



Scan to know more



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INDIA'S  
**No. 1**  
STRUCTURAL STEEL TUBE COMPANY



**APOLLO**  
**CHAUKHAT**<sup>TM</sup>  
STEEL DOOR & WINDOW FRAMES

*PROMISING A  
SUSTAINABLE FUTURE WITH  
THE STRENGTH OF STEEL*



We save the environment by saving  
2.5 Lakh trees every year. Every  
10 Apollo Chaukhat saves a tree.

\*India's No. 1 by Market Share

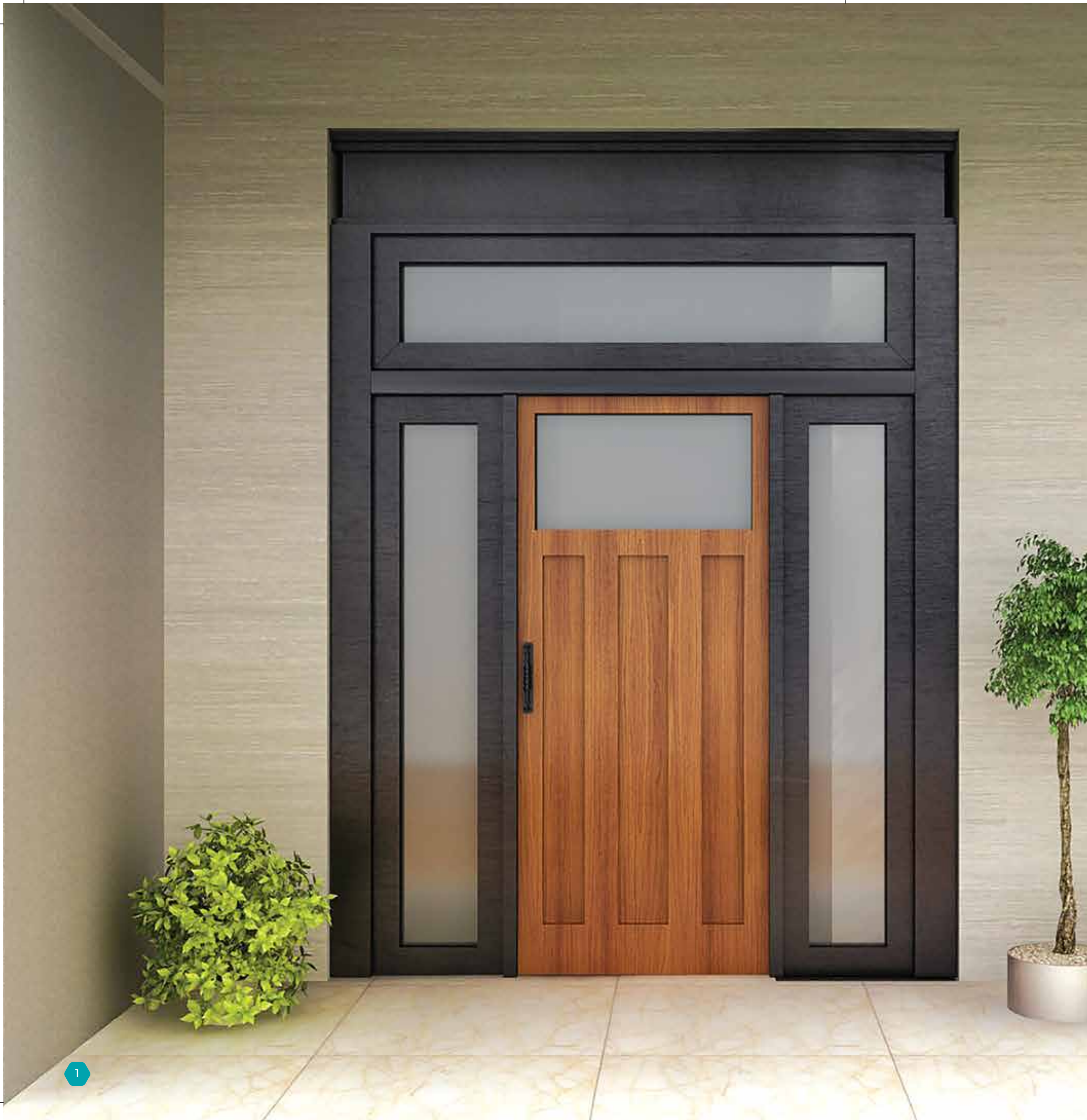




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Sudesh Group

Sudesh Group is India's leading Steel Tubes and PVC Pipes manufacturer with 14 plants across different locations in the country. It's a pioneer in making steel tubes of different types and shapes. For over 3 decades, SG Group has been revolutionizing the Steel Tubes manufacturing industry.



APL Apollo, a part of SG Group, is the country's largest manufacturer of steel pipes and tubes. Using High Frequency Induction Welding Technique (HFIW), APL Apollo has a capacity to produce 3.6 million tonnes of pipes per annum. The company is the unrivalled pioneer of Direct Forming Technology (DFT) as well as many other innovative products in the country.



Traditionally, in India, wooden frames are used for doors and windows, but as we have seen, these frames have several shortcomings. To start with, they are expensive, prone to termites and are inflammable. Moreover, installation is very time consuming and the look deteriorates with time.

But all this is about to change with Apollo's Chaukhat - India's first closed steel door and window frames. Frames can now be installed in just a few simple steps. Made of quality steel, you're assured of strength, durability, and quality without compromising on aesthetics. And, of course, termites don't stand a chance against the might of steel. You don't just save money but also precious trees. So go ahead, make the perfect choice with Apollo Chaukhat.

**FIRST COMPANY IN INDIA  
TO BE RECOGNIZED BY**



\*Building Materials and Technology Promotion Council (BMTPC) is an autonomous body under "Ministry of Housing and Urban Affairs, GOI.



## ADVANTAGES OF APL APOLLO CHAUKHAT







| APOLLO CHAUKHAT | ADVANTAGES           | MARBLE/CONCRETE |
|-----------------|----------------------|-----------------|
| ✓               | Environment Friendly | ✓               |
| ✓               | Termite & Pest Proof | ✓               |
| ✓               | Cost-Effective       | ✗               |
| ✓               | Easy Installation    | ✗               |
| ✓               | No Breaking Issue    | ✗               |
| ✓               | Resale Value         | ✗               |
| ✓               | Recyclable           | ✗               |
| ✓               | Damp Proof           | ✗               |

| APOLLO CHAUKHAT | ADVANTAGES           | WOOD |
|-----------------|----------------------|------|
| ✓               | Environment Friendly | ✗    |
| ✓               | Termite & Pest Proof | ✗    |
| ✓               | Cost-Effective       | ✗    |
| ✓               | Easy Installation    | ✗    |
| ✓               | Low Maintenance      | ✗    |
| ✓               | Resale Value         | ✗    |
| ✓               | Recyclable           | ✗    |
| ✓               | Damp Proof           | ✗    |



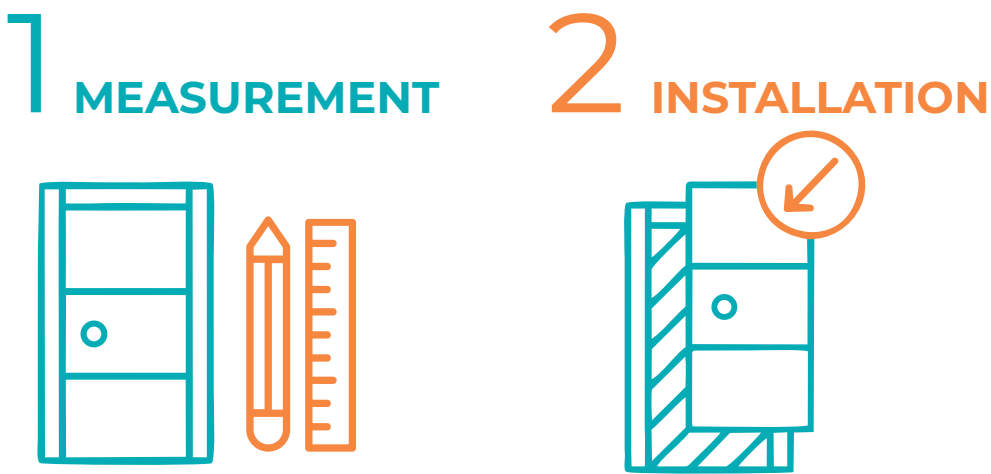
| APOLLO CHAUKHAT | ADVANTAGES                | OPEN FRAME |
|-----------------|---------------------------|------------|
| ✓               | Environment Friendly      | ✓          |
| ✓               | Termite & Pest Proof      | ✓          |
| ✓               | Cost-Effective            | ✗          |
| ✓               | No Need To Break The Wall | ✗          |
| ✓               | Ease Of Door Fitting      | ✗          |
| ✓               | Resale Value              | ✗          |
| ✓               | Recyclable                | ✗          |
| ✓               | Damp Proof                | ✗          |

# FITS EASILY AND FASTER THAN WOODEN FRAMES



Another reason to choose Apollo Chaukhat is its quick installation process which is nothing short of magic. At the time of construction, as compared to wooden frames, which has to be fitted during construction, Apollo Chaukhat can be fitted post-construction in just two easy steps, like any modern PLUG & PLAY.

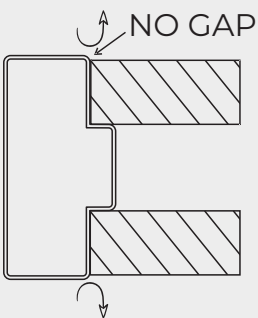
## TWO-STEP PROCESS



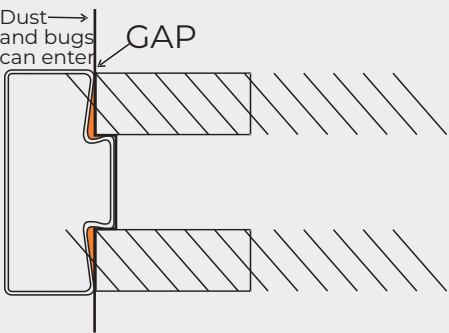
# NO GAPS FOR BUGS AND DUST

Apollo CHAUKHAT is a closed door frame which takes no time in installation, looks beautiful and shields the house from dust and bugs.

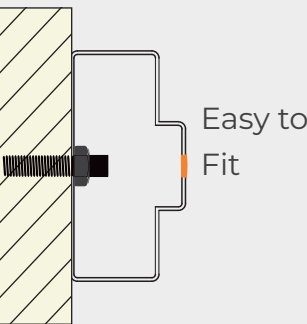
Apollo Chaukhat



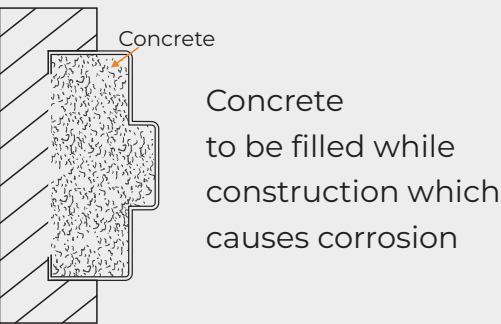
Conventional Door Frames



Apollo Chaukhat



Other Open Door Frame



## OUR WIDE RANGE OF DOOR FRAMES

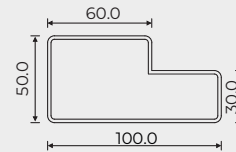




# DOOR FRAMES

Apollo Chaukhat has a wide range of frames for doors. These cost-effective and easy-to-fit door frames are made up of quality steel and come in various sizes. For an aesthetic house, these door frames are the perfect choice.

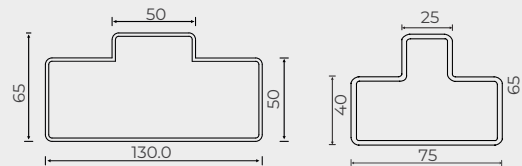
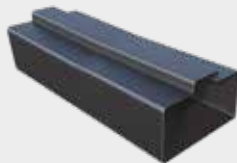
## Single Door Frames



**Size**  
100 x 50 mm

**Thickness**  
1.0 - 2.5 mm

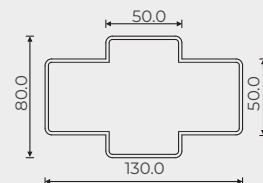
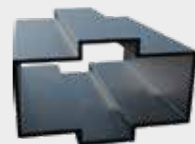
## Double Door Frames



**Size**  
130 x 65 mm  
75 x 65 mm

**Thickness**  
1.4 - 2.5 mm

## Four Door Frames



**Size**  
130 x 80 mm

**Thickness**  
1.4 - 2.5 mm

## CERTIFICATION

In the opinion of Building Materials & Technology Promotion Council's Board of Agreement (BMBA), **Apollo Chaukhat Door and Window Frame Sections** bearing the mark manufactured by M/s Apollo Tricoat Tubes Ltd. is satisfactory if used as set out above in the text of the Certificate. This Certificate **PAC No. 1052-P/2020** is awarded to **M/s Apollo Tricoat Tubes Ltd.**, Ghaziabad, Uttar Pradesh.

The period of validity of this Certificate is for a period of One year i.e. from 13/01/2020 to 12/01/2021 as shown on Page 1 of the PAC.

This Certificate consists of a cover page and pages 1 to 23.



On behalf of BMTPC Board of Agreement, Chairman, Technical Assessment Committee (TAC) of BMBA & Member Secretary, BMTPC Board of Agreement (BMBA) Under Ministry of Housing and Urban Affairs, Government of India

Place: New Delhi

Date: 13.1.2020

Dr. Shailesh Kr. Agrawal  
Chairman, TAC  
& Member Secretary, BMBA  
Building Materials and Technology Promotion Council  
Ministry of Housing and Urban Affairs, Govt. of India  
Core 5A, 1st Floor, India Habitat Centre  
Lodhi Road, New Delhi-110003

*Signature of Dr. Shailesh Kr. Agrawal*



# APOLLO CHAUKHAT INSTALLATION PROCESS



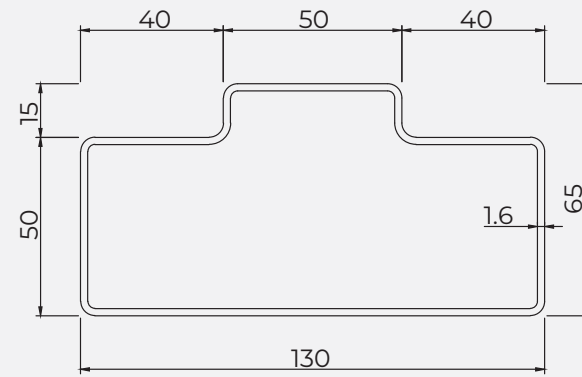
Process-1



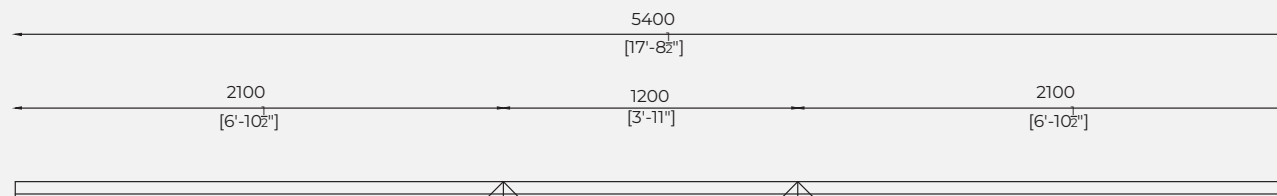
**WELDING PROCESS  
OF MS BLACK AND GP**

## STEP-1

TAKE A DDF (130X65X1.6) OF 5400MM FOR WALL OPENING OF SIZE (1200X2100) AND THEN MAKE TWO CUTS OF 45° AT 2100MM FROM ONE END AND AGAIN AT 1200MM FROM THE FIRST CUT, THEN WE HAVE THREE CUT PIECES OF DDF.



"DOUBLE DOOR FRAME (SDF) (130X65X1.6)"

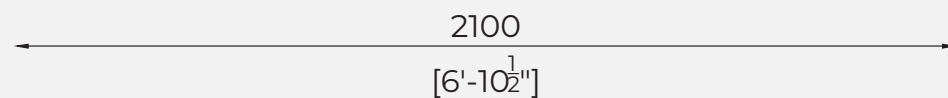


45° 45°

CUTTING

45° 45°

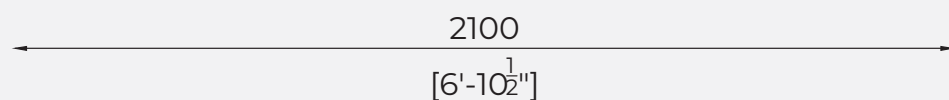
CUTTING



PIECE 1



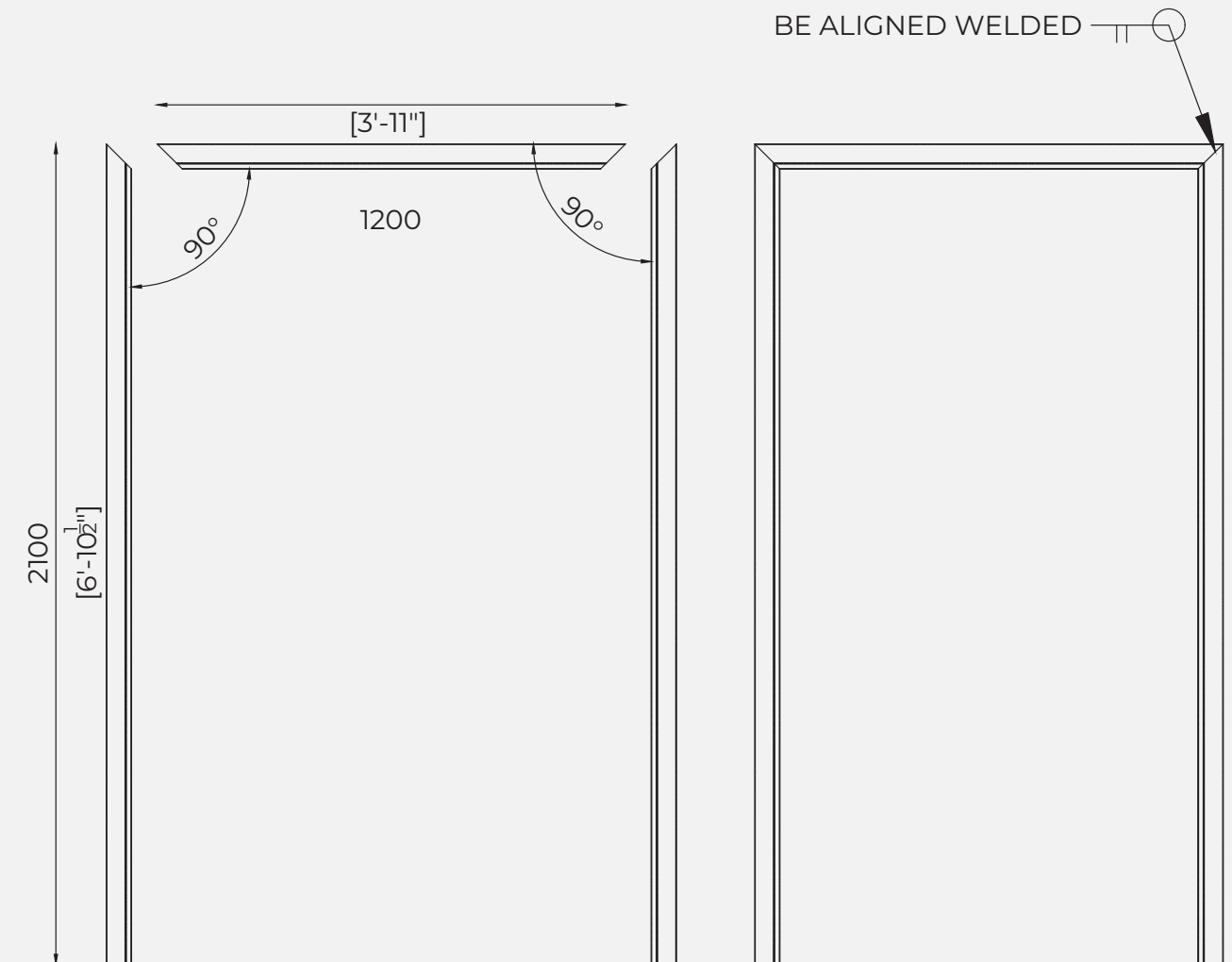
PIECE 2



PIECE 3

## STEP-2

ARRANGE THESE THREE PIECES IN A WAY THAT THE ANGLE BETWEEN EACH PIECES IS 90° AND JOIN THEM BY THE WELDING PROCESS FOLLOWED BY THE GRINDING PROCESS FOR THE SMOOTH SURFACE AT THE JOINT ENDS.



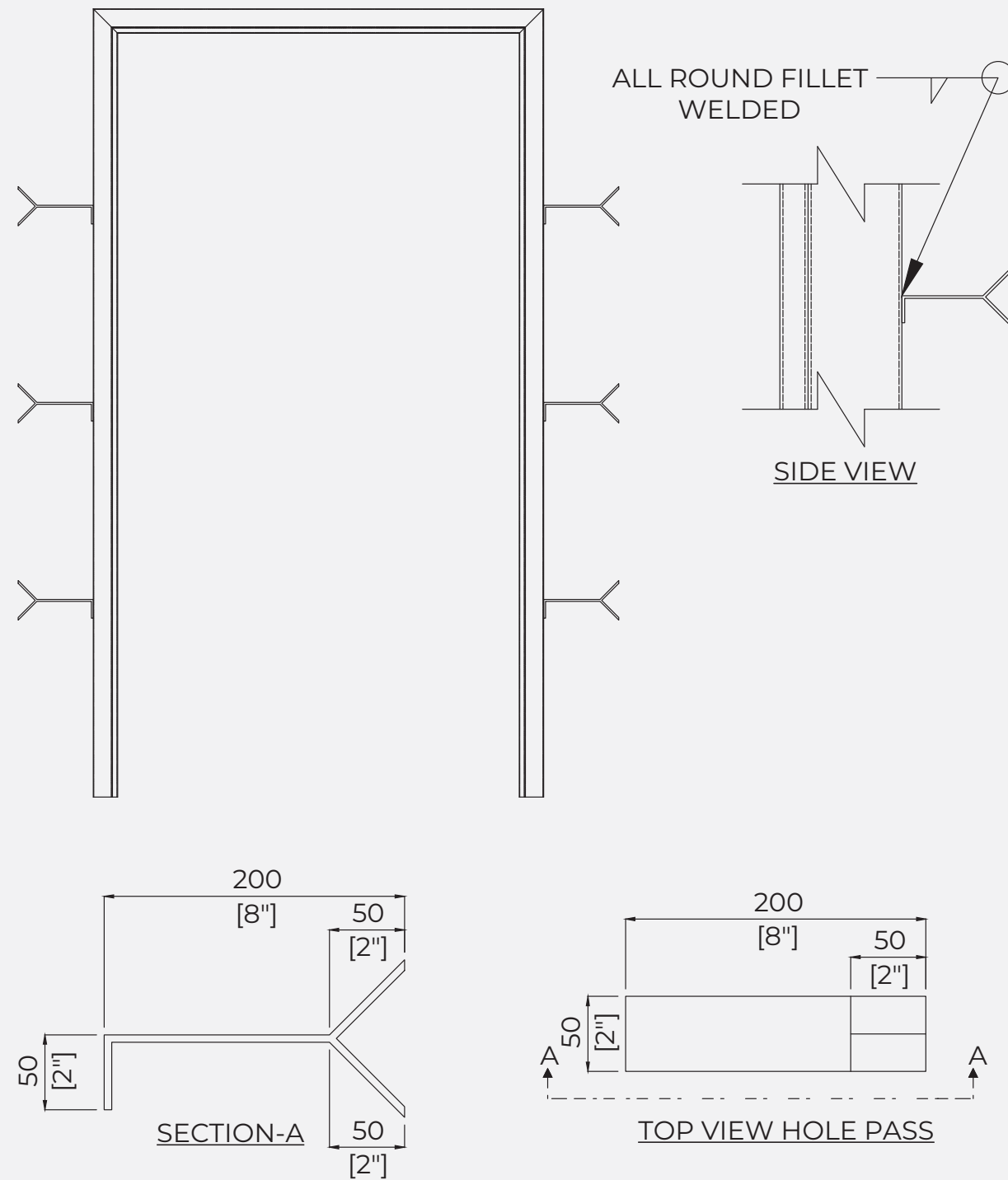
BEFORE WELDING

AFTER WELDING  
AND GRINDING



### STEP-3

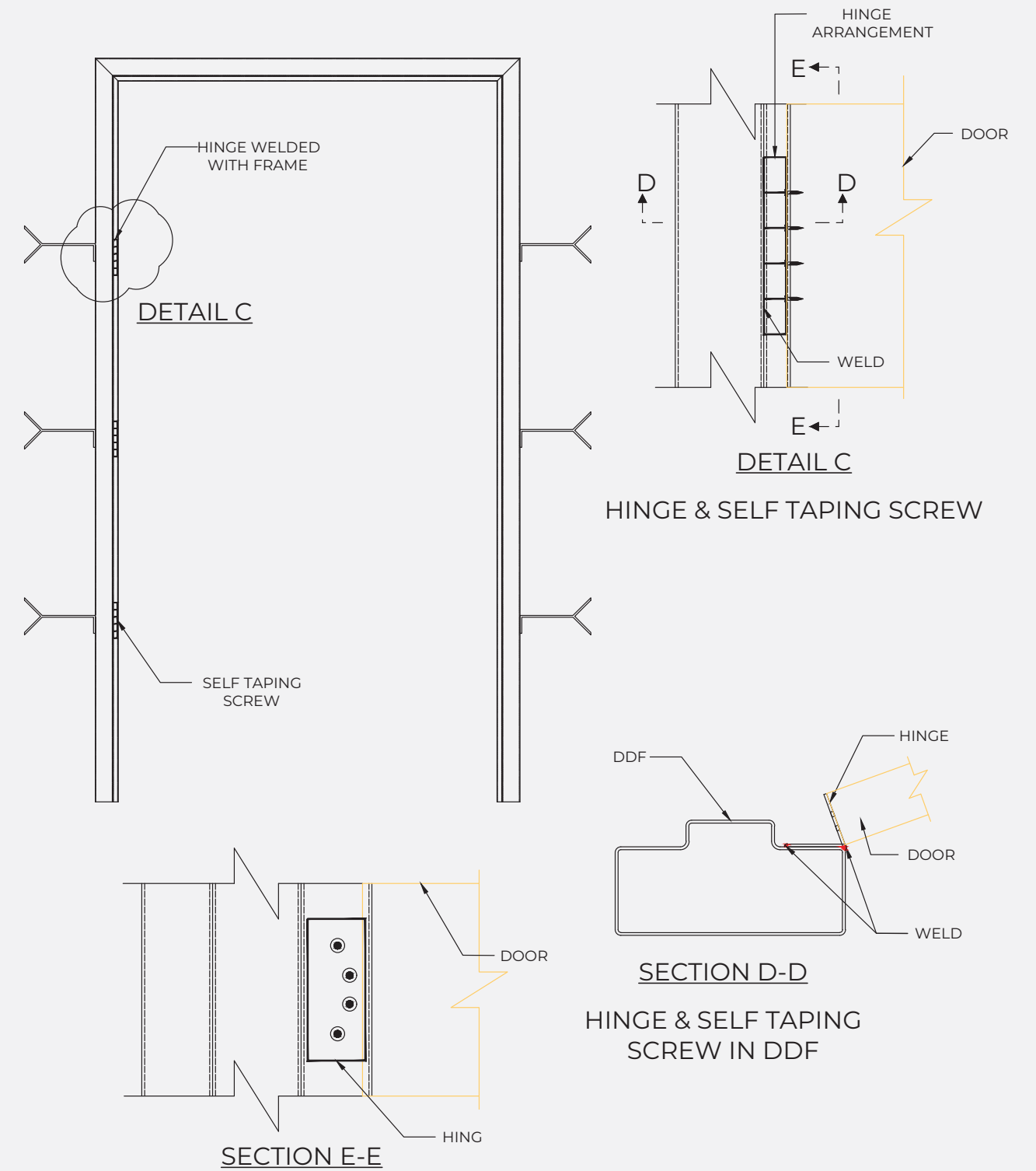
6 NOS. OF HOLE PASS TO BE WELDED WITH DOOR FRAME.



\*THICKNESS OF HOLE PASS MAY VARY 3-5 MM

### STEP-4

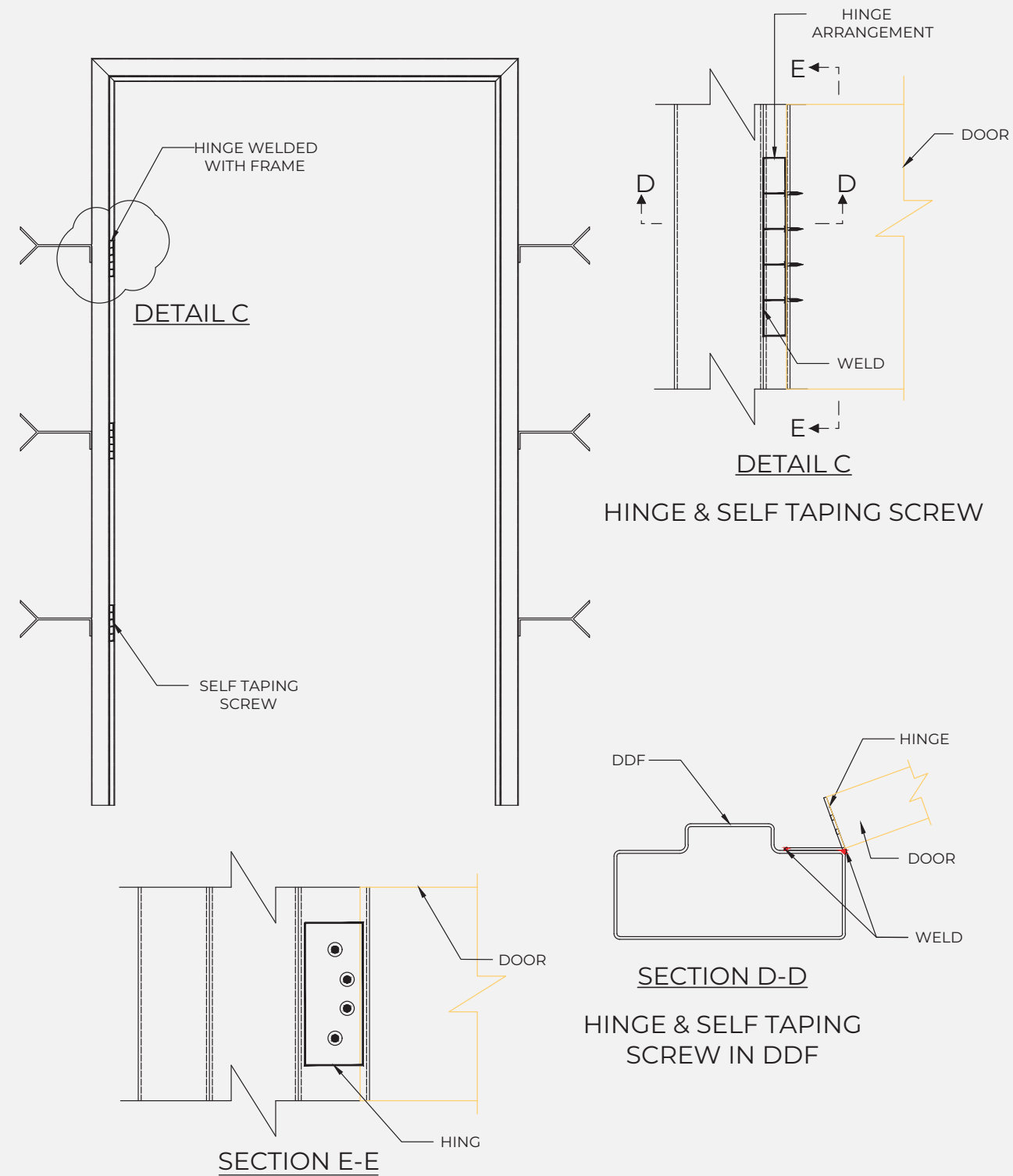
HINGES ARE BEING FIXED WITH THE HELP OF WELD WITH DOOR FRAME



HINGE ARRANGEMENT WITH OPEN DOOR

## STEP-4

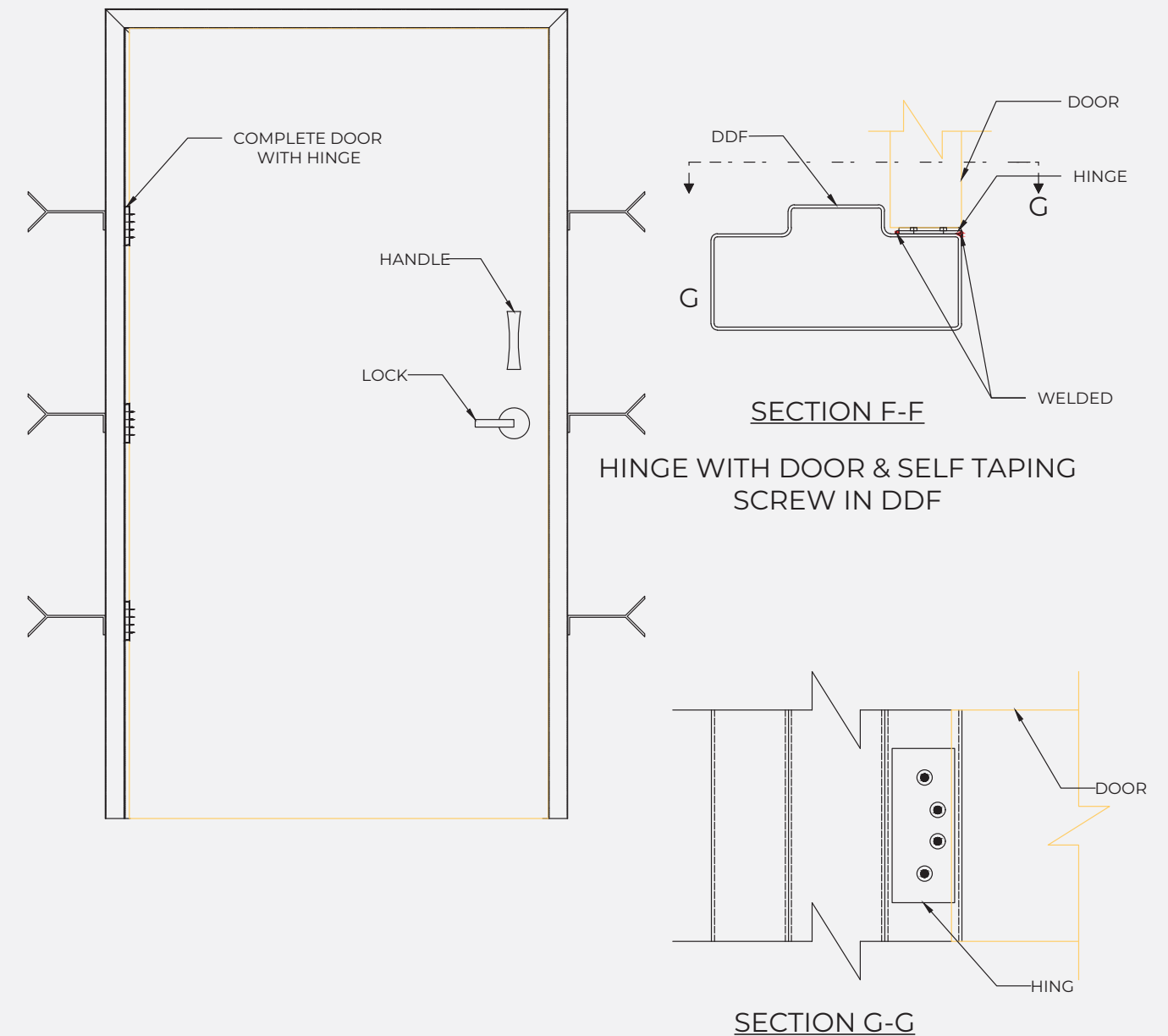
HINGES ARE BEING FIXED WITH THE HELP OF WELD WITH DOOR FRAME



HINGE ARRANGEMENT WITH OPEN DOOR

## STEP-5

FINALLY THE DOOR IS PLACED IN THE FRAME AND THE HINGES ARE FIXED WITH THEM, AND ADDITIONALLY THE LOCK AND HANDLE WILL ALSO BE FIXED WITH THE DOOR.



HINGE ARRANGEMENT WITH OPEN DOOR



## Process-2

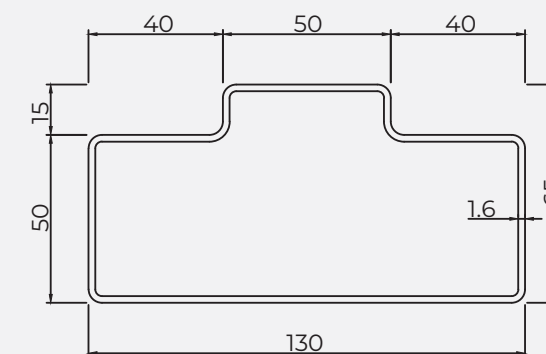


## MODULAR CHAUKHAT

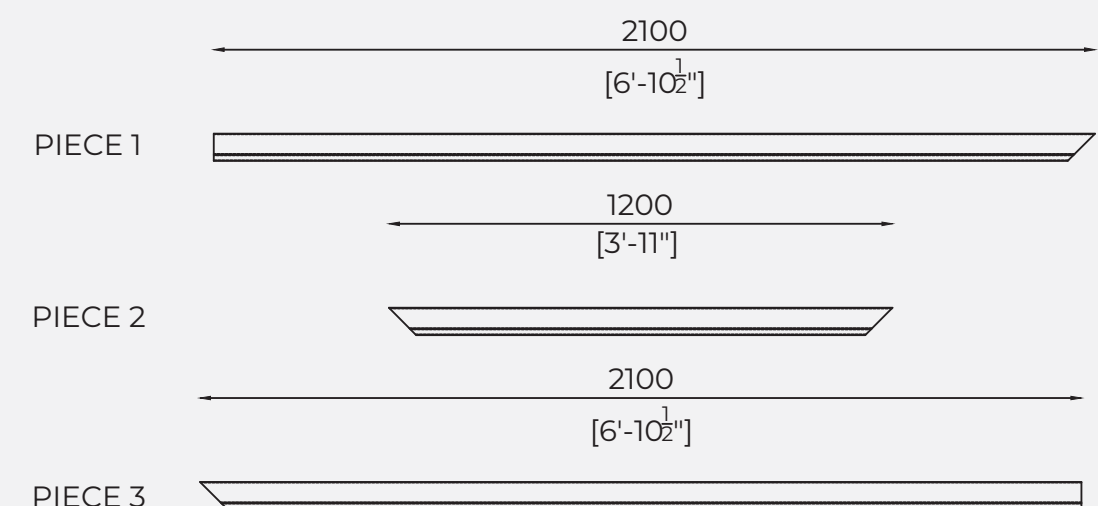
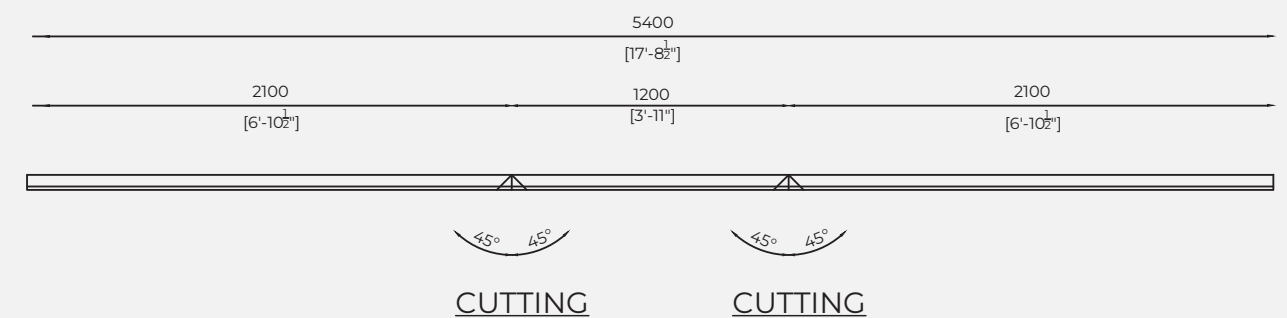
# MODULAR CHAUKHAT INSTALLATION MANUAL

## STEP-1

TAKE A DDF (130X65X1.6) OF 5400MM FOR WALL OPENING OF SIZE (1200X2100) AND THEN MAKE TWO CUTS OF 45° AT 2100MM FROM ONE END AND AGAIN AT 1200MM FROM THE FIRST CUT, THEN WE HAVE THREE CUT PIECES OF DDF.

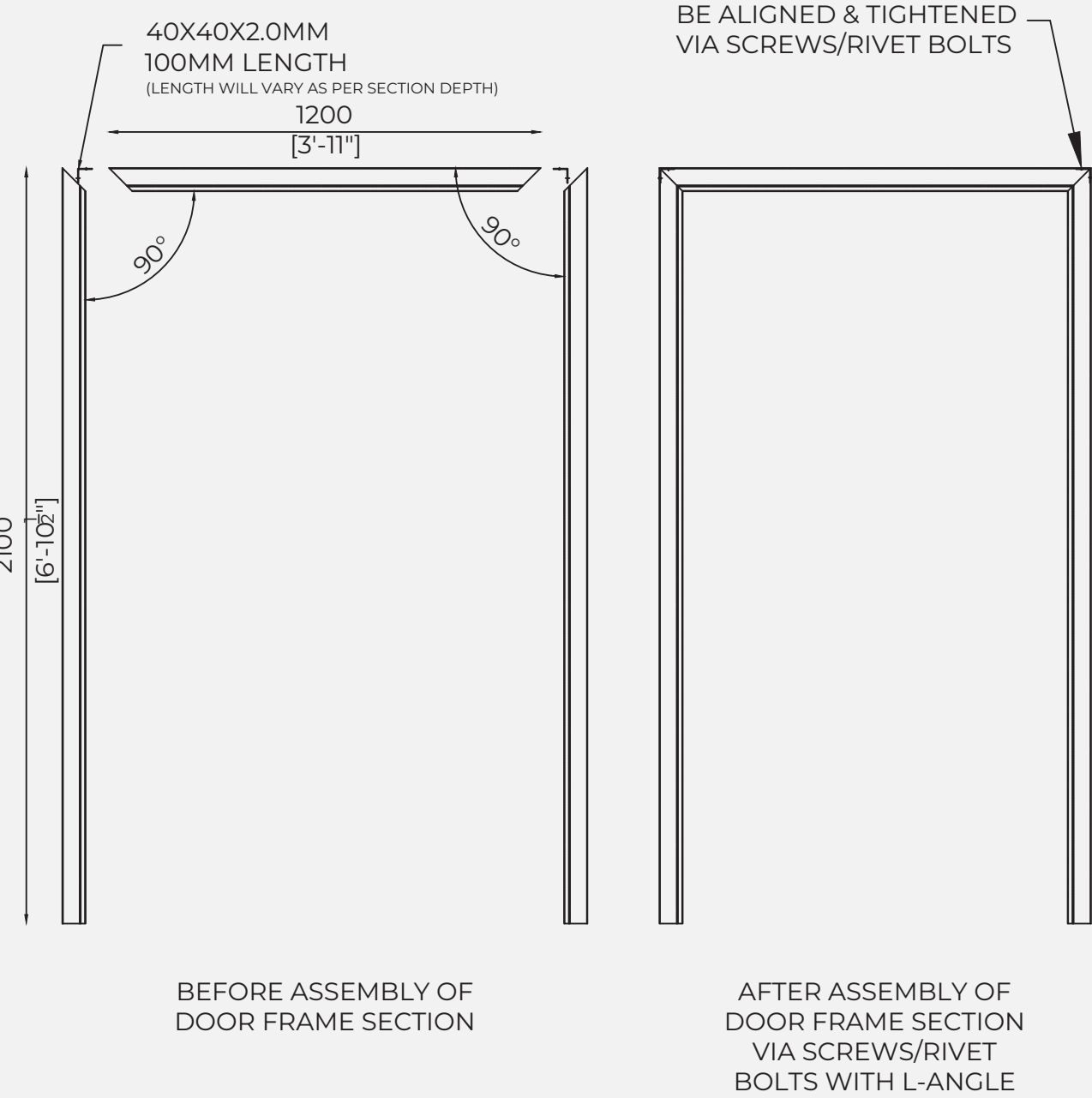


"DOUBLE DOOR FRAME (SDF) (130X65X1.6)"



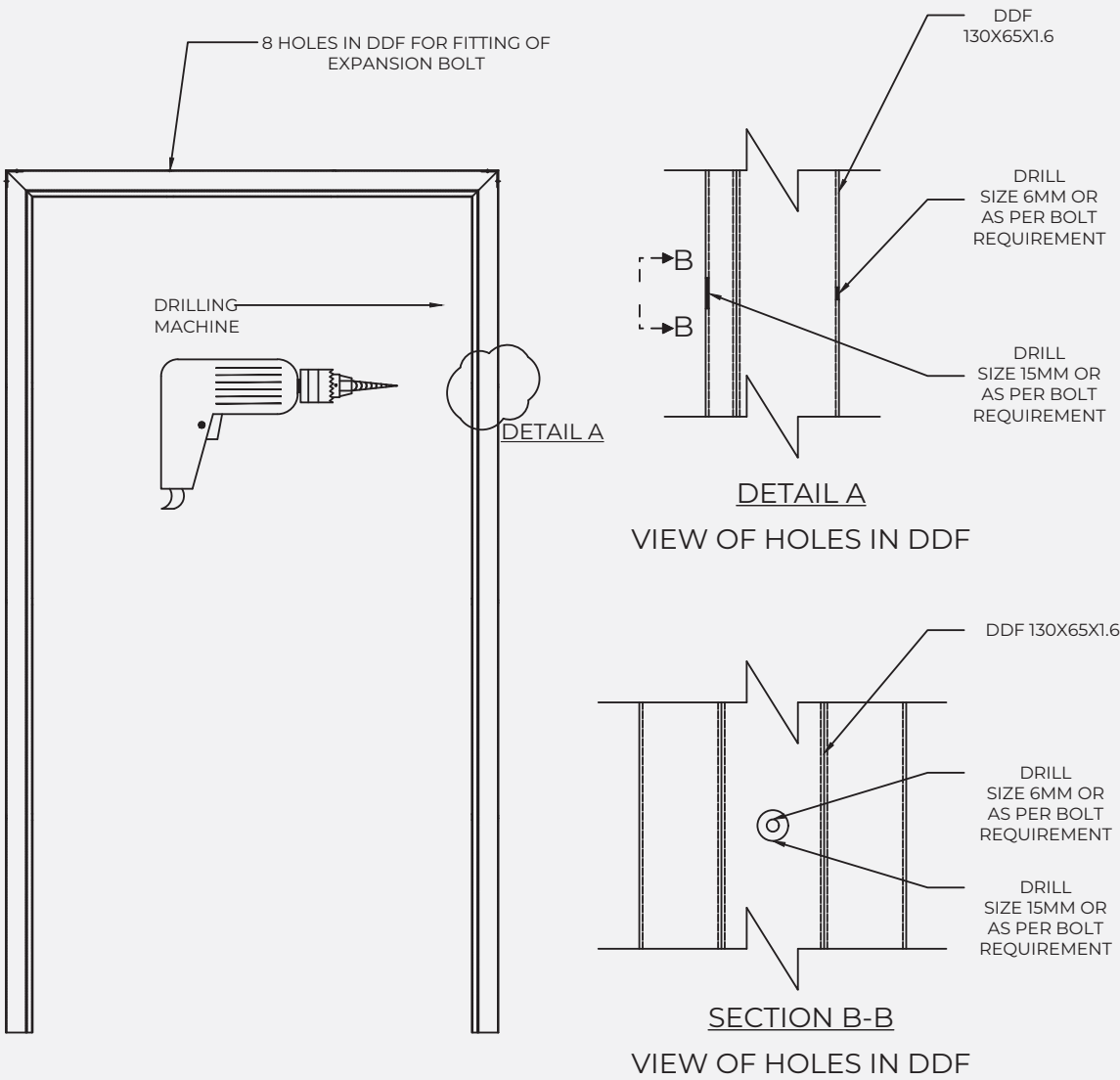
STEP-2

ARRANGE THESE THREE PIECES IN A WAY THAT THE ANGLE BETWEEN EACH PIECE IS 90° AND JOIN THEM AT L-ANGLE WITH SCREWS/RIVET BOLTS.



STEP-3

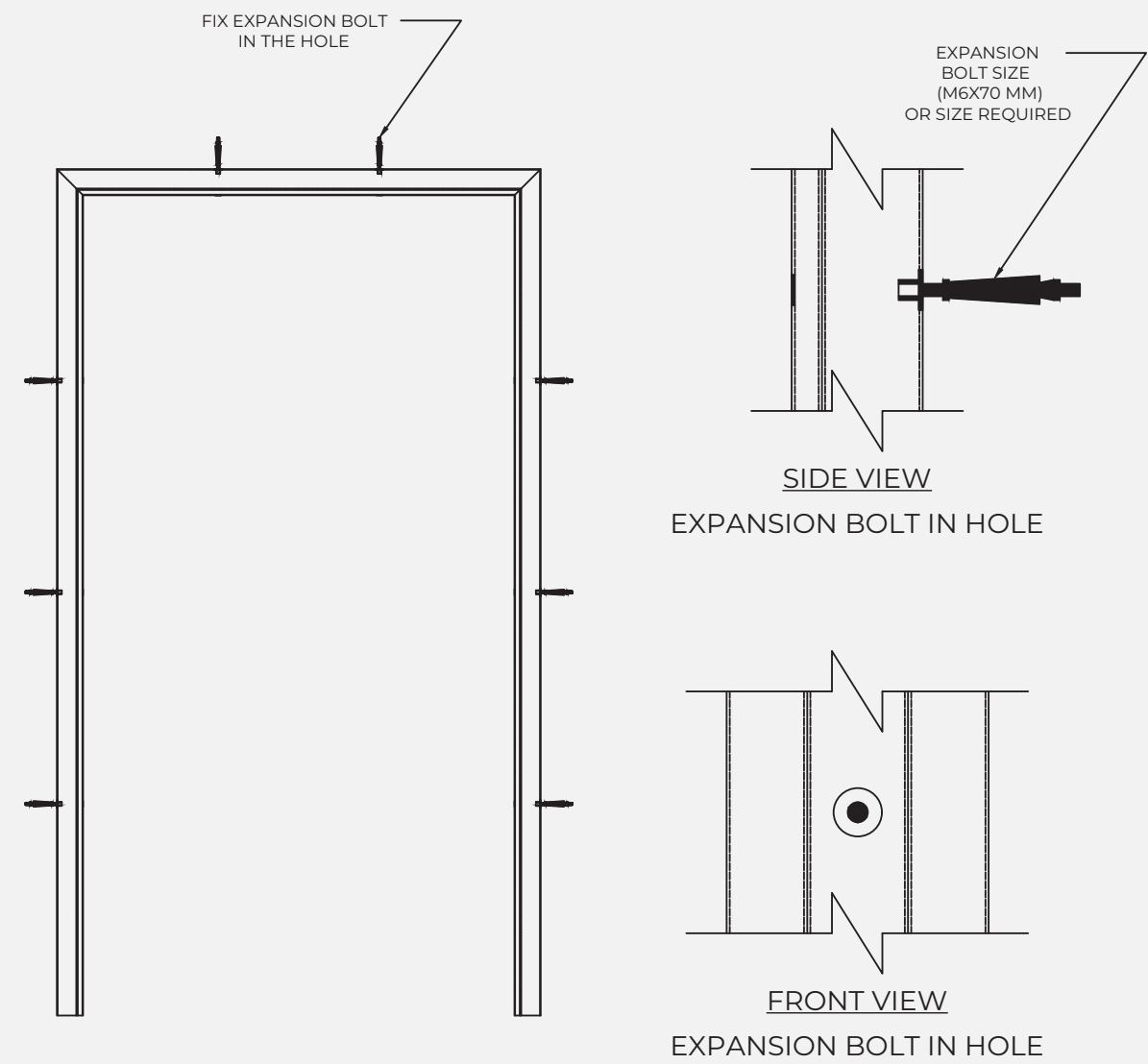
WITH THE HELP OF DRILL MACHINE WE MAKE 8 HOLES IN THE DDF OF SIZE 6MM ON THE INNER SIDE OF FRAME AND 15MM ON THE OUTER SIDE OF FRAME AND MARK THE HOLES POSITION ON THE WALL.





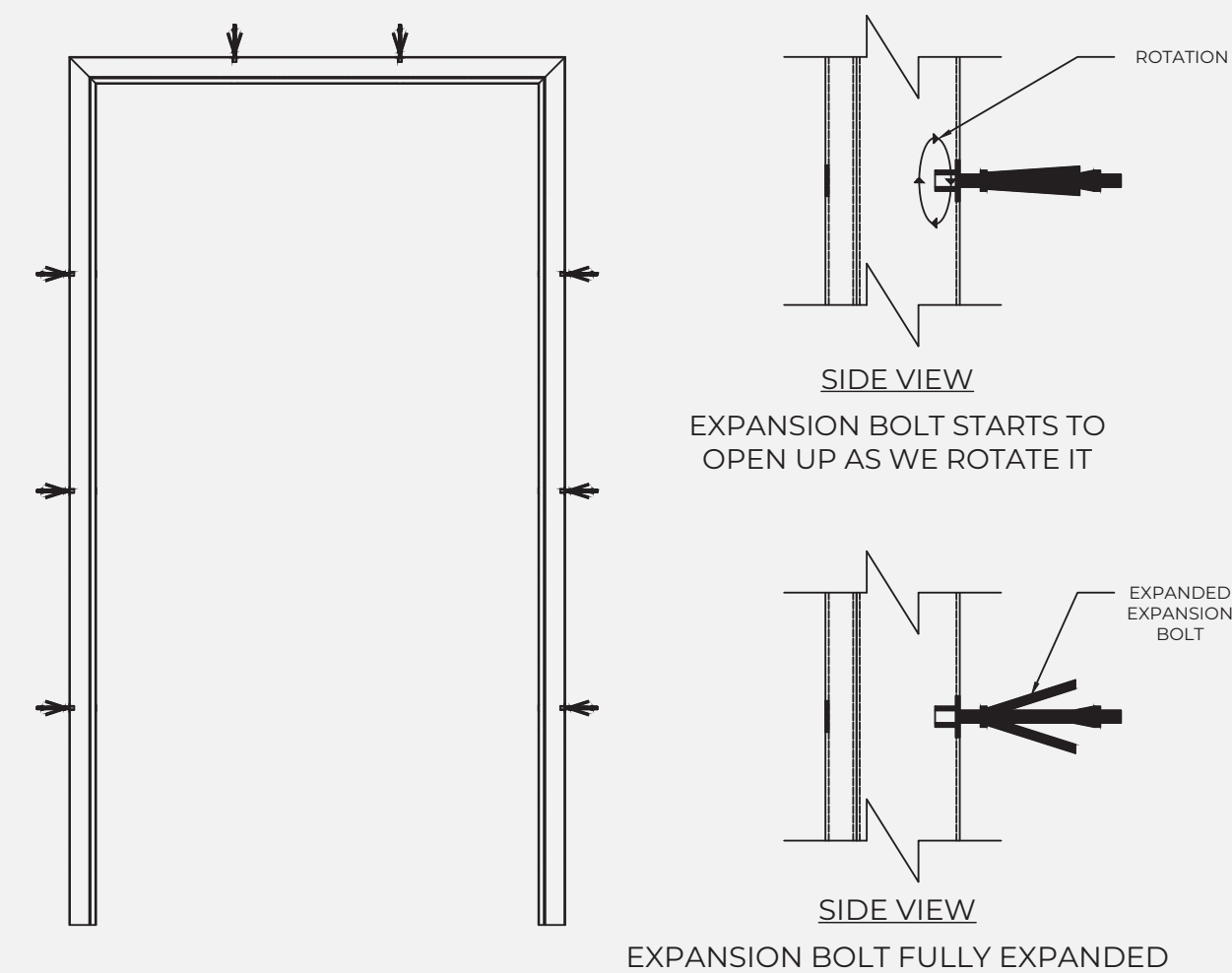
# STEP-4

AFTER DRILL, WE PUT THE EXPANSION BOLT IN THE HOLE AS DEPICT BELOW.



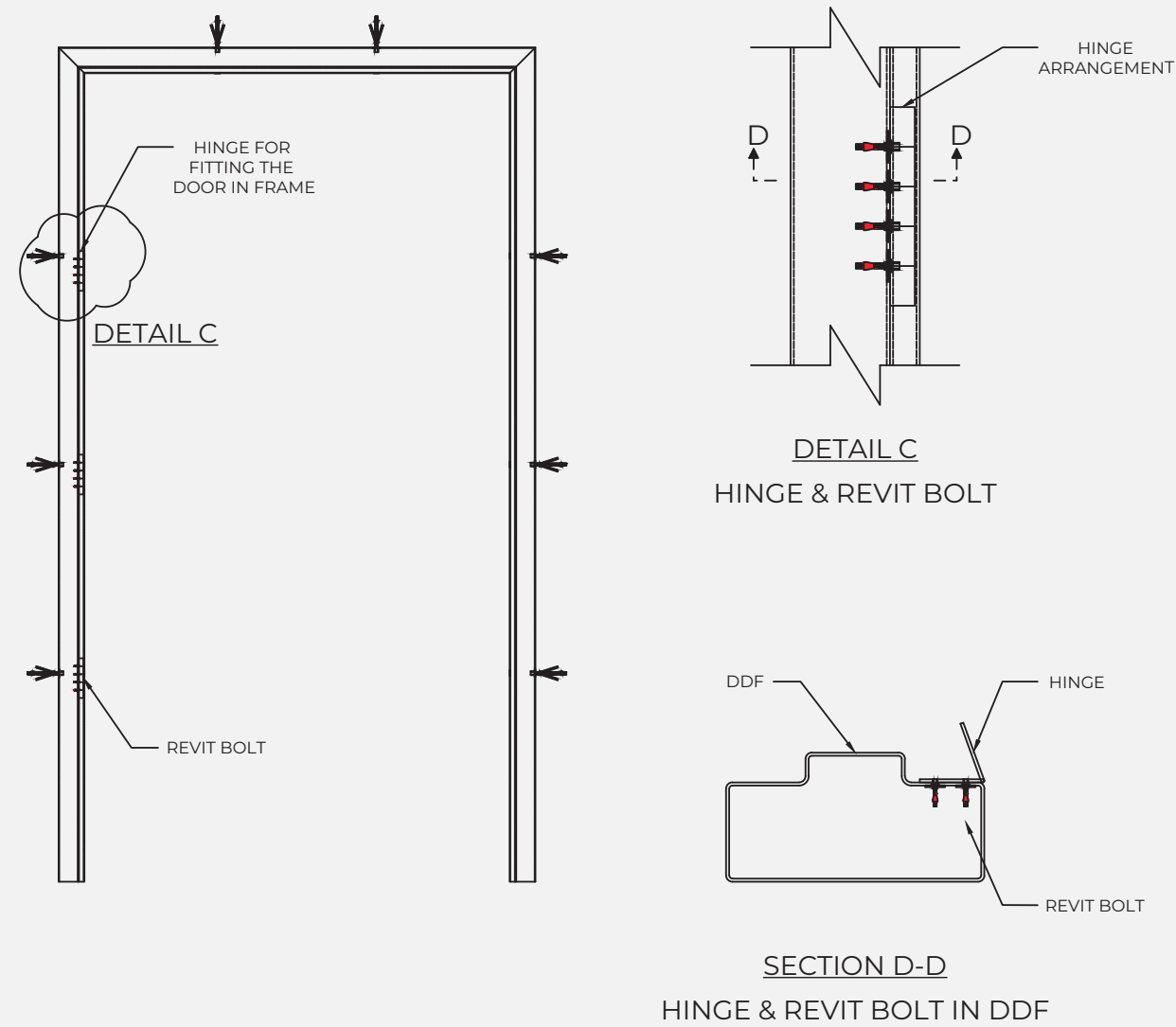
# STEP-5

AFTER TIGHTENING THE EXPANSION BOLT, AS SHOWN, THE DOOR FRAME WILL BE ATTACHED TO THE PRE-CONSTRUCTED WALL.



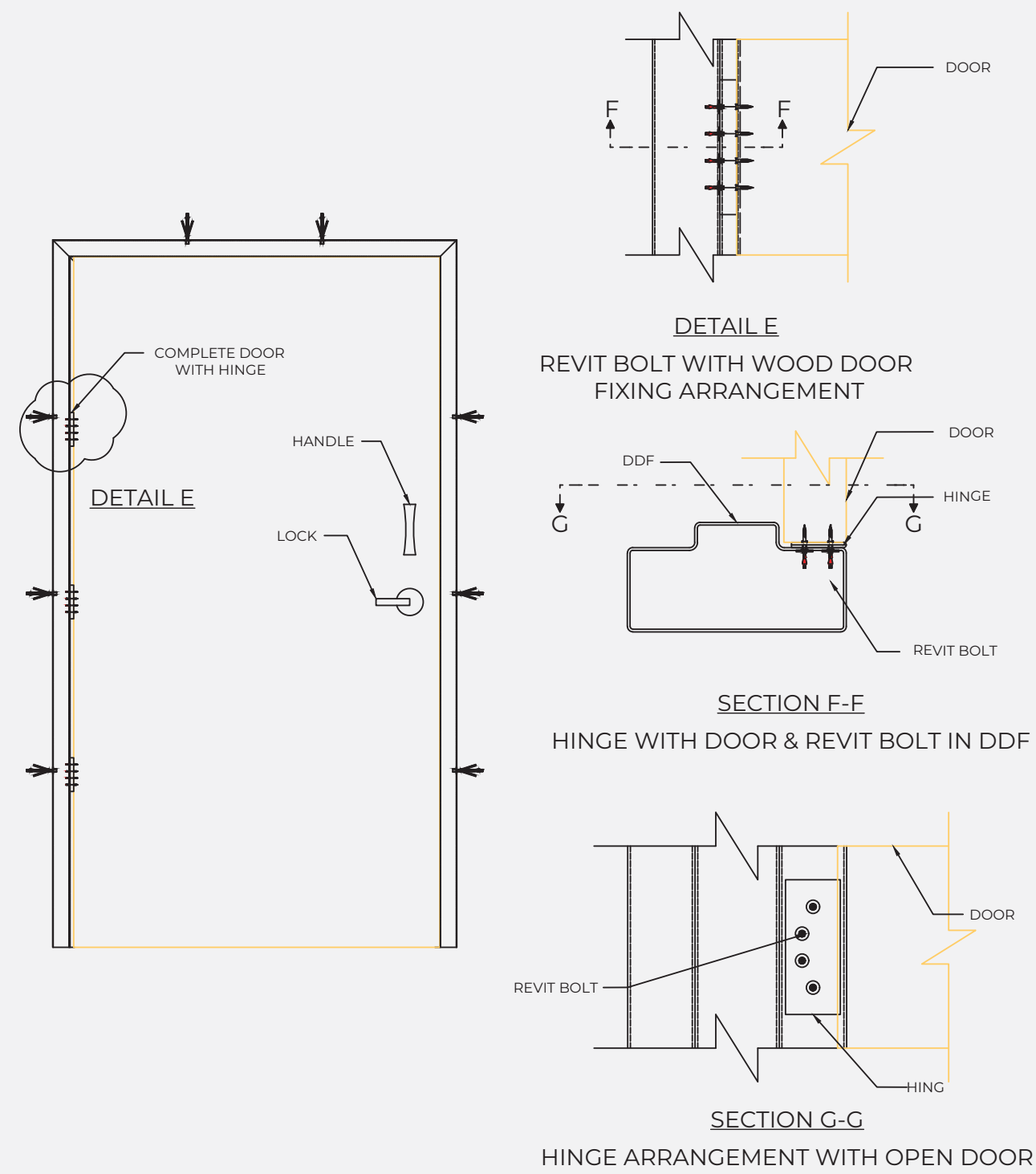
STEP-6

HINGES FOR HOLDING THE DOOR IS BEING FIXED WITH THE HELP OF REVIT BOLT.



STEP-7

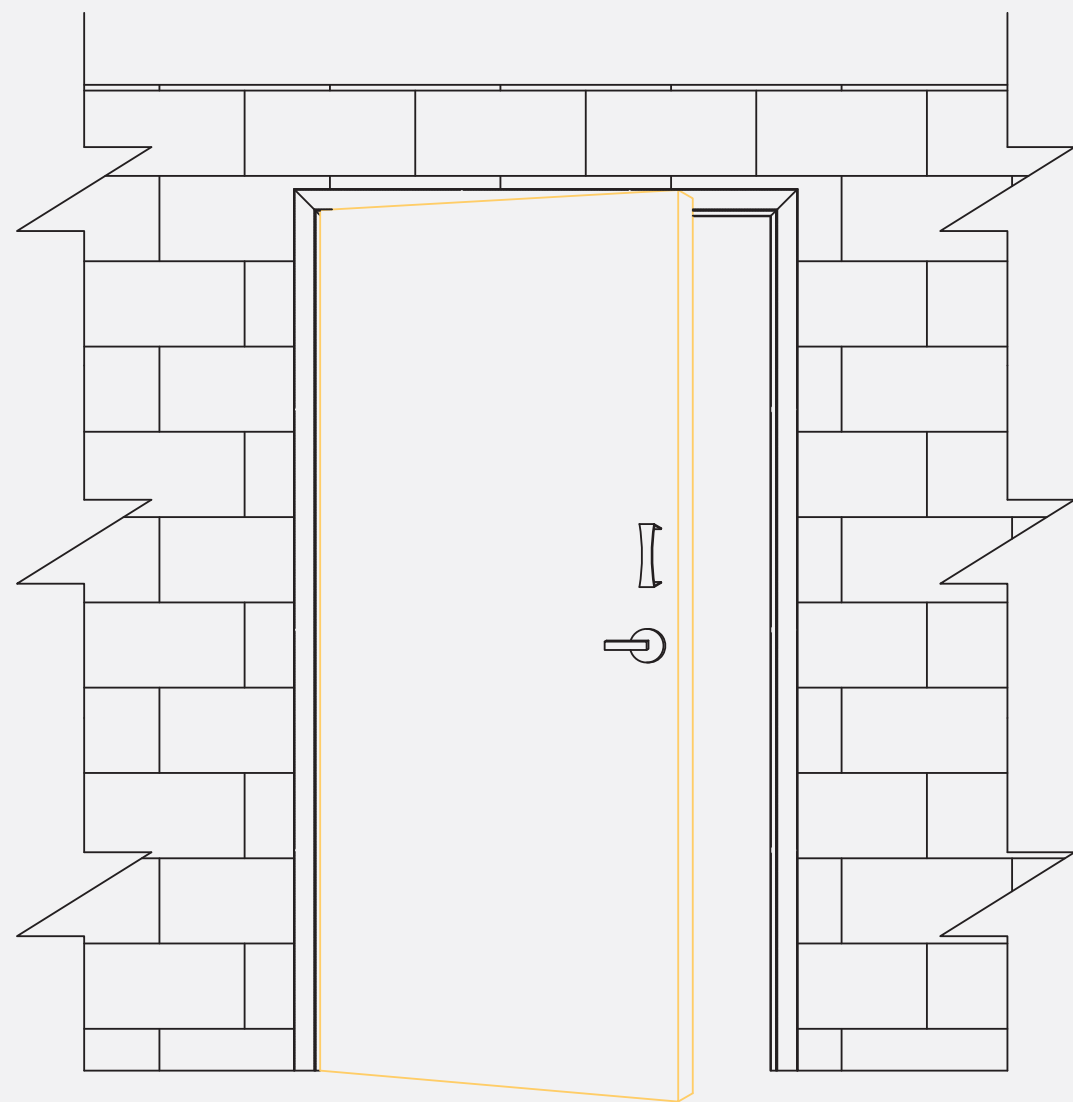
DOOR IS FIXED IN FRAME (CHAUKHAT) VIA HINGES AND NECESSARY ARRANGEMENTS ARE FIXED.





STEP-8

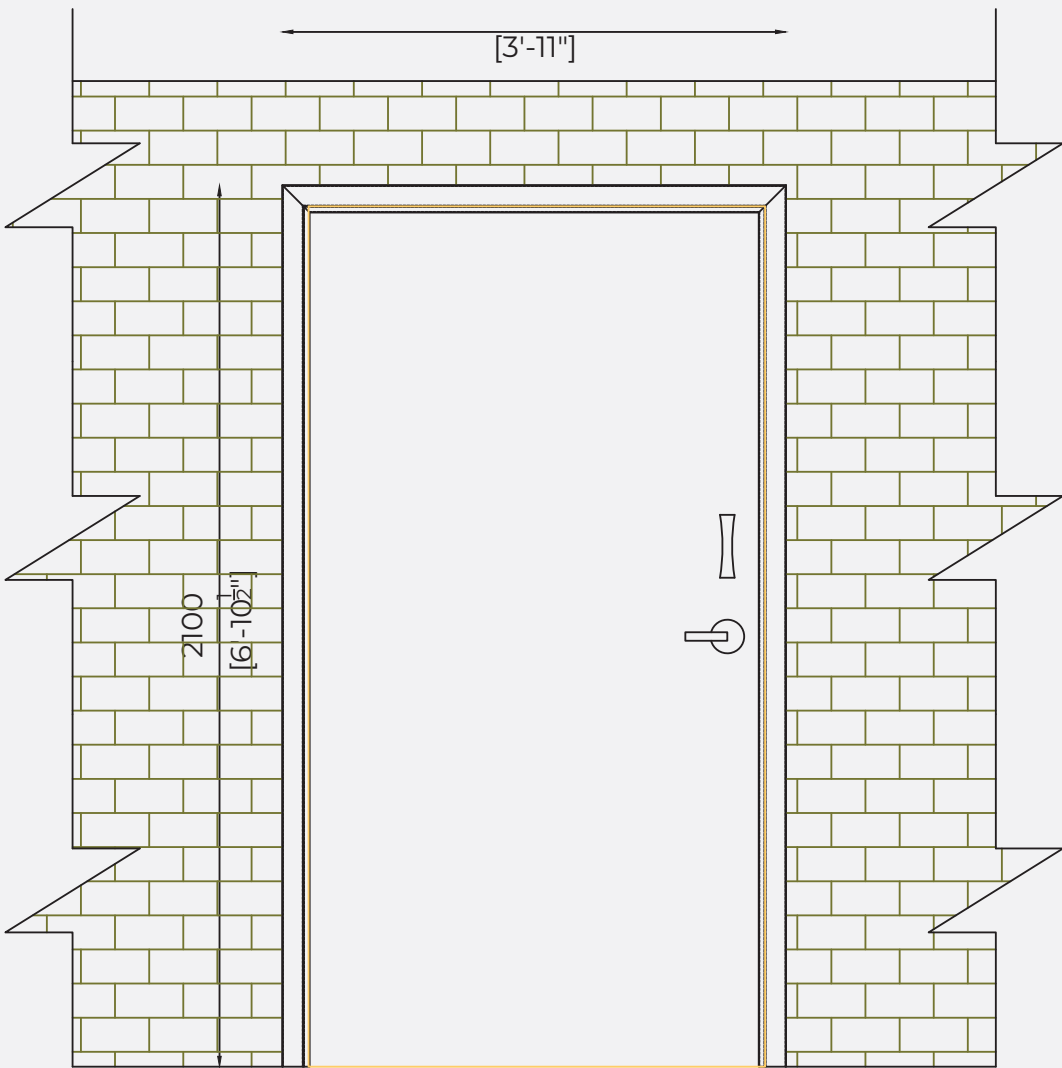
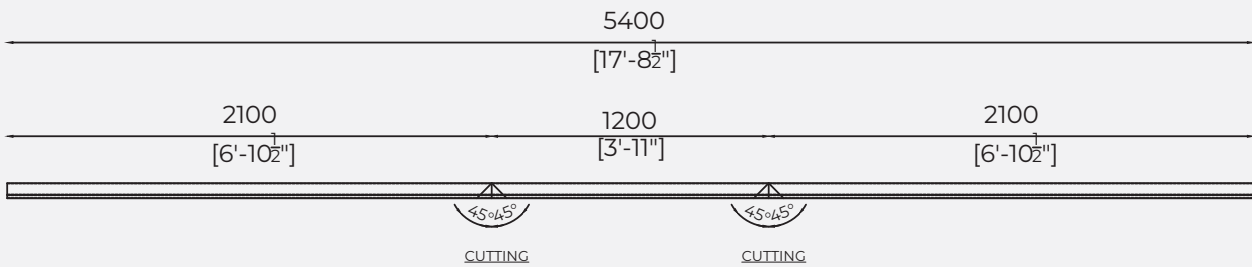
DOOR IS READY TO BE USED.



COMPLETE DOOR AND FRAME  
ARRANGEMENT

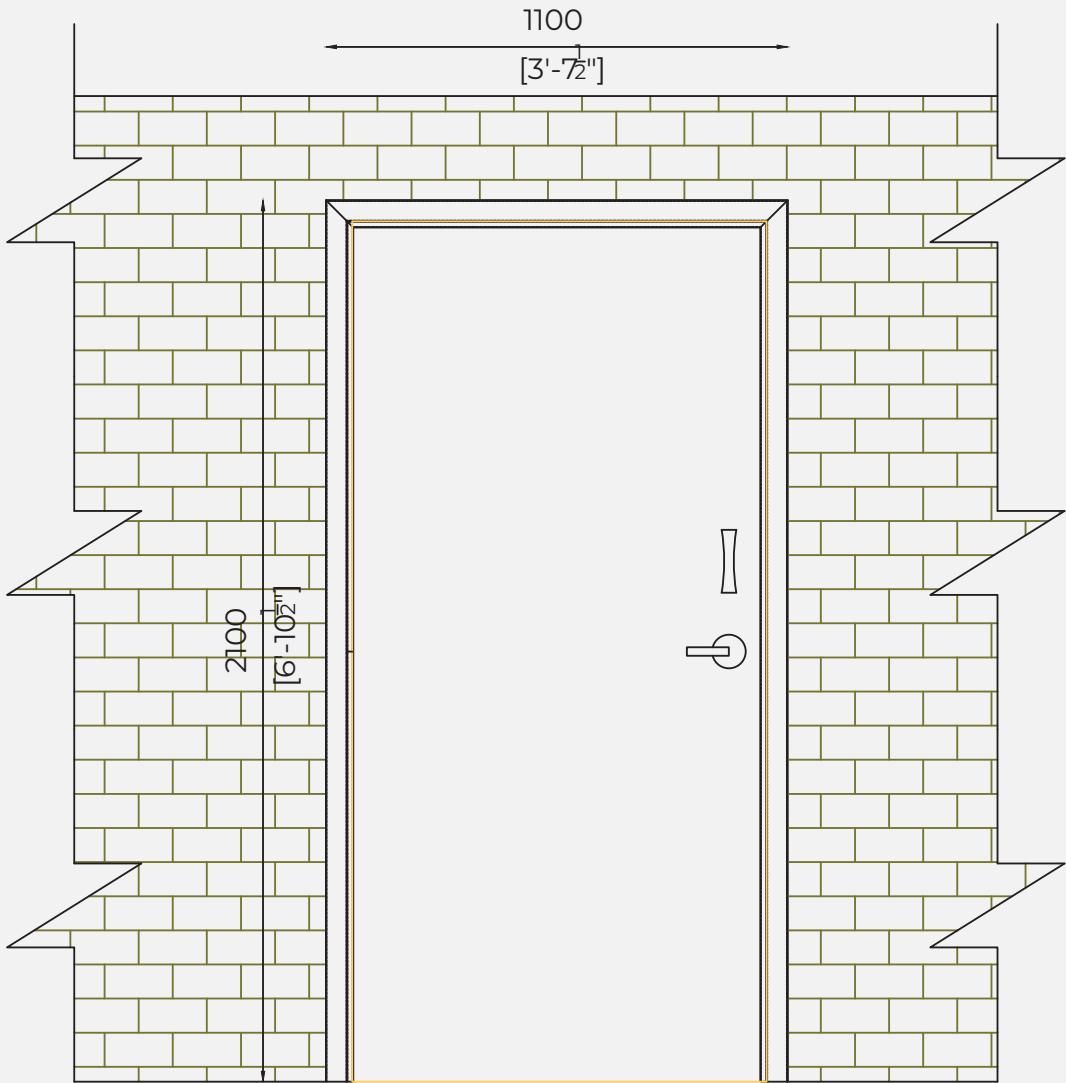
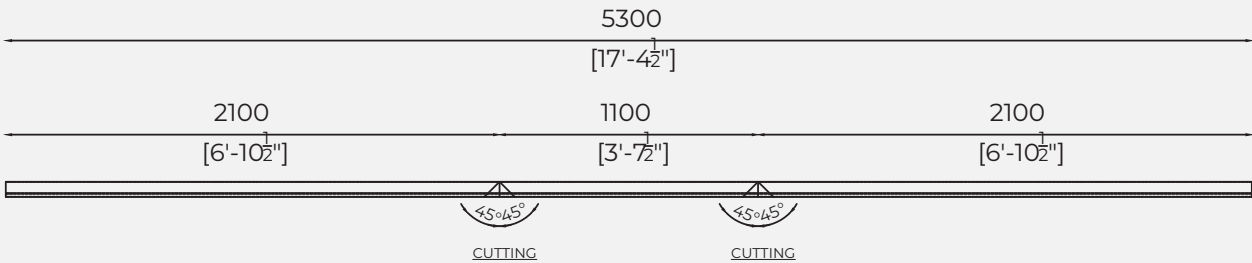
D1 (DOOR FRAME)

MASONRY / WALL OPENING SIZE (1200X2100 mm)  
DDF (DOUBLE DOOR FRAME 130X65X1.6 mm)  
LENGTH 5400 mm



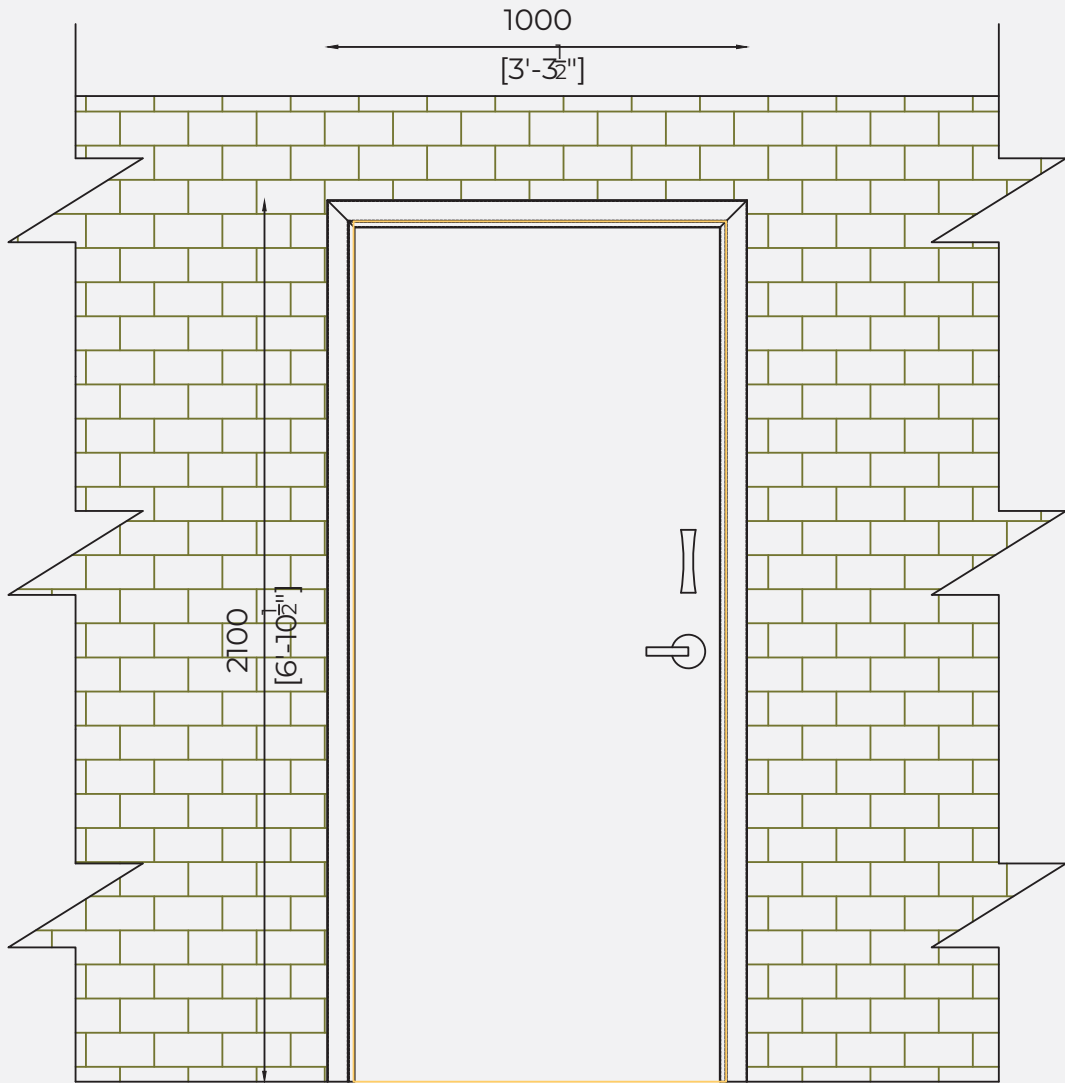
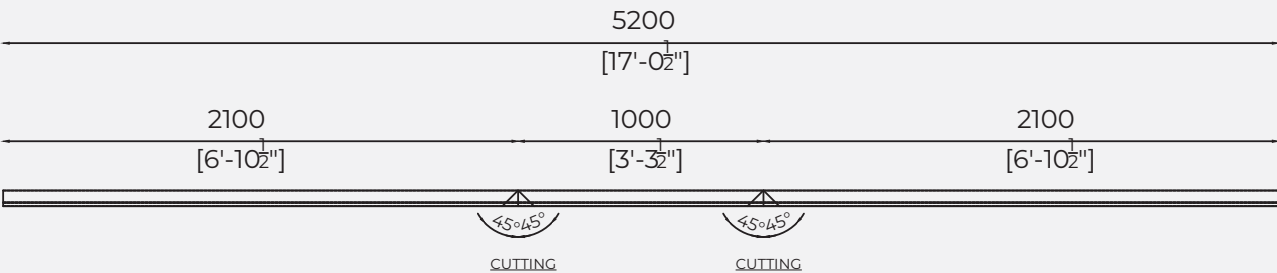
D2 (DOOR FRAME)

MASONRY / WALL OPENING SIZE (1100X2100 mm)  
DDF (DOUBLE DOOR FRAME 130X65X1.6 mm)  
LENGTH 5300 mm



D3 (DOOR FRAME)

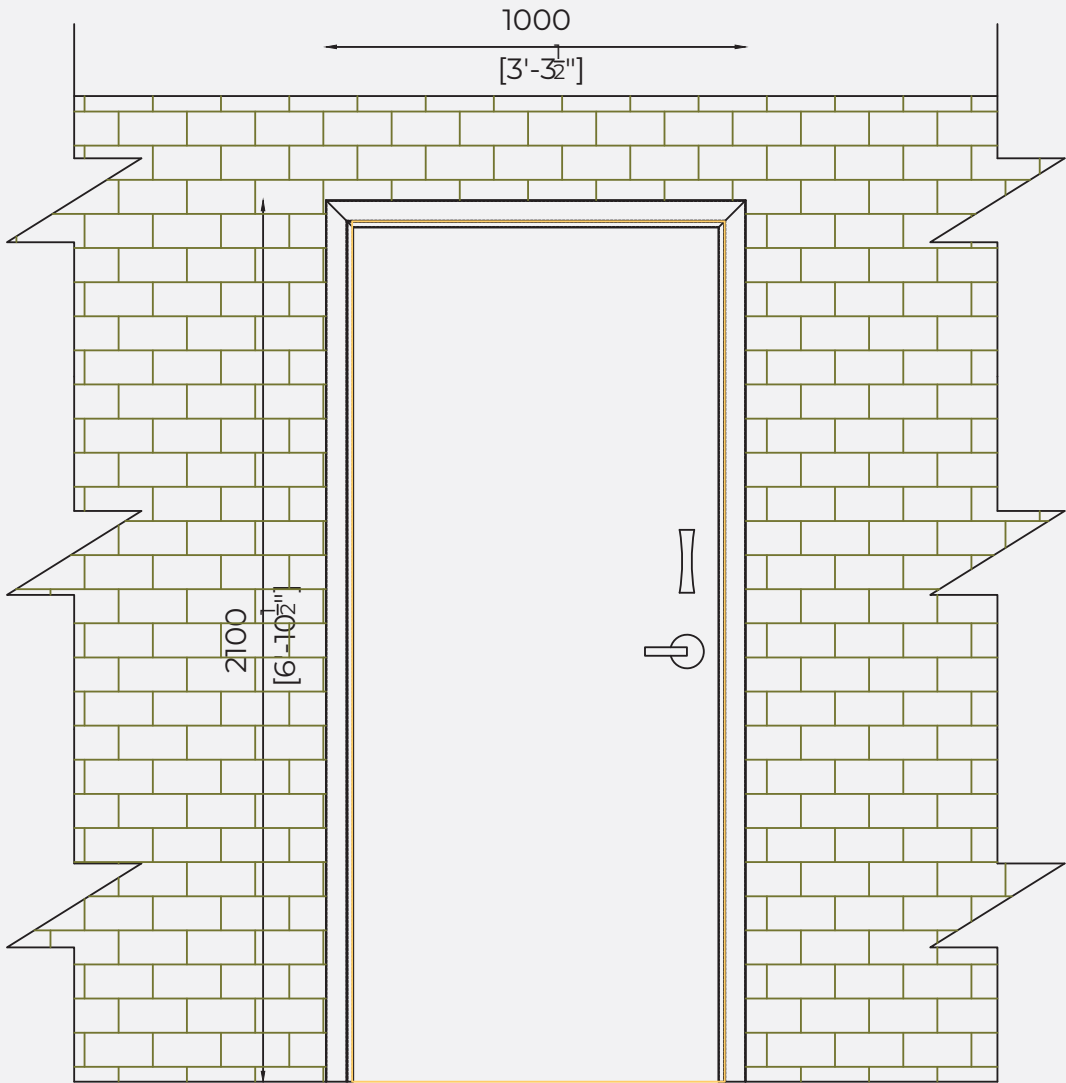
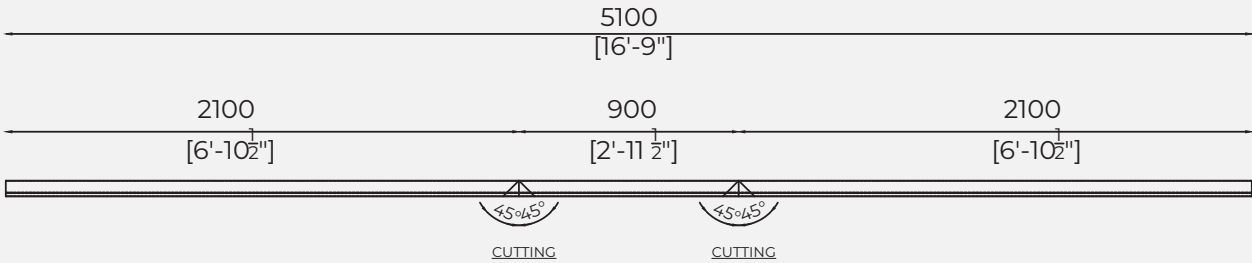
MASONRY / WALL OPENING SIZE (1000X2100 mm)  
DDF (DOUBLE DOOR FRAME 130X65X1.6 mm)  
LENGTH 5200 mm





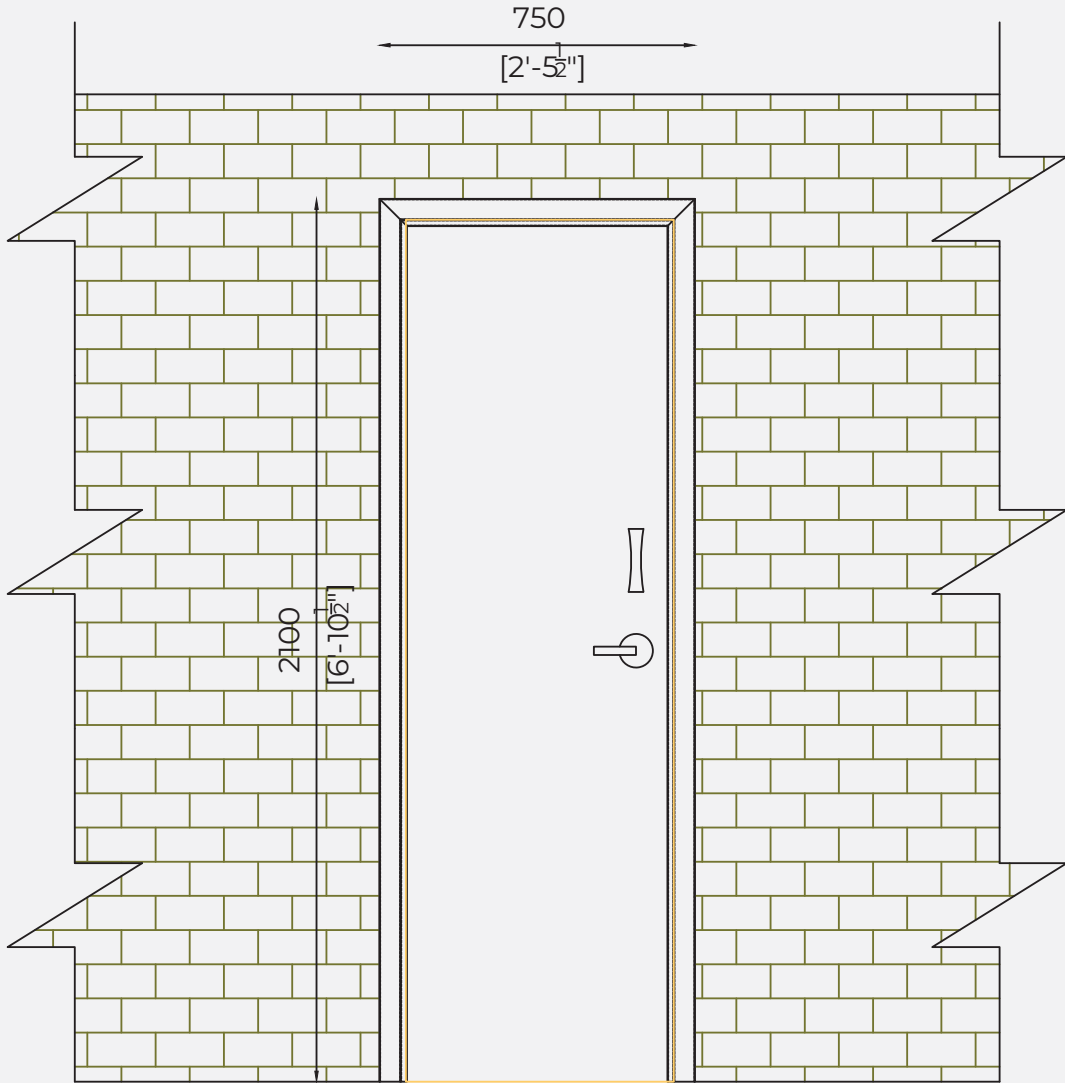
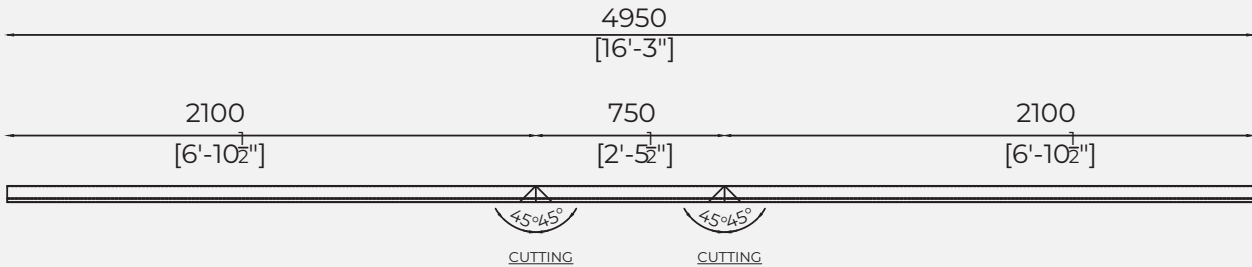
### D4 (DOOR FRAME)

MASONRY / WALL OPENING SIZE (900X2100 mm)  
DDF (DOUBLE DOOR FRAME 130X65X1.6 mm)  
LENGTH 5100 mm



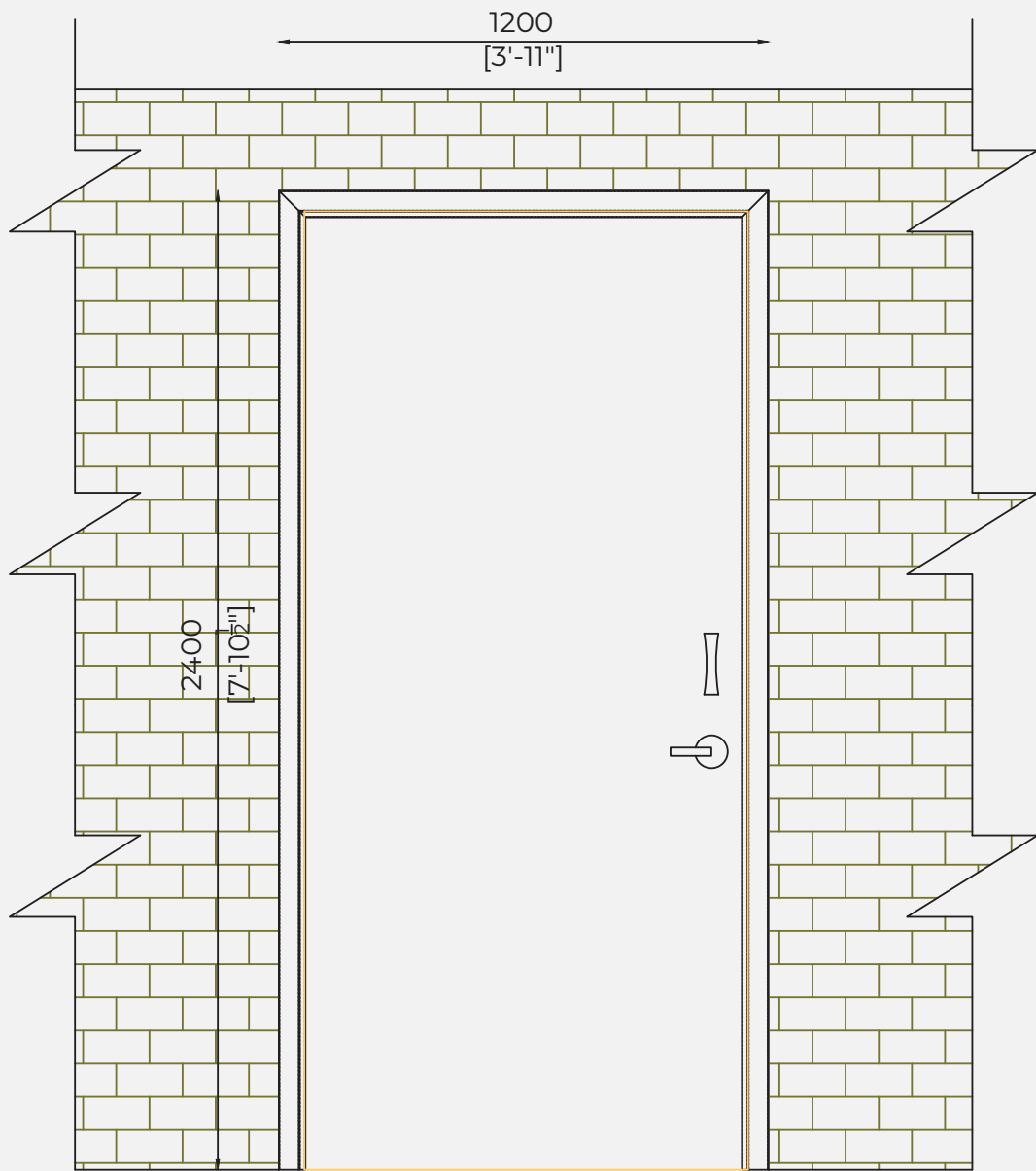
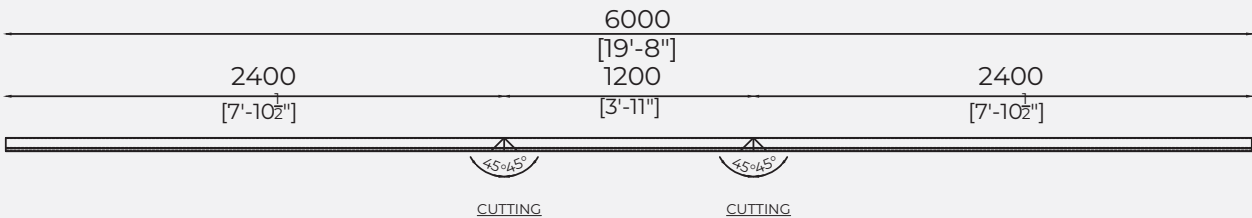
### D5 (DOOR FRAME)

MASONRY / WALL OPENING SIZE (750X2100 mm)  
DDF (DOUBLE DOOR FRAME 130X65X1.6 mm)  
LENGTH 4950 mm



D6 (DOOR FRAME)

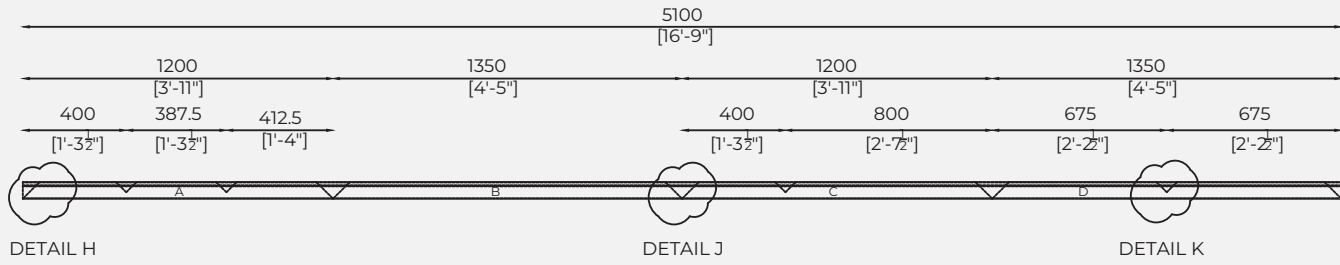
MASONRY / WALL OPENING SIZE (1200X2400 mm)  
DDF (DOUBLE DOOR FRAME 130X65X1.6 mm)  
LENGTH 6000 mm



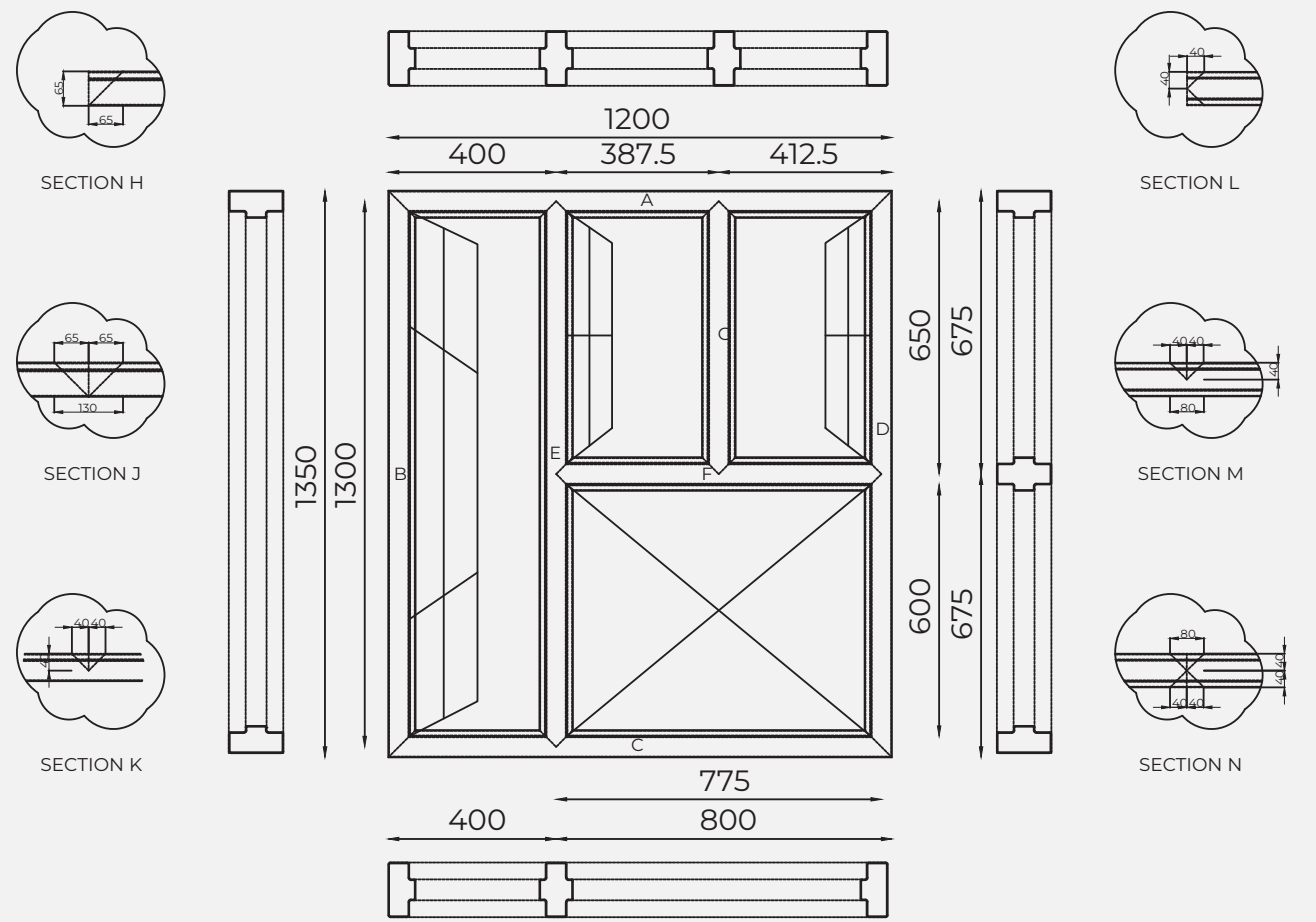
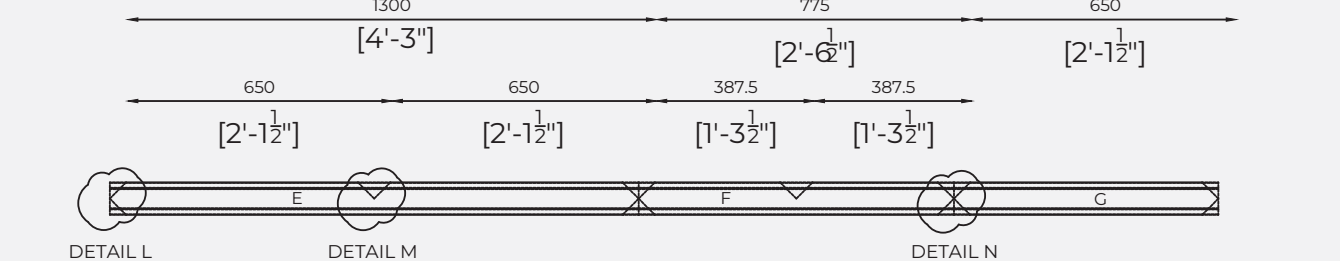
WINDOWS WITH COOLER OR AC OPENING

MASONRY / WALL OPENING SIZE 1200X1350

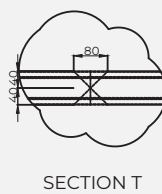
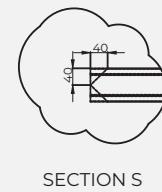
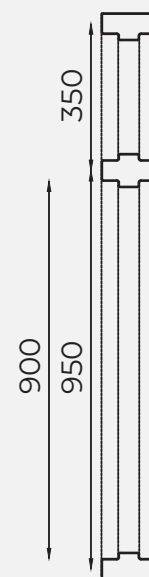
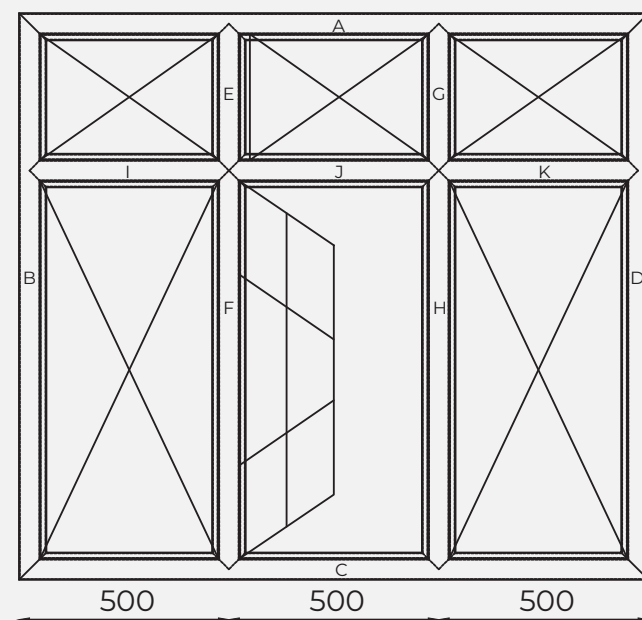
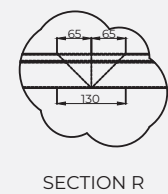
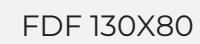
DDF 130X65



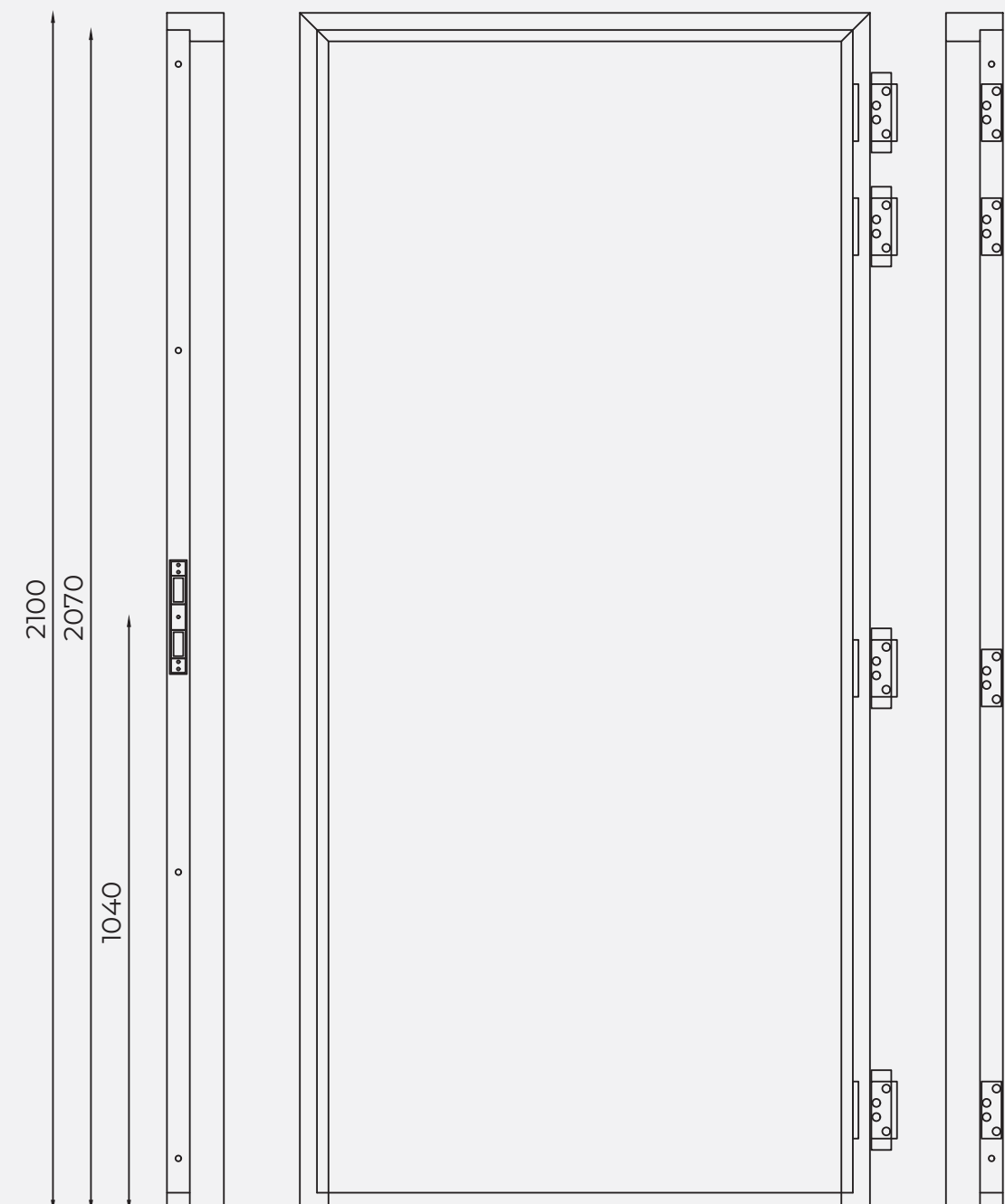
FDF 130X80



## DDF 130X65



## 1000

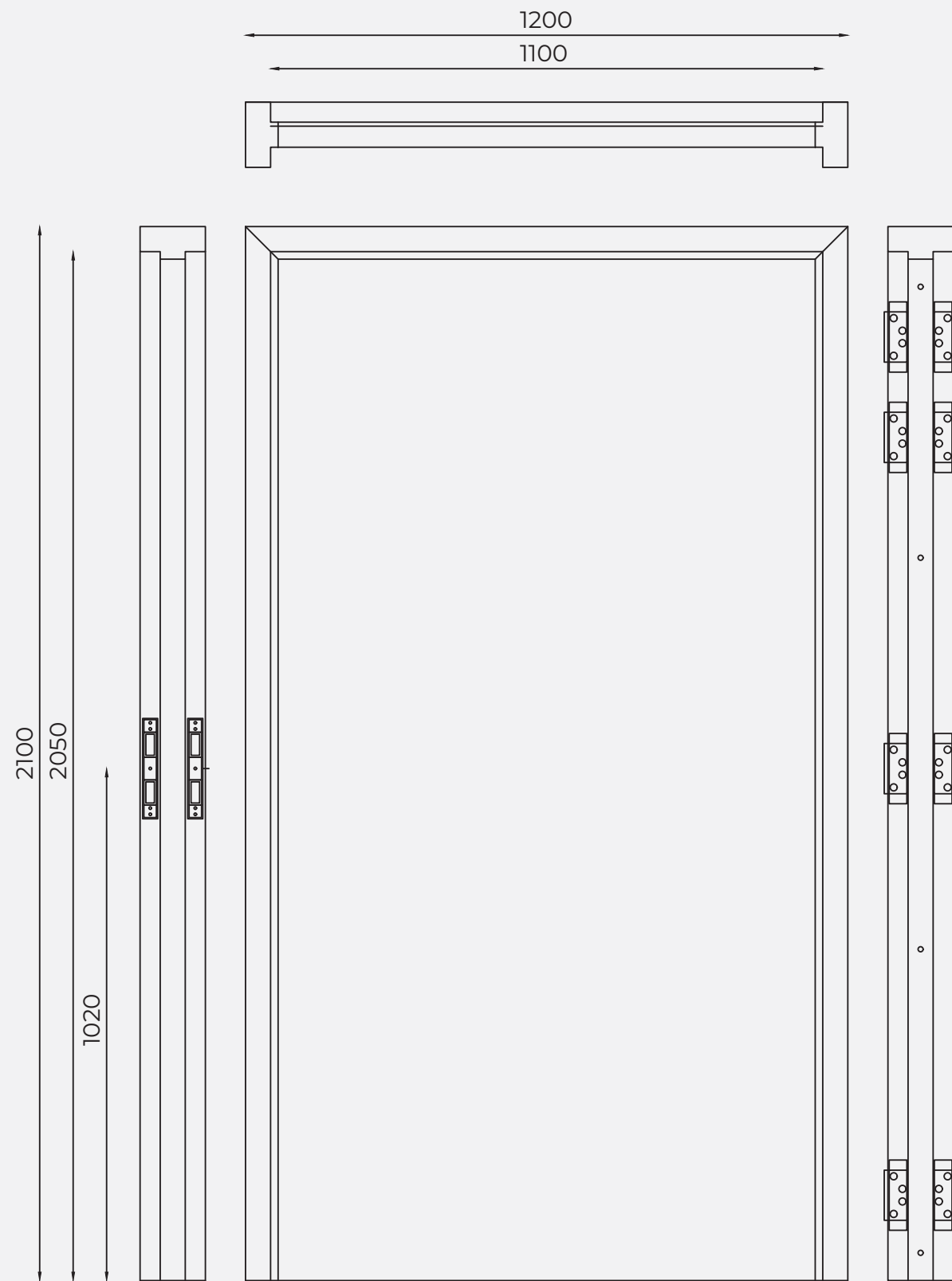




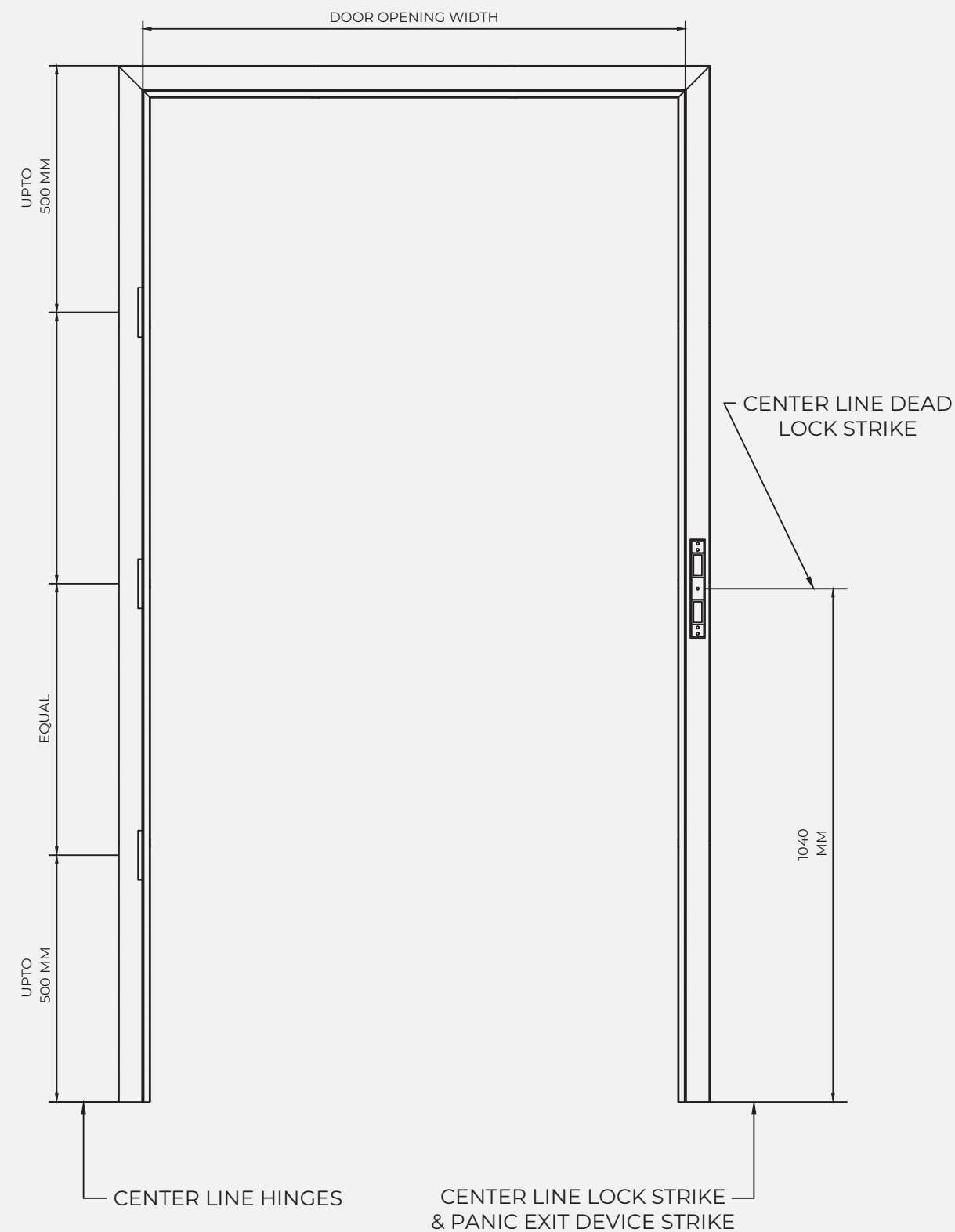
APOLLO CHAUKHAT SINGLE DOOR FRAME  
(750 MM X 2100 MM)



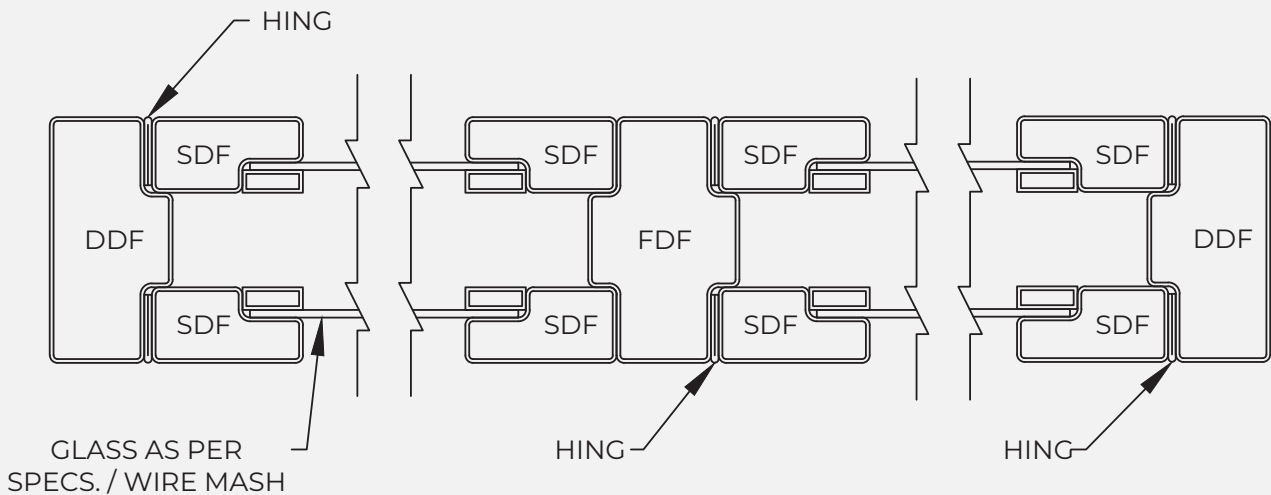
APOLLO CHAUKHAT DOUBLE DOOR FRAME  
(1200 MM X 2100 MM)



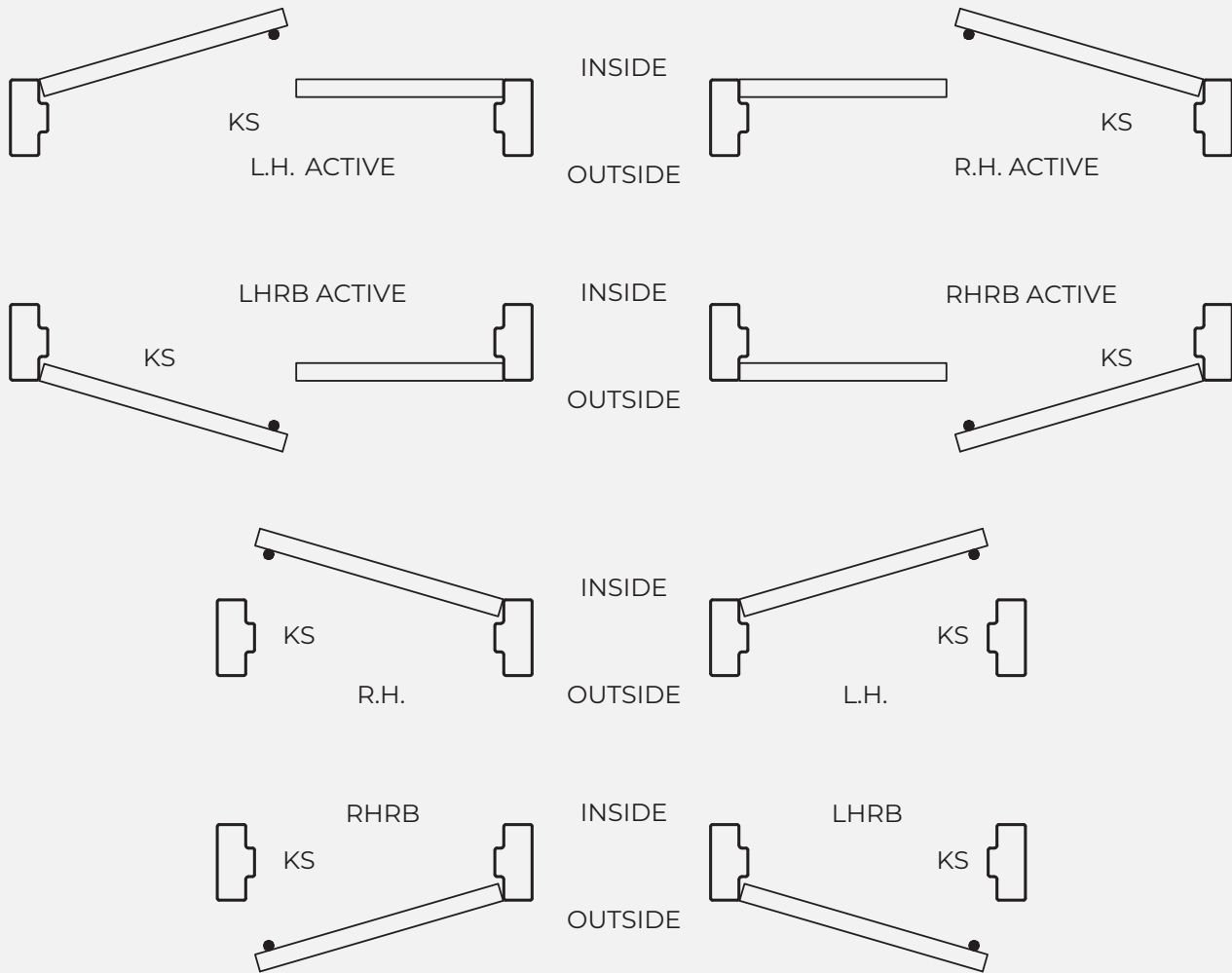
# APOLLO CHAUKHAT DOOR FRAME WITH 3 NOS. HINGE FIXING LOCATION



# TYPICAL WINDOW JOINING DETAIL

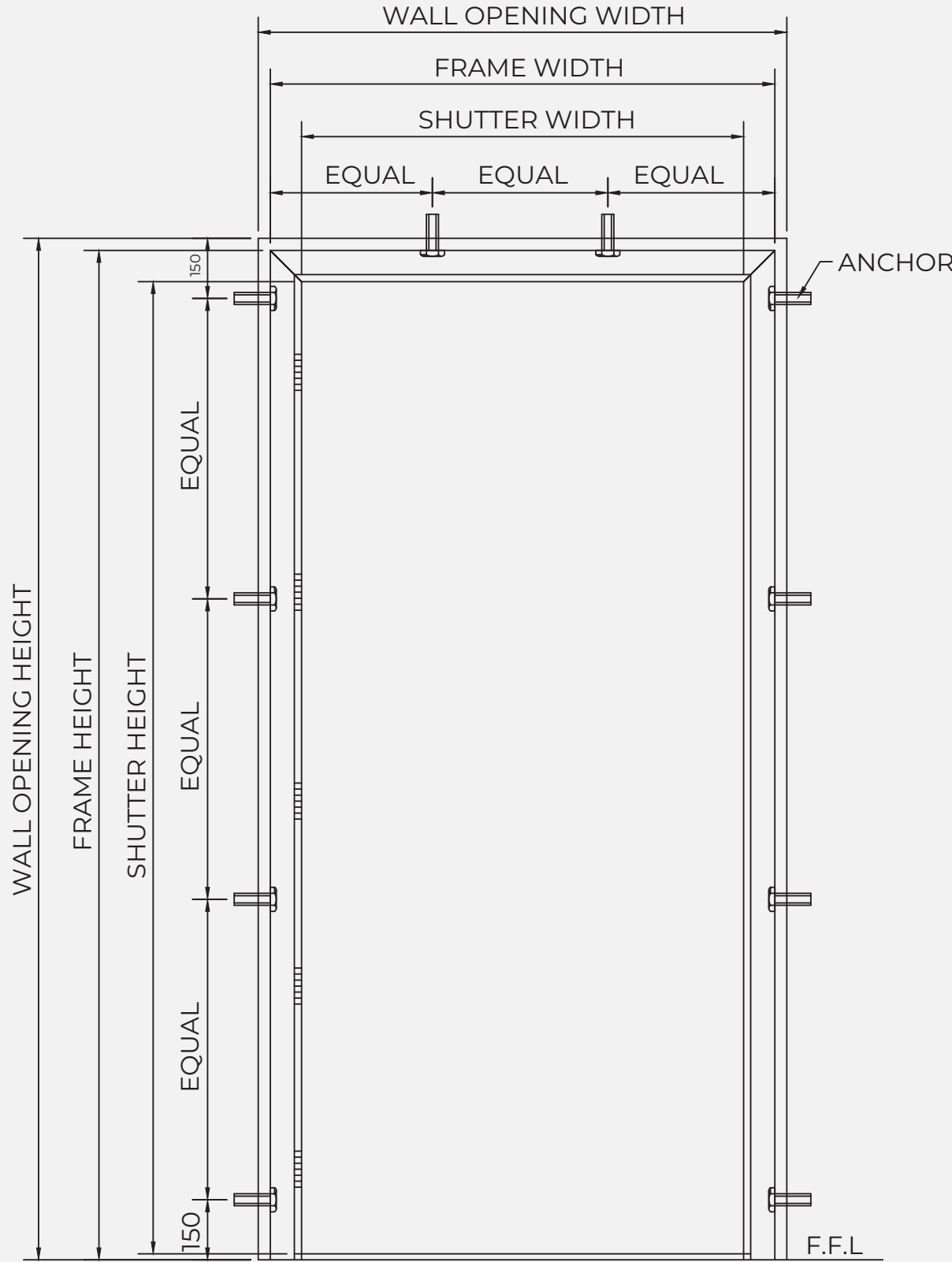


# HANDING CHART



\*NOTE : KS indicate Keyed side of Lockset.

EXPANSION BOLT FIXING LOCATION ARRANGEMENT



OUR NATIONWIDE PRESENCE

