# REQUIREMENTS

**Users**
- Payable
- Customizable
- Operability
- [Sub]Doors
- Tuning
- Security
- Perfectible

**Architects**
- Universality and Diversity of materials
- Technical Continuity
- Customize and Specialize
- Minimize [Pre]Door and [Post] Door area
- Polivalent

**Factory**
- Raw Material
- Time
- Transport / Cost
- Patchwork

**Contractors**
- Standard
- Fractionable
- Compact
- Adaptable
BENCHMARKING

Nowadays the doors are composed of: the door leaf (wood in this case), the door frame, the door handle, the cupboards, the door fitting.

The current trend is that the door is increasingly more integrated into the facing that contains it, to the point that the user perception disappears.

Another form of integration is through the oversized door, making it into something mobile.

A third integration resource could be through the plus-functionality. Its function as door is camouflaged behind a cupboard.

The world of technology is also introduced to the world of doors, activating its opening through electronic systems.

Consider the variety of users to whom it is addressed the door. That is accessible to everybody.

In countries with earthquake, the door can even be an element that protects the people in case of natural disaster. In a separate integration field, the specificity is used as plus-functionality.

We use more innovative materials when dividing spaces.
ACTUAL DOOR

Frames disappear and door hides inside the facade.

Respect the continuity of the wall.

Hides giving an additional function with reflection.

The door is integrated and highlighted with an aluminum bar.

The door adapts to the user who uses.

The door reports what it is behind.

Function is to separate the spaces allowing the visual or connecting when necessary.

Separate two areas thermally and visually. The thickness and opacity are important to get this sensation.

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Opening Doors
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<table>
<thead>
<tr>
<th>SWOT</th>
<th>CHALLENGES</th>
<th>STRENGTHS</th>
<th>WEAKNESSES</th>
<th>OPPORTUNITIES</th>
<th>THREATS</th>
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<tbody>
<tr>
<td></td>
<td>Emotional experience</td>
<td>- No space</td>
<td>Insecure</td>
<td>Flow control people</td>
<td>Restricted market</td>
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<tr>
<td></td>
<td>Dimensional flexibility of free passage</td>
<td>- Not hurt</td>
<td>No soundproofing</td>
<td>Technology Incorporation Associable (colour, projection)</td>
<td>Damage</td>
</tr>
<tr>
<td></td>
<td>Accessibility</td>
<td>- Flexibility</td>
<td></td>
<td></td>
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</tbody>
</table>
BRAINSTORMING

The door... The door can become the same wall

Functionality of the door Looking for an added value...

INTEGRAL DOOR

How could this be giving privacy too?

Modulation Fragmentation of the wall KIT

OPACITY

Could the door just be the doorframe?

Could a door not hurt?

ENERGY

HELPING to the ventilation of a space

Automatic door

Disappearance of the door

Speaker doorframe

FLEXIBLE door

contains framework

What’s going up inside? Is it a private space or I can get inside?

Signalizing need or use of transparent or translucent material so that it can be intuited or No door, it disappears
(for example)

reflection

mirror

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EMOTIONAL EXPERIENCE

GOALS:
- User interaction
- Surprise effect
- Divide spaces
- Accessibility
- Adaptability in the vertical level
- Control the flow of people
- Visual privacy
- Flexibility

BREAKING BY ROLES

DESIGN
- Pioneering
- Minimalist aesthetic
- Transforms the space where it is
- Plus-functionality of uses
- Customize the item
- Artistic element
- Exclusive

CONTRACTOR
- Adaptable
- Flexible
- Plus-functional

MANUFACTURE
- Adaptability of the product
- Easy transportation

USER
- Interaction with the new element
- New emotional experience
- New perception of the boundary
- Accessible
- Flexible pass

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Opening Doors
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TECHNOLOGY

1. Forja
2. Paviment de morter i gres
3. Xapa galvanitzada
4. Lâmina de neopré
5. Filtre
6. Baralla roscada d’acer inoxidable amb manequets d’acer inoxidable
7. Pedestal roscat
8. Fluid: $\text{H}_2\text{O}_2$
   - No corrosiu
   - No inflamable
   - De consistència biscosa
   - Anti-microorganismes patògens
   - Que creix lâmina
   - Que no s’evapori facilitat
9. Junta de Silicònia
10. Sensor de pes: WLC-SPPCL
    - Acrílica inoxidable
    - Capacitat de 5kg a 150kg
11. Bomba d’alta pressió (bomba Lenntech CRte 32)
    - Cavitat: 40m³/h
    - Pressió de funcionament: 30bar
    - Potència: 1,5 kW
12. Tub multicapa DN65: sistema ALB
    - Resistent a 70bar
13. Cable trenat per transport de dades
14. Capçal difusor
15. Cable elèctric de coure aïllat amb PVC
16. Omega d’acer inoxidable
17. Lâmina impermeable de EPDM
18. LED de colors amb el cablejat elèctric de coure aïllat amb PVC incorporat
19. Tub PVC

H2O r. Opening Doors
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STAGING

1. Material transport

2. Pavement lifting and implementation of the new system

3. Brancal anchor

4. Anchor the structure

5. Anchor the top frame

6. Implementation of the prototype
BUSINESS

Mainly, our proposal is directed to be sold within the framework of architectural firms. The designer would buy a new alternative to separate its spaces adaptively to the required dimensions of the project and the improvement of the flexibility and accessibility of passage from one space to another. Moreover, its minimal aesthetics allows easy implantation in a wide range of design spaces. Above all, it is intended to be implanted in places of controlled public access as exhibition halls, theaters, water and theme parks, hotels or shops. But also, to separate public spaces from private spaces like the kitchen of a restaurant from the dining room, as the door gives you some privacy.

Also it would be promoted the sensory and interactive experience for the user and the possibility of signaling using colorful illumination what you will find when passing the door.

For the sale of this innovative product, it could be possible to do co-branding with other companies and search for technological partners in fields such as: the irrigation of agricultural fields, water sprinklers and nozzles for washing cars (Straying Systems CO), drains (Ako), water pumps (Lenntech), manufacturers of stainless steel profiles, weight sensors (Wim Systems), etc.

SCENARIO