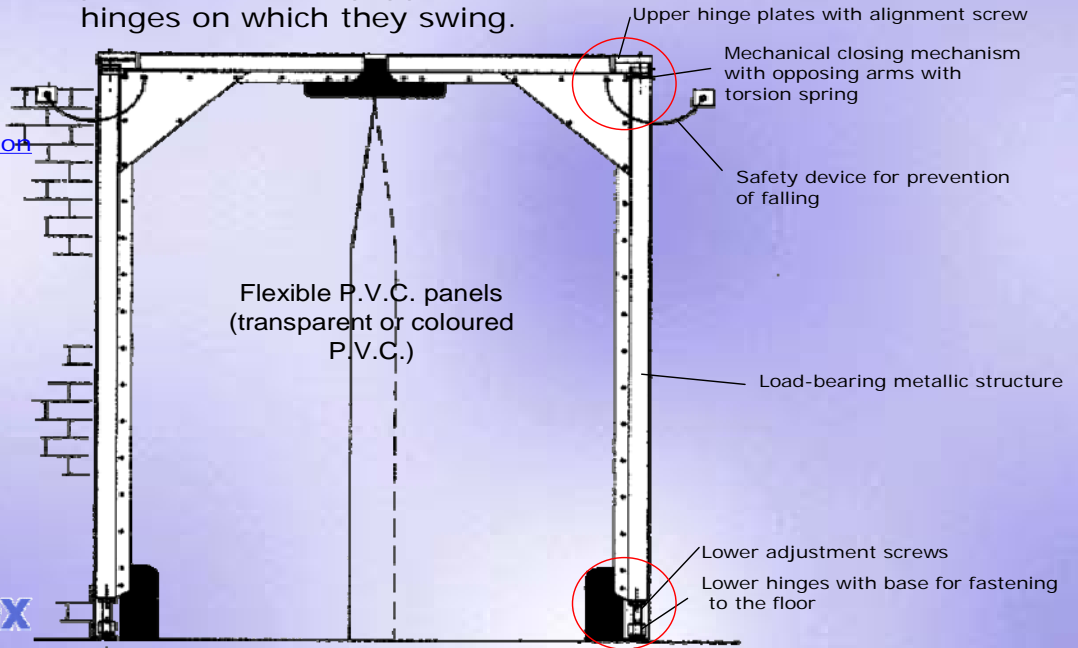
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The *Flexible door*, consists of a metallic structure on the three sides of the opening, which supports the flexible panels and is equipped with mechanical devices and the hinges on which they swing.



Flexible swing door **Automatic device**



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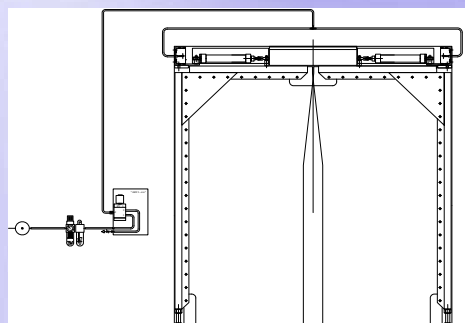
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**"ONE-WAY" door Opening with Remote Control
Compressed air distribution system
Plant layout**

2/2

The compressed air line must be made using pipes with a minimum cross section of 1/4" or Rilsan (nylon) hoses measuring 8x6 mm, as shown in the drawing below.

Upstream of the system there must be an air treatment unit consisting of a Filter-separator for condensation, a pressure reducer with gauge and a lubricator to supply the valves and cylinders with clean, oiled air.





Flexible swing door **Automatic device**



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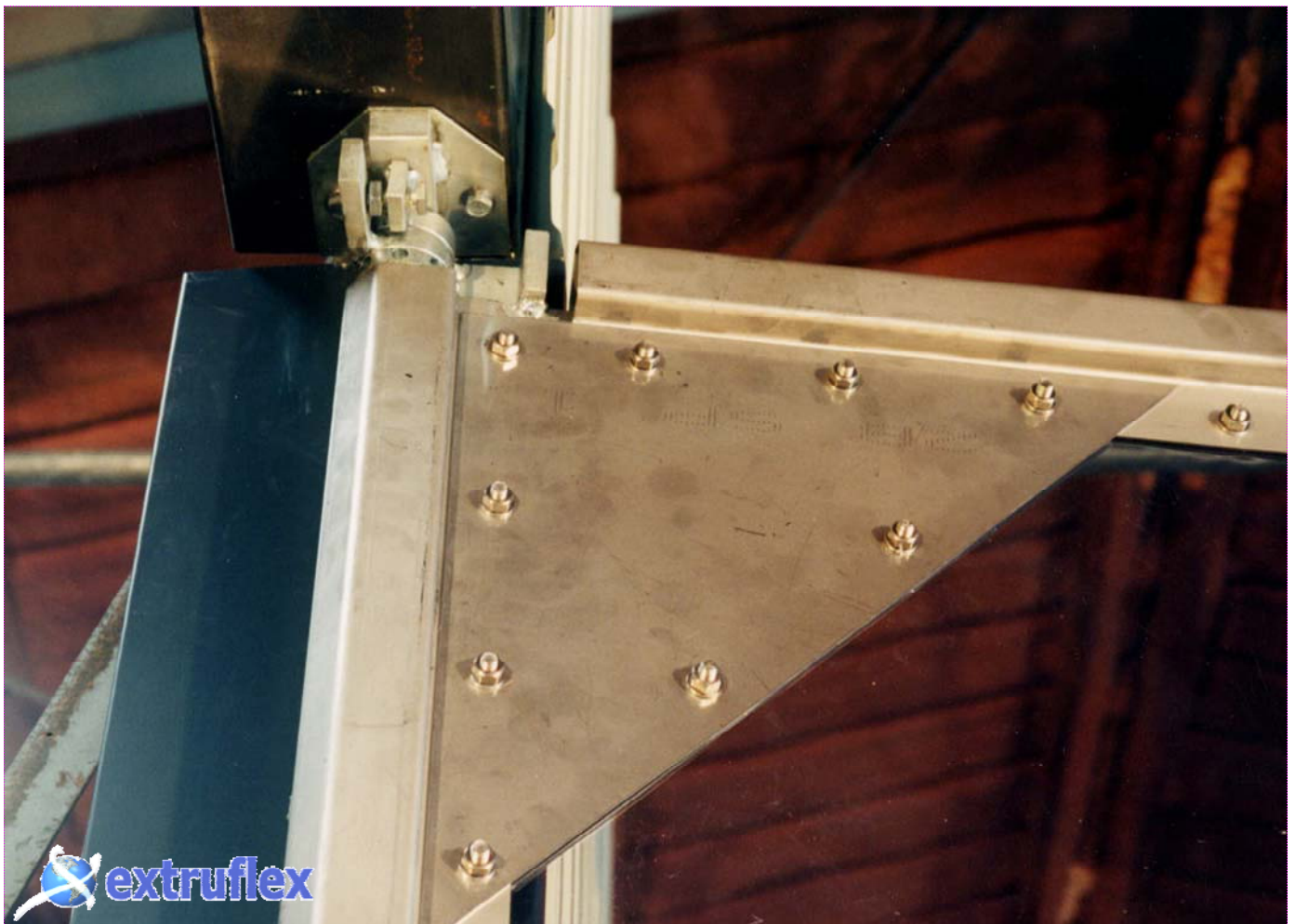
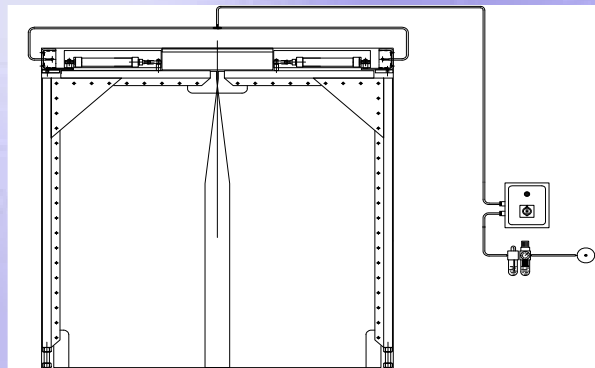
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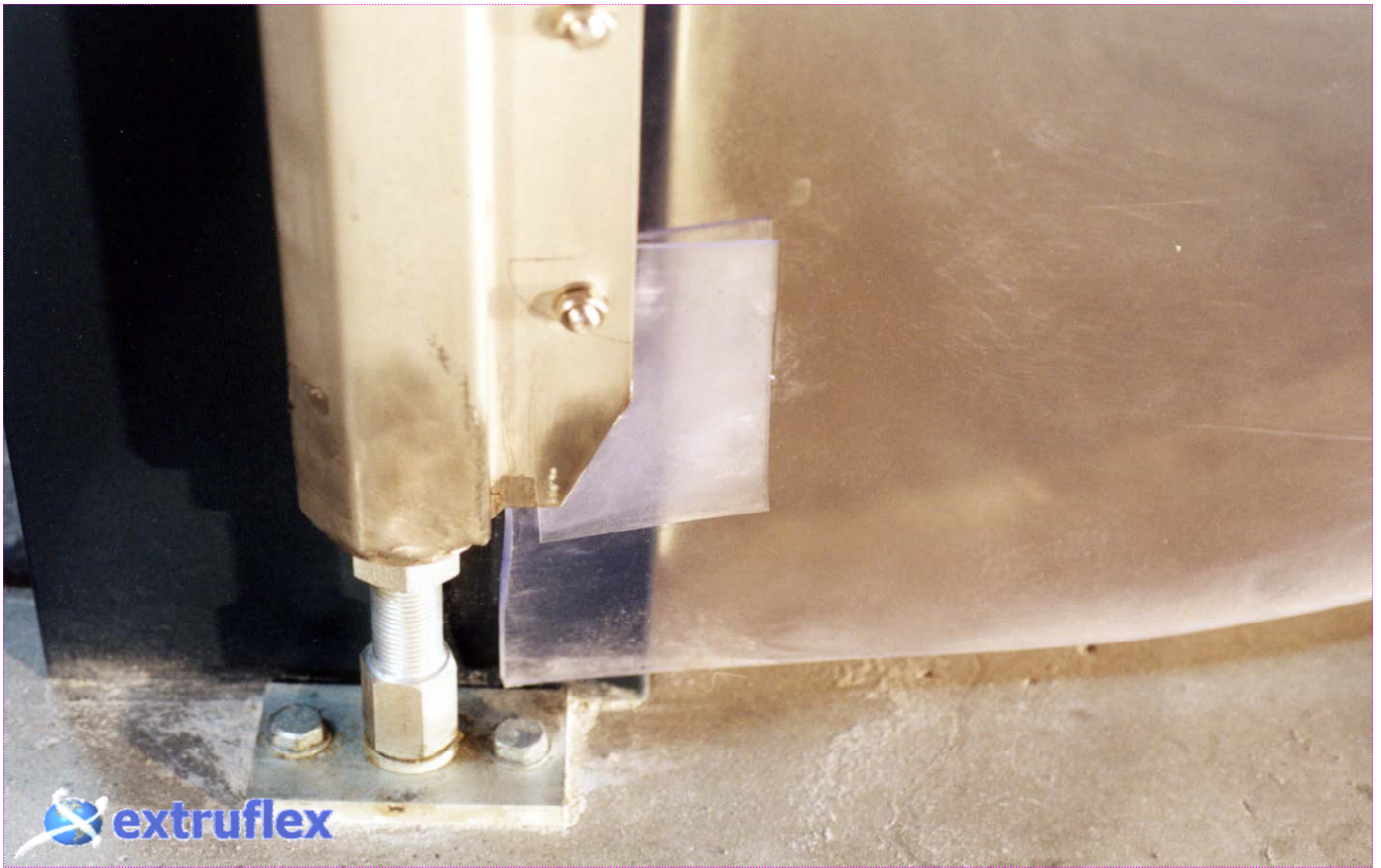
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COMPRESSED AIR SUPPLY (SCHEMATIC SYSTEM LAYOUT) **1/6**

Compressed air power supply must be done using a pipe with, at least, 1/4" section otherwise an 8x6mm Rilsan flexible tube (see the diagram below).

At the beginning of the line a "filter, pressure reducer with gauge and lubricator" must be installed in order to provide clean and lubricated air to the valves.

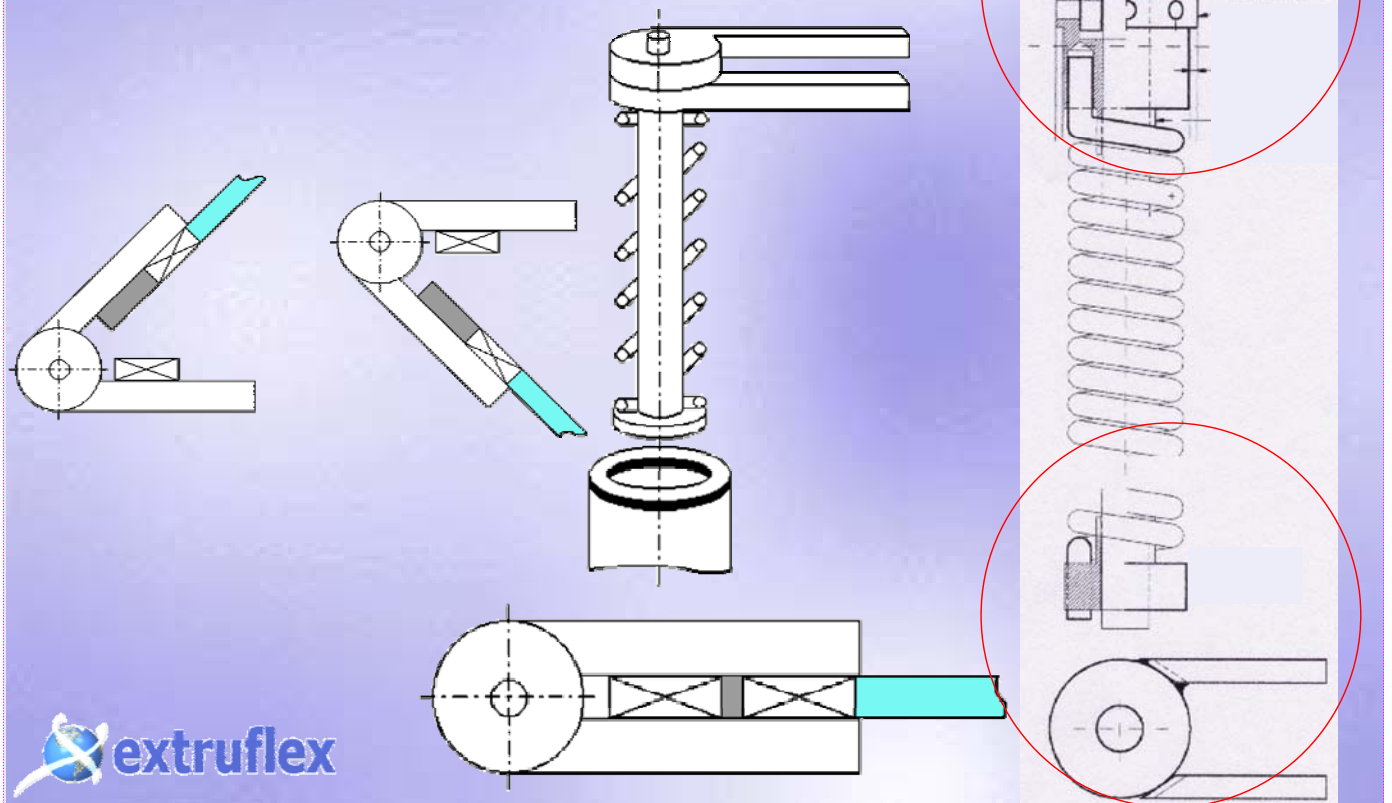




MECHANICAL KIT

Assembly of closing unit

with torsion spring



CỬA ĐÓNG MỞ HAI CHIỀU FLEX SWING DOOR SỬ DỤNG CÁC TẤM MÀN NHỰA CỦA HÃNG EXTRUFLEX PHÁP

CÔNG TRÌNH THAM KHẢO:

- METRO CASH & CARRY VIETNAM
- VIETNAM AIR CATERERS



extruflex

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 extruflex P.V.C.

presentation

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|  |  |  |  |
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