

# Fire Steel Door

## New Type Frame + Door

This Frame+Door structure is inherent to Kumsung door and gives a neat and simple feeling. Security function is strengthened compare with existing system.

### -Features and benefits

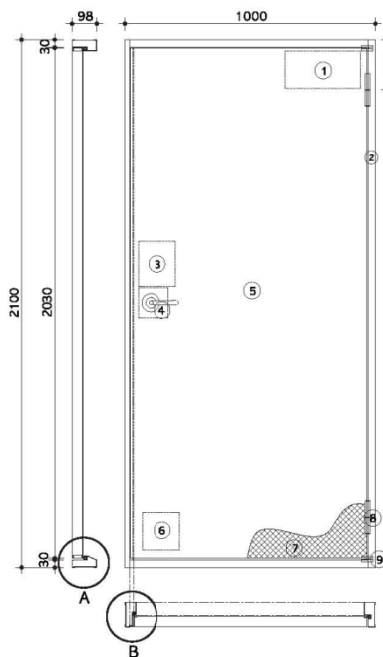
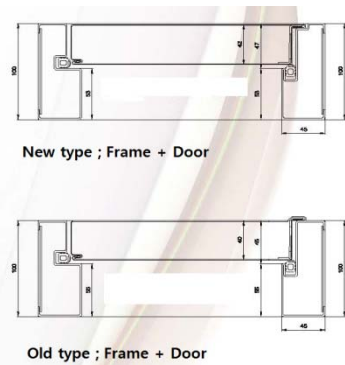
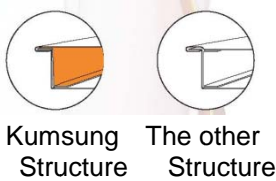
- 1) Tongue and groove type combination of Door and Frame strengthen the security function
- 2) Windbreak part is flat which makes easy stacking and delivery
- 3) Frame is made of 1.6t packing bar and Pivot hinge is basic specification.



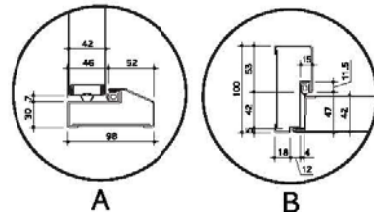
Standard size : 900(w) x 2100mm (H)  
1000(w) x 2100mm (H)

## Details of Fire Steel Door

Z – inner frame is Kumsung’s registered patent. ( Patent No. 10-2010-0072699 )

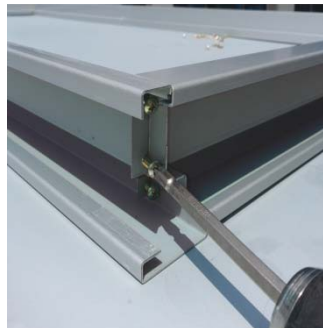


- 1) Door check reinforcement ; Steel 0.8T (300 x 150 x 0.8T)
- 2) Frame : Steel 1.6T (1000 x2100 x 100)
- 3) Spare key reinforcement ; Steel ;0.8T (150 x 180 x 0.8T)
- 4) “C” reinforcing ; Steel : 1.2T (115 X 120 x 40)
- 5) Door – Steel 0.7T (932x 2030 x 40)
- 6) Horse Foot Reinforcement (150 x 150 x 0.8T)
- 7) Honey comb core
- 8) Flag Hinge
- 9) Pivot Hinge



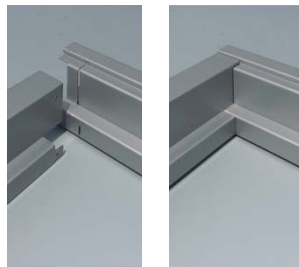
## Non-welding processed Frame

Combining by welding is upgraded by direct coupling with bolt , which gives neat finish appearance and allows simple and clean assembly with the painted color steel/ stainless steel bars,.



Comparison with welding  
And direct coupling

Bars & tools before assembly



Direct coupling bolt connection  
25-30 ea piece bolts are used  
for 4 sides of frame.

## Features and Benefits

1. Welding procedures are removed. Accordingly related works and tools such as Welder, welding rod, machining work, etc are not required.
2. Remarkable effect in assembly of color steel and stainless steel assembly of painted bar and quick action for the customer size are also available
3. Everybody can do assembly work easily with Motor drill and direct Coupling bolt at any place, which enabling the shipping bars without pre-Assembling and thereby reduces the Logistics cost.
4. Strength based on Non-welding process is almost same as the welding. In some aspect, there are more merits as mentioned above.

## Wrapping frame

Due to non-welding process, various and fancy colors can be adapted for the harmonization with the exiting colors and patterns of wall.



Harmonization between door  
and wall can be made through  
Wrapping Frame  
Economical compare with existing  
powder coating .



Various color matches  
are available.

## UV Printer

State of the art U/V Flat sheet printer is used for the Kumsung doors which enables the customer ordering patterns, pictures, company logos, etc on the fire doors

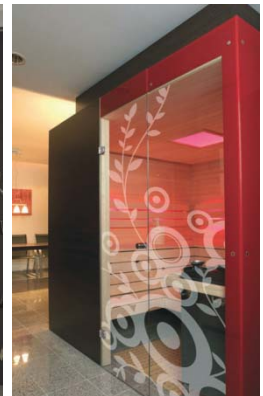
U/V Flat sheet printer can print the various patterns /designs on paper, steel Sheets, glass , leather, wood with high definition.



## Example of Fire Doors using UV printer



▲ Applied to Fire Door



▲ Applied to Glass ( printing on the back )



▲ Applied to partition



▲ Folding door



▲ Applied to shops



## Stainless Steel Ornaments gives an variety in your choice.

Various material combinations allow another display effects compare with existing hairline stainless ornaments.

Initials of stainless steel ornaments are expressed, which shall be referred to the order sheet



## Fire door Model Number identification

- BK 613 TB**
- BK** : Materials of Stainless Steel
- 613** : Products Model No.
- TB** : Materials of Color steel sheet

## Self - Design system

From existing standard model, various changes can be available with limitation  
This system offers various changes to existing model through combinations as far as it is available under existing process.



## Typical models of Fire Steel Doors

800 Series - 1



BK-824-GH

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-824-RB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-801-B

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BR-808-R

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-808-B

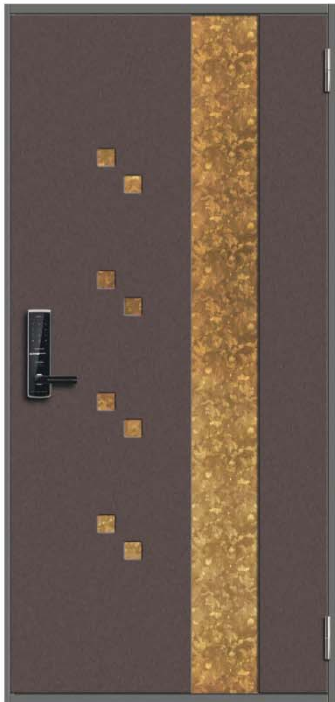
STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BK-801-H

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)

800 Series - 2



GL-803-R

STANDARD SIZE  
900(W) × 2100mm(H)  
1000(W) × 2100mm(H)



BK-805-H

STANDARD SIZE  
900(W) × 2100mm(H)  
1000(W) × 2100mm(H)



BR-805-R

STANDARD SIZE  
900(W) × 2100mm(H)  
1000(W) × 2100mm(H)



BR-804-M

STANDARD SIZE  
900(W) × 2100mm(H)  
1000(W) × 2100mm(H)



GL-806-TB

STANDARD SIZE  
900(W) × 2100mm(H)  
1000(W) × 2100mm(H)



SV-806-B

STANDARD SIZE  
900(W) × 2100mm(H)  
1000(W) × 2100mm(H)



700 Series -1



769-TB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BK-713-H

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BR-719-M

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-754-RB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



GL-712-R

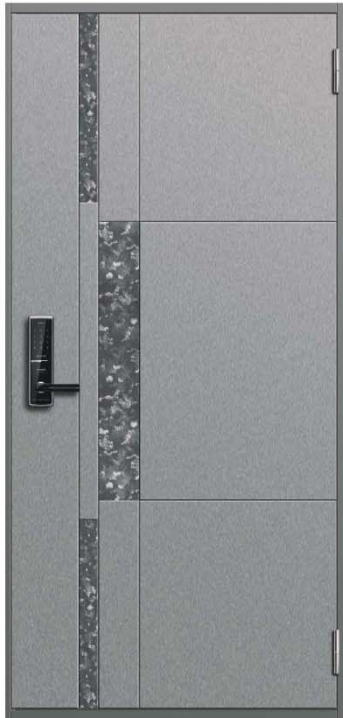
STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-758-B

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)

700 Series - 2



BK-724-G

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-724-RB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-756-R

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BK-757-H

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



GL-717-TB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



GL-700-M

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



600 Series - 1



SV-641-RB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BK-643-H

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BK-665-GH

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



SV-634-B

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



BK-631-H

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)



GL-656-TB

STANDARD SIZE  
900(w) × 2100mm(h)  
1000(w) × 2100mm(h)

600 Series – 2



SV-651-B

STANDARD SIZE  
900(w)×2100mm(h)  
1000(w)×2100mm(h)



GL-635-TB

STANDARD SIZE  
900(w)×2100mm(h)  
1000(w)×2100mm(h)



SV-636-RB

STANDARD SIZE  
900(w)×2100mm(h)  
1000(w)×2100mm(h)



BR-647-M

STANDARD SIZE  
900(w)×2100mm(h)  
1000(w)×2100mm(h)



BK-638-H

STANDARD SIZE  
900(w)×2100mm(h)  
1000(w)×2100mm(h)



SV-603-GH

STANDARD SIZE  
900(w)×2100mm(h)  
1000(w)×2100mm(h)

600 Series – 3



**GL-613-TB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-609-B**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**GL-604-GH**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**612-G**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-633-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-632-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



500 Series – 1



**GL-514-TB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-514-G**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-533-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-573-B**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**501-GH**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**GL-536-R**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)

500 Series -2



**SV-516-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-516-GH**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-511-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**GL-500-M**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-508-G**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-509-B**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)

500 Series 3



**SV-515-TB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-515-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-532-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BK-571-G**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-534-B**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**BR-535-R**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



500 Series – 4



**BK-531-G**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-571-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-572-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-504-GH**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**SV-574-B**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**GL-507-TB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)

400 Series -1



**409-R**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**408-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**407-B**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**406-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**411-G**

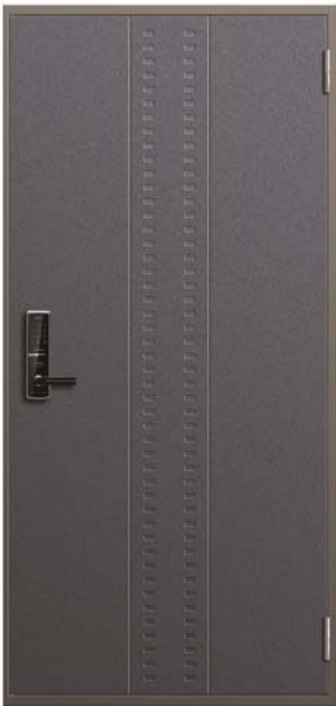
Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**413-H**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)

400 Series -2



**413-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**411-GH**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**Gallery - G**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**403-TB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**402-RB**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**401-R**

Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



300 Series – 1

300 Series are the printed products with combination of beading



**327 M**

Standard Size  
800(W) x 2100(H)  
1800(W) x 2100(H)



**325 M**



**314 GH**

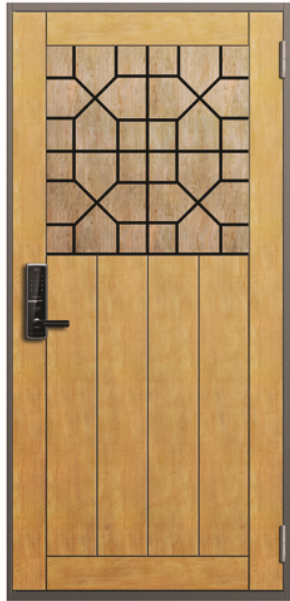


**317 GH**



**319 GH**

300 Series – 2



**308 P** (P: 전체인쇄) Standard Size  
900(W) x 2100(H)  
1000(W) x 2100(H)



**304 GH**



**305 R**



**306 H**



**303 B**

200 Series



215 G

Standard Size  
800(W) x 2100(H)  
1000(W) x 2100(H)



212 H



227 TB



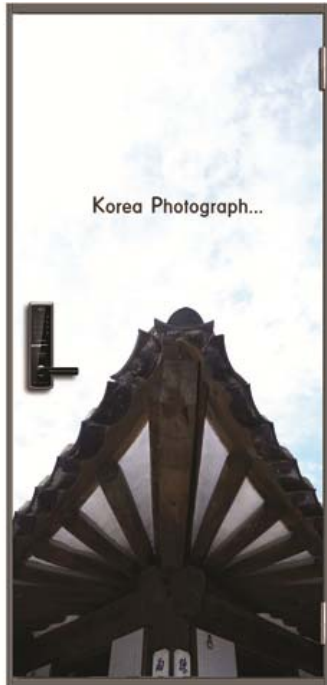
223 RB



211 H

Clients' Design

Designs are supplied by Clients



**TYPE A**

Standard Size  
800(W) x 2100(H)  
1000(W) x 2100(H)



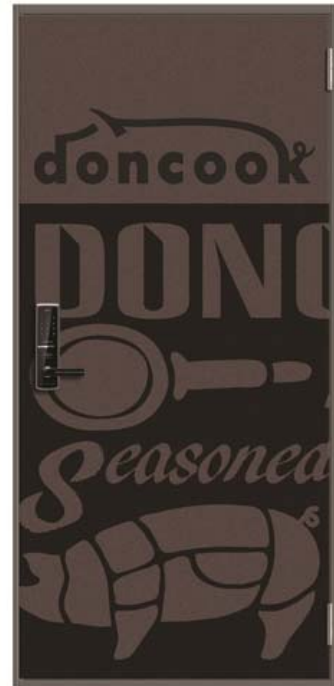
**TYPE B**



**TYPE C**



**TYPE D**



**TYPE E**