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Esprit Elegance

The article deals with the supply and installation of a system to create partitions for toilet, shower enclosures and related. The system allows for optimal cleaning floors and walls of the premises concerned. The cabins themselves are very low maintenance and can even, if necessary, be hosed with high-pressure cleaner. The cleaning of the floors may be done under the walls, with a minimum of disruption.

The walls are built to an extremely stable and rigid fully using all the necessary reinforcements, fixings and supports in stainless and low-maintenance materials. The whole is very solid and highly resistant to vandalism.

1. Material

Solid decorative high pressure laminate (HPL) according to EN 438, core consists of kraft paper impregnated with thermosetting synthetic resins, homogeneously reinforced with cellulose fibers. The top layer consists of fully-cured phenol / formaldehyde resins for the core and melamine / formaldehyde resins for the decor paper, which are pressed under high pressure and at elevated temperature until homogeneous plates.

At the top layer are additives added so that the plate is anti-bacterial.

	Unit	**test method**
specific weight	ca. 1.35 g / cm³	EN ISO 1183-1
reaction to fire	thickness ≥8 mm M2 / Cs2d0	certificate CTBA
(Euro Class)	6-8 mm M3 / Ds2d0	certificate CTBA
malleability	≥ 9000 Mpa	EN ISO 178: 2003
flexural-resistance	≥ 80 Mpa	EN ISO 178: 2003
tensile strength	≥ 60 Mpa	ISO R527: 1996
contact with power supply	allowed	
thickness tolerance	8 and 10 mm ± 0.50 mm	EN 438-2-5
	13 mm ± 0.60 mm	
tolerance on length / width	-0 / + 10	EN 438-2-6
tolerance on straightness of edges	≤ 1.5 mm / m	EN 438-2-7
tolerance on diagonals	≤ 1.5 mm / m	EN 438-2-8

tolerance on straightness	8 mm ≤ 5 mm / m 10 and 13 mm ≤ 3 mm / m	EN 438-2-9
wear resistance at	≥ 350	EN 438-2-10
resistance to water steam	class 4	EN 438-2-14
resistance in dry heat 180 ° C	class 4	EN 438-2-16
resistance in moist heat	class 4	EN 12721
resistance to cracking	class 4	EN 438-2-24
scratch resistance	category 3	EN 438-2-25
fastness to artificial light	≥ 4 gray tones	EN 438-2-27
Resistance to burning cigarettes	class 3	EN 438-2-30

The plates have a textured surface and are 13 mm thick.
The composition and structure of the sheet material are specially developed for applications in damp areas.

The building boards are assembled into partitions by means of constructive extruded aluminum profiles, natural anodized or powder coated with a thick polyester powder of about 60 microns. The wall thicknesses of all the aluminum profile is at least 2 mm.

The footrests are made of nylon, dyed in mass. The standard height of the feet is 150 mm.

Door fittings and all other fittings are made of nylon (polyamide) that is colored in the mass. The batter is capable of withstanding high temperatures, humidity and chemicals. The hinges are reinforced with a core made of galvanized steel.

Accessories (toilet roll, clothes hooks, ...) are an integral part of the system and become invisible confirmed.

2. Implementation

The height of the walls amounts to 2070 mm, including 150 mm in free space.

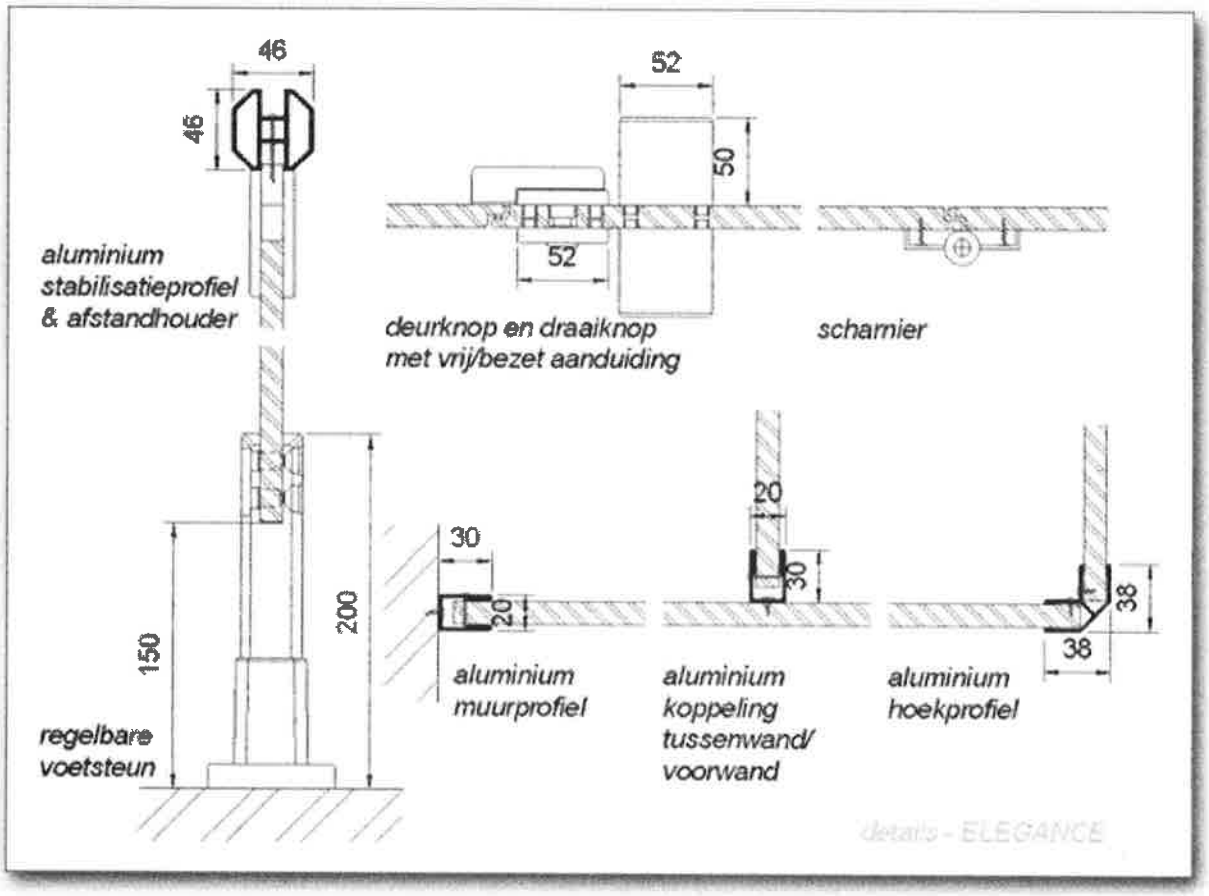
The walls are everywhere to lead pure and horizontally. Adjustable footrests are extremely stable and onkantelbaar with laminated plastic sheets attached. Wall connections and links between the walls at the front walls are fitted with aluminum U-profiles. For the attachment of the sanitary walls, holes of 50 mm deep and 6 mm in diameter are drilled into the walls and floors.

For walls are top with an octagonal stabilization profile, natural anodized or powder coated in color. This upper section is fixed to the walls using special aluminum spacers in the same style as the profiles and legs.
It gives the system a very elegant look.

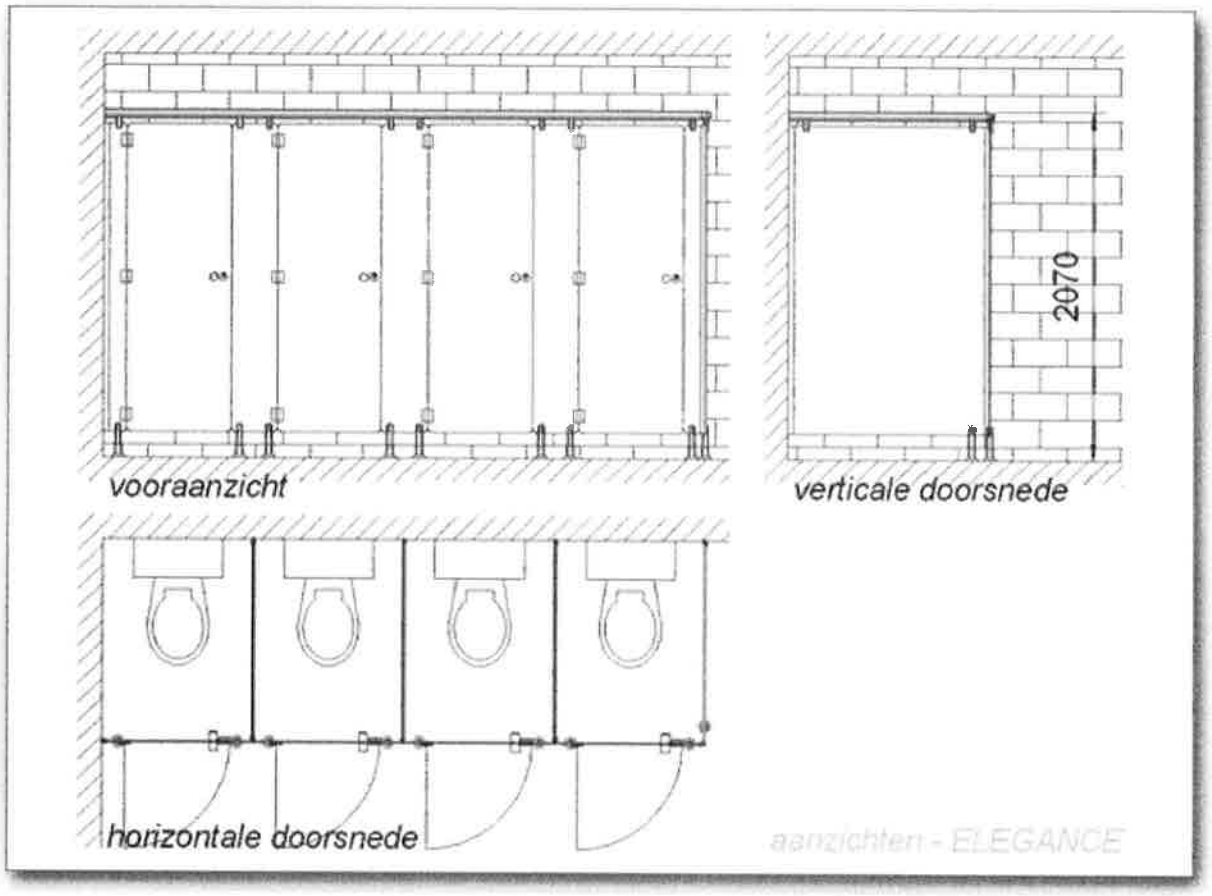
Door panels are provided with three hinges, one of which is equipped with an adjustable spring so that the doors always return in the closed position. The batter of the door consists of two door knobs and nylon knob 1 with free / busy indication, which can be opened in case of emergency to the outside. Are rounded off with a radius of 20 mm All the corners of the door leaves and for walls.

The doors are located in the same plane as the walls. The stop edges of the doors are milled so that additional aluminum velocity profiles are superfluous. The doorframes silencing bumpons be made so gently closing the doors.
All edges are rounded.

Detail drawing:



Face: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