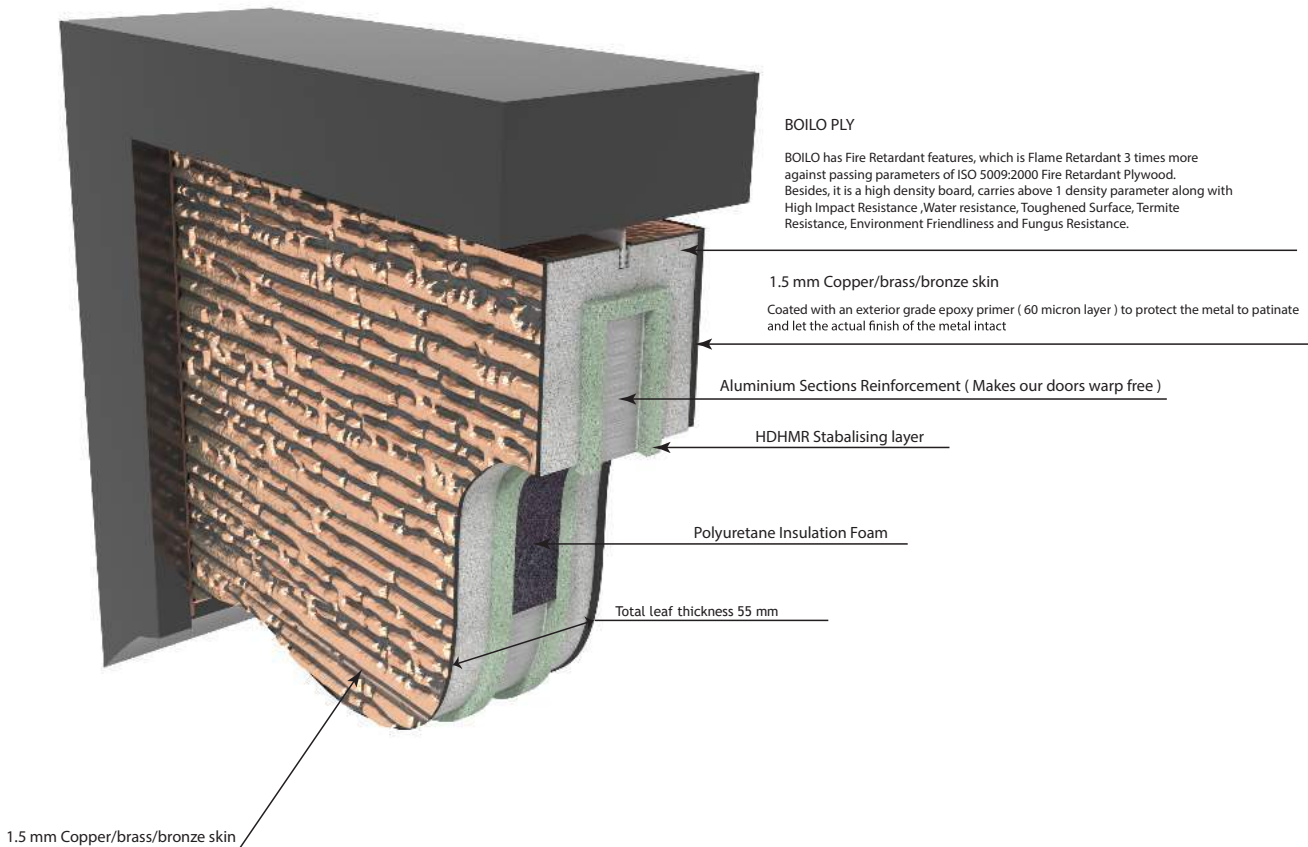
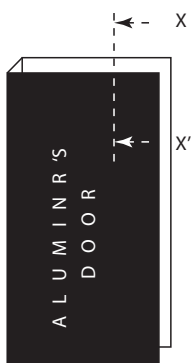


# DOOR STRUCTURE

a55 door section



CROSS SECTION LAYOUT  
XX'



## Exterior cover layer 1.5 mm of metal skin

The outer layer is a skin with the material intent Copper , brass or bronze . The skin is further coated with an exterior grade epoxy primer that lets the actual finish of the metal intact and prevents it from further oxidation . However the exterior grade epoxy primer has a tarnish rate too and depends on the external environmental conditions .

## 12 mm of Boilo plywood stabilizing layer

The other material Boilo , which is a type of plywood , has Fire Retardant features, which is Flame Retardant 3 times more against passing parameters of ISO 5009:2000 Fire Retardant Plywood. Besides, it is a high density board, carries above 1 density parameter along with High Impact Resistance, Water resistance, Toughened Surface, Termite Resistance, Environment Friendliness and Fungus Resistance

## – Aluminium Section Reinforcement - 100 mm x 25 mm ; 5

Aluminium section , full heighted , are structured letting our doors to stable and warp free .

## Calculated door leaf insulation of 1.112W/m2K

Our doors are insulated with closed cell polyurethane foam insulation making them highly thermally insulated and suitable for extreme -ve temprature conditions . Withstand temperature +70c to -30c

## Door slab weighs 6.8 - 7 kgs per sq. ft.

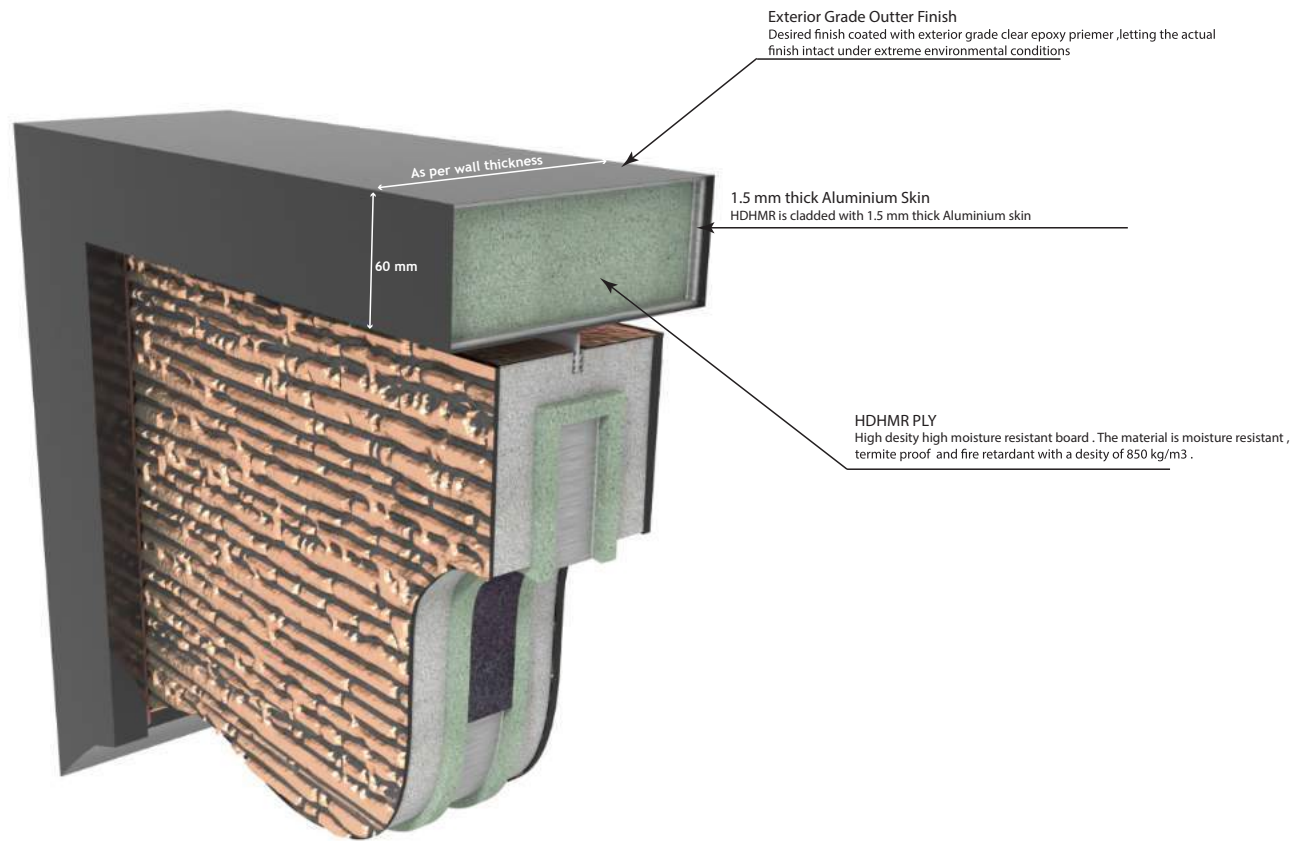
Contingent to both side metal work . Door handle weight should be considered additional .

## Interior cover layer 1.5 mm of metal skin ( Copper/brass/bronze )

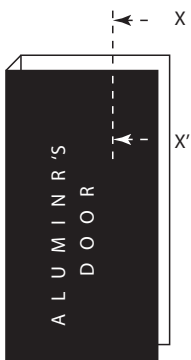
## Overall door thickness 55mm

# DOOR FRAME

a55 door frame section

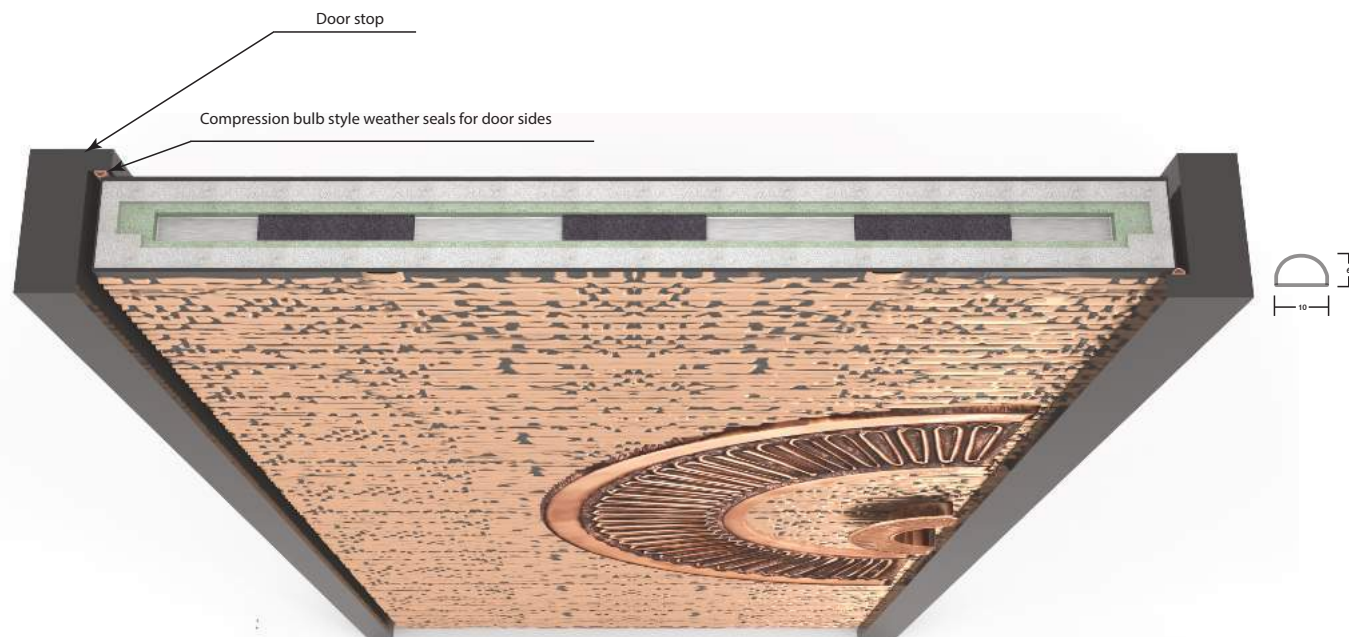


CROSS SECTION LAYOUT  
XX'



# WEATHER SEALS

## a55 door weather sealing



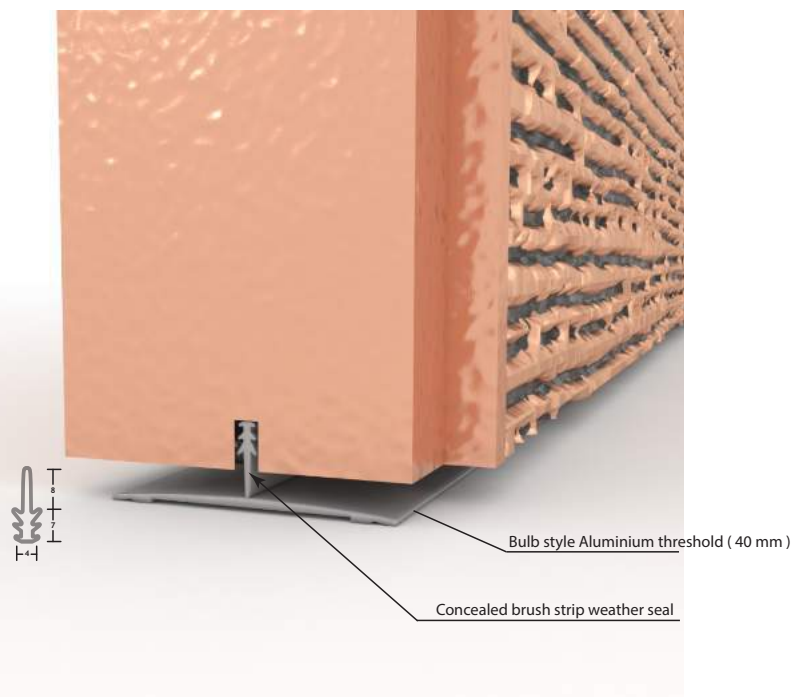
Door stop mounted bulb style compression seals for door sides

Used for acoustic , thermal and weather containment

Weatherseals withstand temperature -30 degree celcius to +70 degree celcius

Concealed brush strip seals incorporated with compression seals creates a heavy duty weather stripping

For additional protection against smoke and upgrading existing fire resistance , special weather stripping can be incorporated in our doors . ( On request )



Concealed brush strip seals for door bottom and top

# HARDWARE AND SECURITY

a55 door hardware



## Multi Point Locking



## Multi point High security Locking Mechanism incorporated with High security Cylinder

Case: Steel. Galvanized.  
Forend and Striking Plate: Alkali. Zinc plated.  
Deadbolt: Steel. Nickel plated. Nine bars.  
Latch: Brass. Nickel plated.  
Direction: Reversible.  
Certifications: TS EN 12209.

[Technical Documentation - here](#)

## Hydraulic floor machine pivot



## Floor spring for single leaf single and double-action doors of up to 1400 mm leaf and 300 kg weight capacity

Closing force with variable adjustment EN3-6  
Can be used for right and left hand doors without conversion  
Pivot point location at 70 mm from pivot point to short side  
Delayed closing adjustable to adapt the closing force of the door up to approx 80° opening angle  
Mechanical hold-open unit in the door closer with hold-open area 85°-165°  
Hydraulic latching action which accelerates the door shortly before the closed position  
Closing speed can be individually adjusted  
Integrated back check, slows down doors that are thrown open forcefully  
All functions can be adjusted from above and in the installed state

[Technical Documentation - here](#)

# OPTIONALS

## Concealed pivot systems



### Free Swing



### Free Swing Concealed Pivot System

No Width or Height limitations  
Maximum weight bearing capacity - 500 kgs  
Free swing , without open hold open or damping  
Pivot point location Min. 91 mm from pivot point to short side  
Fully Integrated within door shutter  
For double- and single-acting doors

[Technical Documentation - here](#)

### Self Closing



### Concealed pivot System with adjustable closing speed, hold open, and backcheck functions.

No Width or Height limitations  
Maximum weight bearing capacity - 500 kgs  
Self-closing pivot hinge  
Damper Control (soft close and wall protection)  
Hold positions at 0°, 90° and -90°  
Pivot point location Min. 91 mm from pivot point to short side  
Fully Integrated within door shutter  
For double- and single-acting doors

[Technical Documentation - here](#)