# DOORS

Norac manufactures and supplies a wide range of high-quality internal A and B classified doors for the maritime industry. Our doors are tested to satisfy the industry's strict requirements for both fire safety and sound reduction. They are all certified by international classification societies and authorities.

We deliver standard doors and custom-built doors within the limitations of our certificates.

# DOORS CONTENTS


| | |
|---|---|
| B-rated Doors | 51 |
| N-MB Door | 52 |
| N-ML Door | 54 |
| N-MC Door | 56 |
| N-MLDD Door | 58 |
| N-CD Door | 60 |
| N-CD-II Door | 62 |
| N-CCD Door | 64 |
| N-SD Door | 66 |
| A-rated Doors | 69 |
| N-HD A-30 Door | 70 |
| N-HD A-60 Door | 72 |
| N-HD A-60 DD Door | 74 |
| N-HD A-60 Hatch | 76 |
| NON-Rated Door | 78 |

# NOTES

# DOORS B-RATED

Norac has a complete range of B-doors designed for all kinds of applications, from a lightweight all-round door for corridors and public areas to a cabin door with sound reduction value (Rw) of 44 dB.
The doors are easy to install and supplied complete with integrated top element (option), frame, counter frame, door leaf, hardware and stainless-steel threshold.
All B-doors can be delivered with painted, stainless steel or PVC coated surface, and they are all certified as fire class B-15.

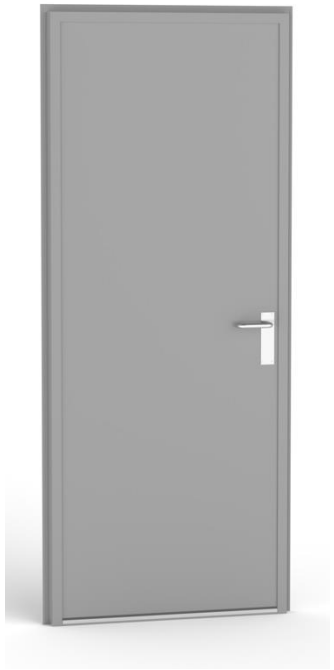
| DESCRIPTION | N-MB | N-ML | N-MC | N-MLDD | N-CD | N-CD-II | N-CCD | N-SD |
|---|---|---|---|---|---|---|---|---|
| Fire class | B-0/B-15 | B-15 | B-15 | B-15 | B-15 | B-15 | B-15 | B-15 |
| Surface door leaf | Painted, stainless steel or PVC coated | Painted, stainless steel, PVC coated or laminated | Painted, stainless steel, PVC coated or laminated | Painted, stainless steel, PVC coated or laminated | Painted, stainless steel, PVC coated or laminated | Painted, stainless steel, PVC coated or laminated | Painted, stainless steel, PVC coated or laminated | Painted, stainless steel, PVC coated or laminated |
| Frame (and top element) | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel |
| Thickness door leaf | 39 mm | 39 mm | 39 mm | 39 mm | 50 mm | 50 mm | 2 x 33 mm | 39 mm |
| Weight | 45 kg** | 60 kg** | 75 kg** | 95 kg** | 90 kg** | 55 kg** | 95 kg** | 130 kg |
| Core material | Rockwool | Ceramic wool | Rockwool | Ceramic wool | Rockwool | Rockwool | Rockwool | |
| Max clear opening (W x H) | 1000 x 2100 mm *** | 1000 x 2075 mm *** | 1000 x 2080 mm *** | 1600 x 2075 mm *** | 800 x 2050 mm *** | 1000 x 2050 mm | 800 x 2050 mm *** | 1200 x 2125 mm *** |
| Element height | NA | Up to 2500 mm | Up to 2500 mm | Up to 2500 mm | Up to 2500 mm | Up to 2500 mm | NA | NA |
| Sound reduction | NA | Rw= 35 dB | Rw=43 dB | NA | Rw=44 dB | Rw=39 dB | Rw=46 dB | NA |
| Standard specification | ECO7 TrioVing/Schwepper/ Dormakaba | ECO7 TrioVing/Schwepper/ Dormakaba | ECO7 TrioVing/Schwepper/ Dormakaba | ECO7 TrioVing/Schwepper/ Dormakaba | ECO7 TrioVing/Schwepper/ Dormakaba | ECO7 TrioVing/Schwepper/ Dormakaba | ECO7 TrioVing/Schwepper/ Dormakaba | TrioVing/Stuv/Helm |
| Application | Internal doors | Internal doors | Internal doors | Internal doors | Internal doors | Internal doors | Internal doors | Internal doors |

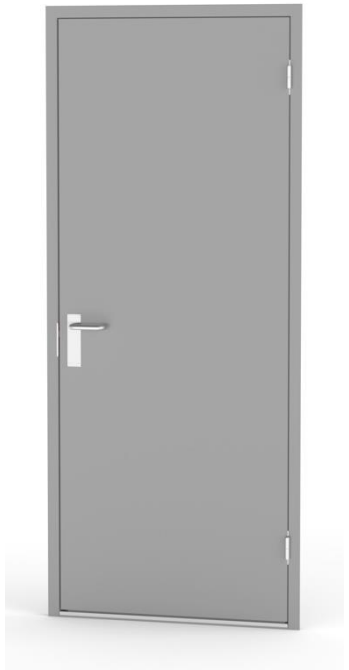
* According to NCS & RAL colours.
** Weight is based on a door with the following clear openings: N-MB, N-ML, N-MC, N-CD, N-CD-II and N-CDD: 700 x 2000 mm, N-MLDD: 1200 x 2000 mm, N-SD: 900 x 2050 mm
*** Door dimensions can be marginally increased according to IMO MSC.1/Circ. 1319.

| OPTIONS | N-MB | N-ML | N-MC | N-MLDD | N-CD | N-CD-II | N-CCD | N-SD |
|---|---|---|---|---|---|---|---|---|
| Vision panel | | x | x | x | x (peep hole) | x (peep hole) | | |
| Ventilation louvre | | x | x (Offset ventilation) | x | | x (Offset ventilation) | | |
| Kick-out | | x | x | | | | | |
| Dropdown threshold | | x | x | | x | | | |
| Door closer | x | x | x | x | x | x | x | |
| Lead cover for hardware | | x | x | x | x | | | |

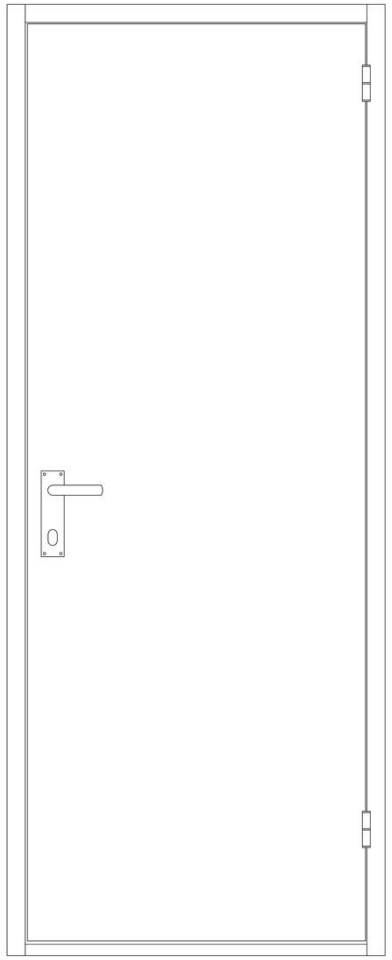
# DOORS B-RATED N-MB

The MB door has been developed to function as a basic door with a wide field of application. It is normally used in areas where there are no special requirements other than to function as a B class division.

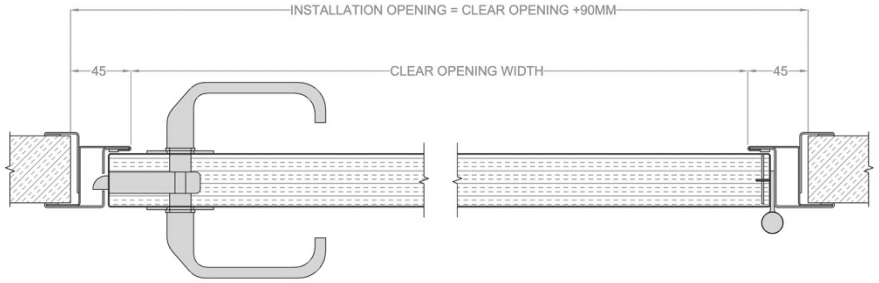




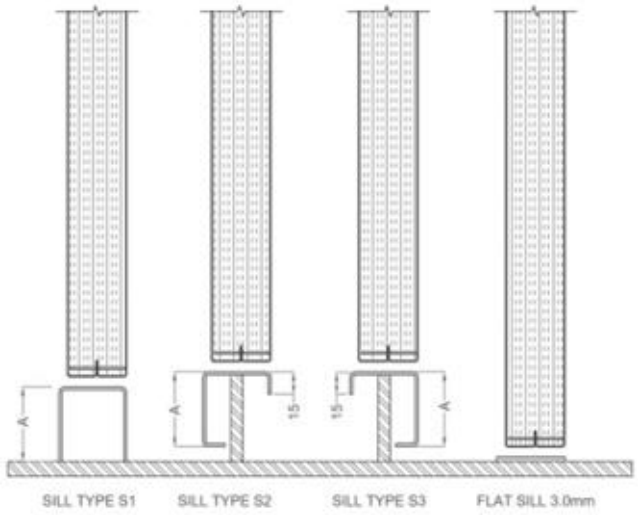
# DOORS / TECHNICAL DETAILS B-RATED N-MB



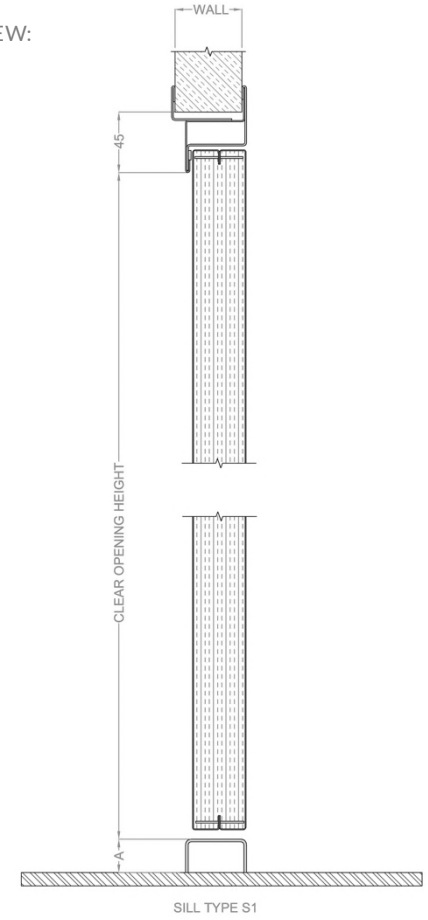
TOP VIEW:




SILL TYPES:




SIDE VIEW:

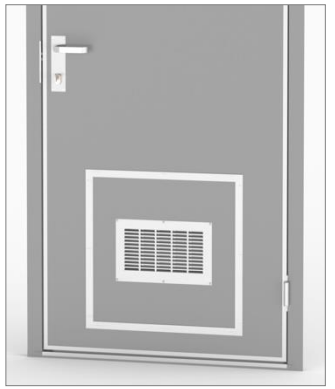


# DOORS B-RATED N-ML

The ML door is a lightweight door with a wide field of application.
Typical applications can be corridors, WC and other public areas.

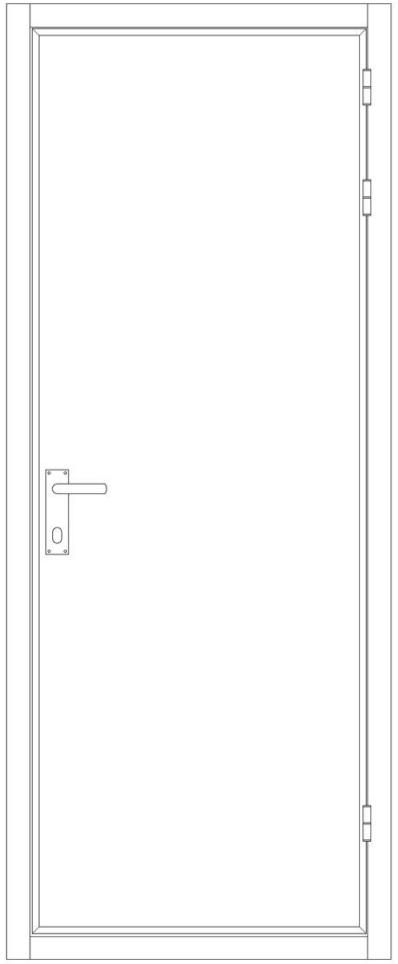
The door can be delivered with or without top panel and be equipped
with vision panel, kick-out, ventilation louvre and door closer.

Available with vision panel

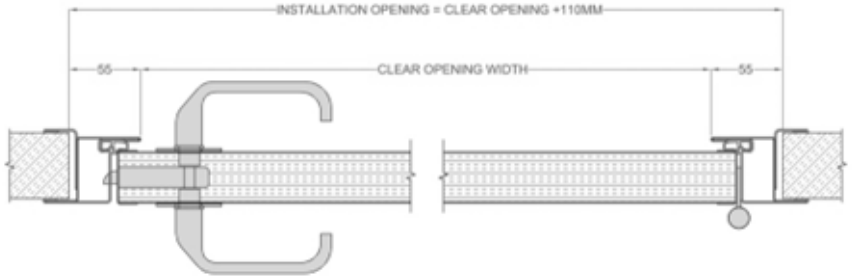


Available ventilation louvre

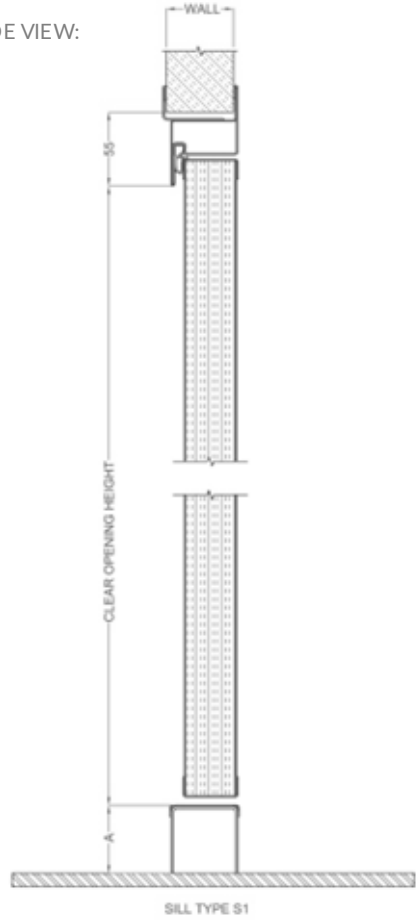
# DOORS / TECHNICAL DETAILS B-RATED N-ML



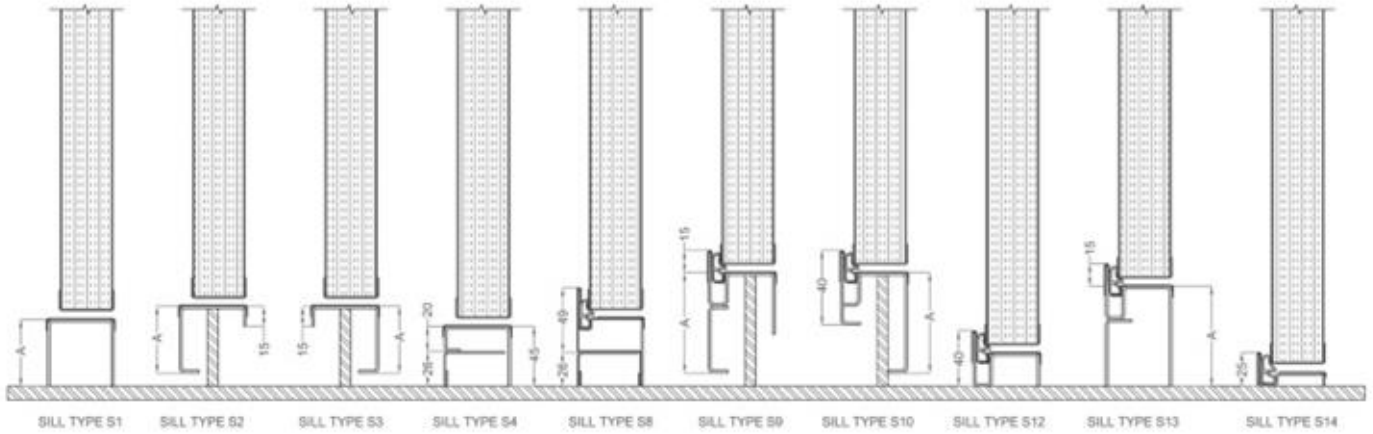
TOP VIEW:




SIDE VIEW:



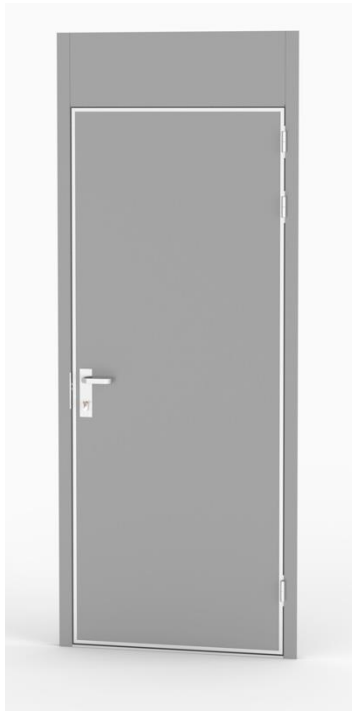

SILL TYPES:



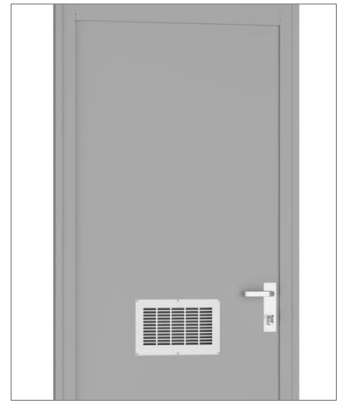
# DOORS B-RATED N-MC

The MC door is an acoustic door with a sound reduction value (Rw) of 43 dB. Typical applications can be cabins and offices with high requirements for sound reduction.

The door can be equipped with vision panel, kick-out, z-ventilation and door closer.

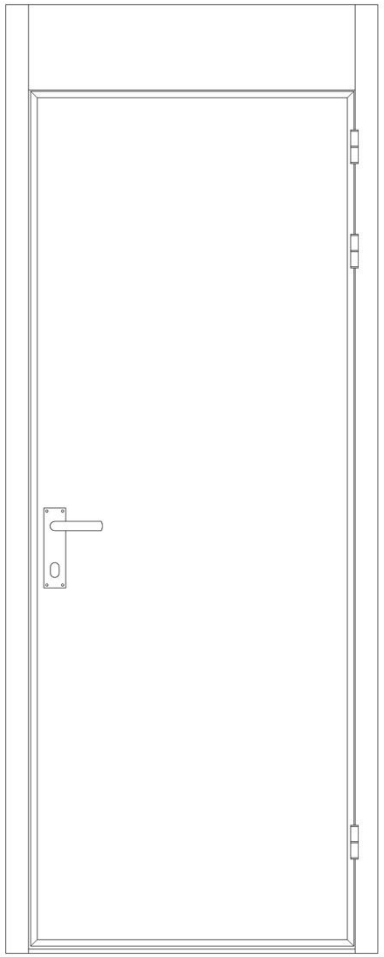


Available with vision panel

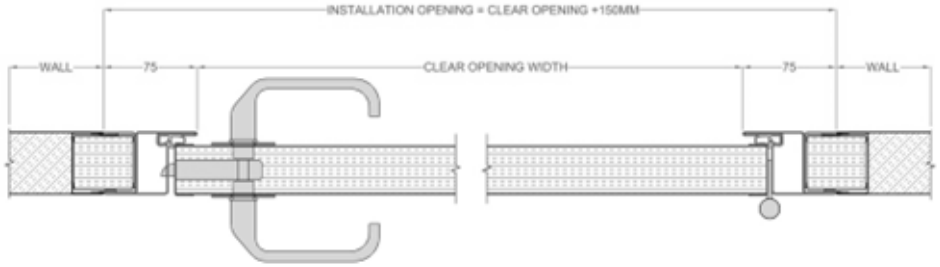


Available with kick out and Offset ventilation louvre

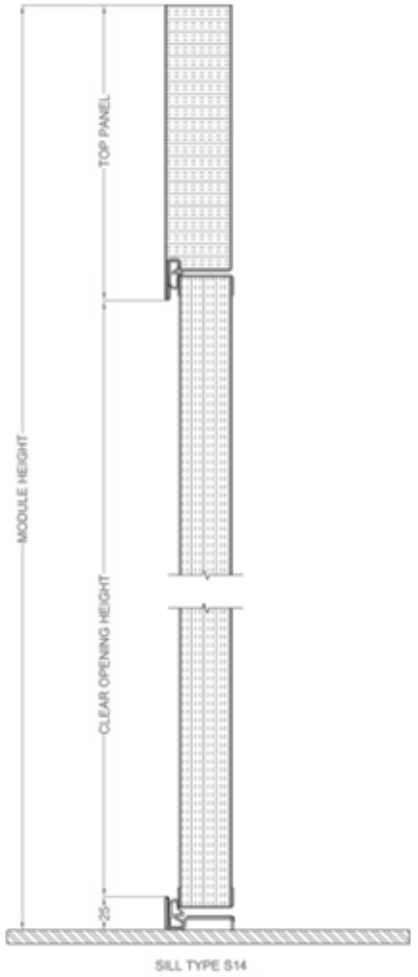
# DOORS / TECHNICAL DETAILS B-RATED N-MC



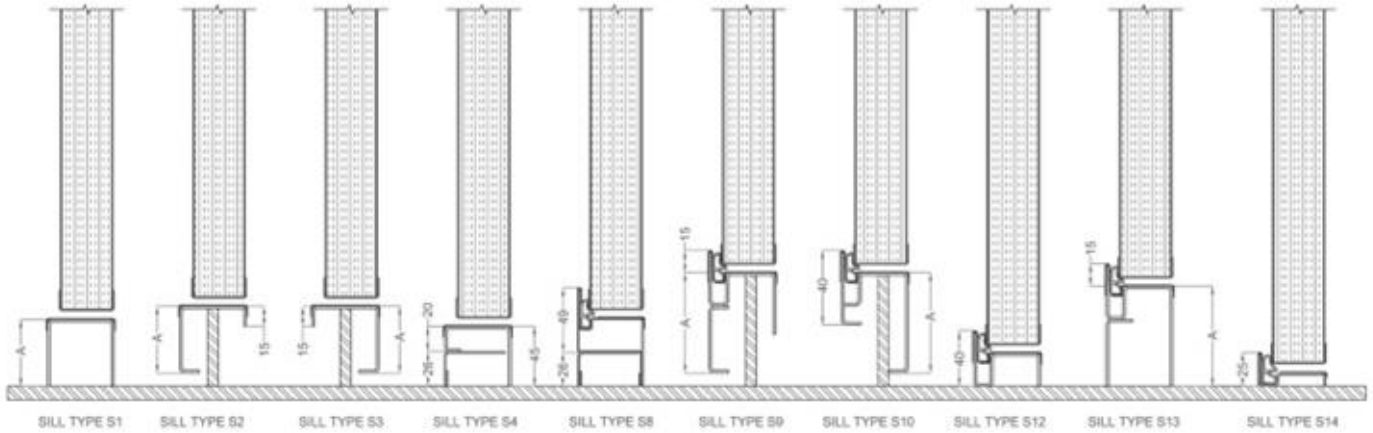
TOP VIEW:




SIDE VIEW:



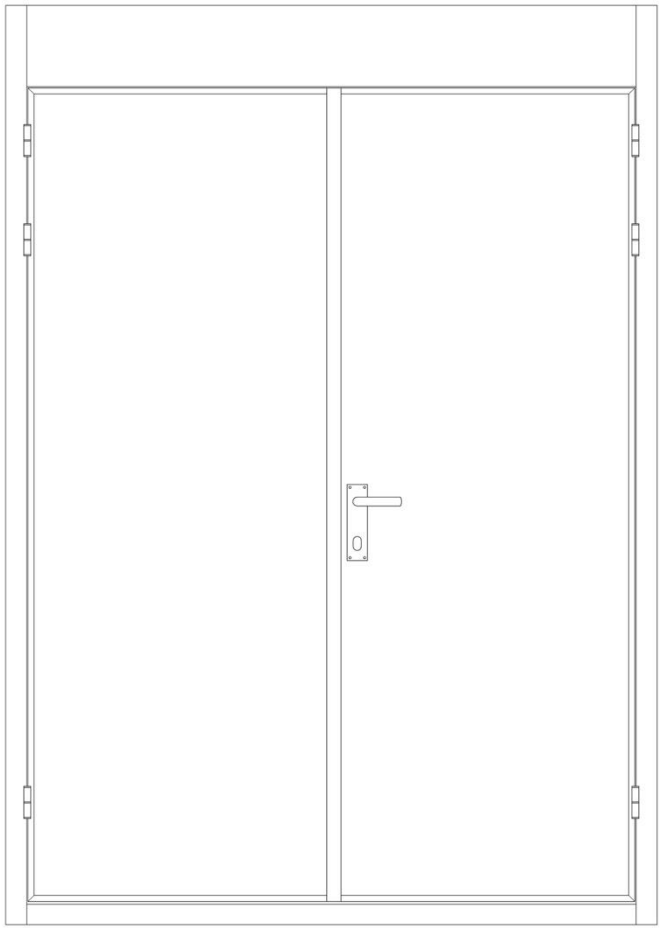

SILL TYPES:



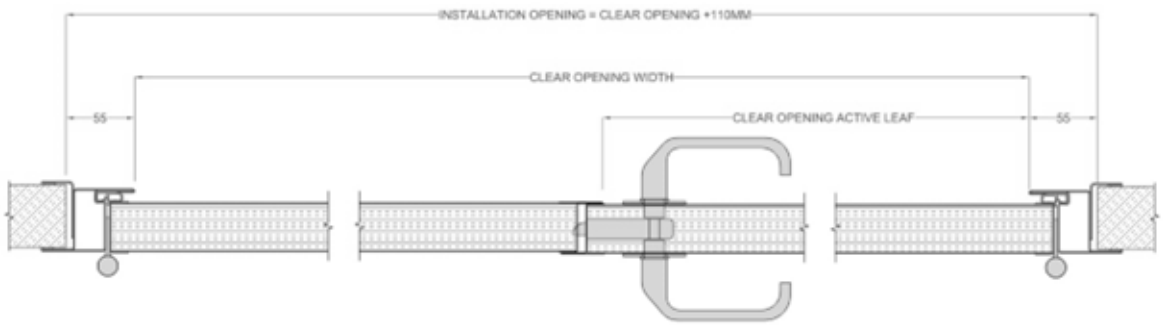
# DOORS B-RATED N-MLDD

The MLDD is a double leaf door with a wide field of application. It can be used for areas with requirements of large clear opening width up to 1600 mm.

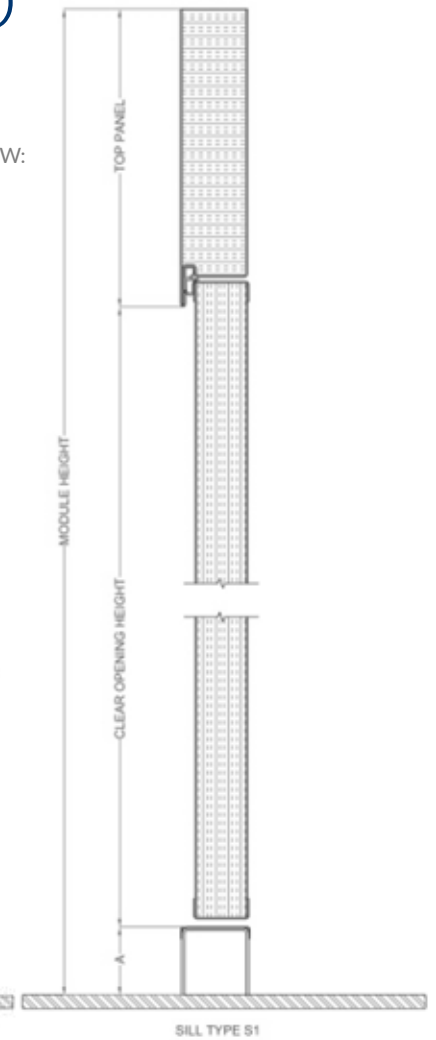
# DOORS / TECHNICAL DETAILS B-RATED N-MLDD



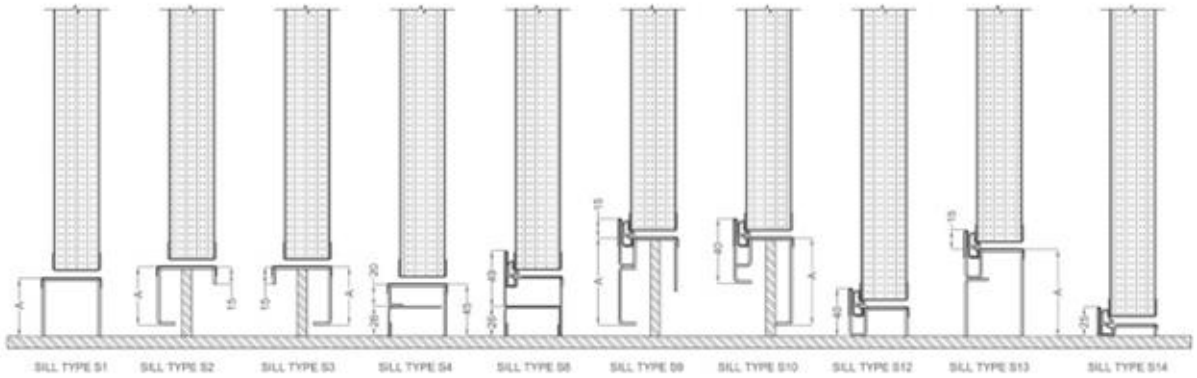
TOP VIEW:




SIDE VIEW:



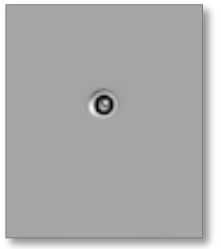

SILL TYPES:



# DOORS B-RATED N-CD

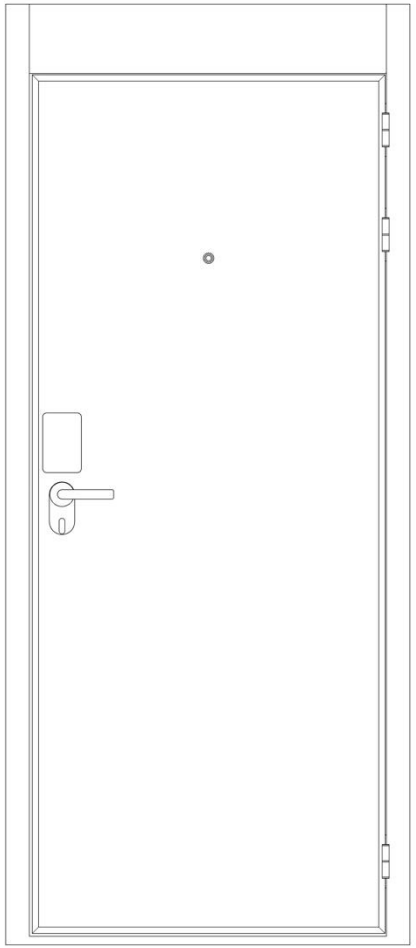
The CD door is specially designed as an entry door for cabins on cruise vessels. It has a high sound reduction value (Rw) of 44 dB and can be equipped with a RFID door lock system, door viewer and door closer.

The functionality and durability of the CD door has been tested according EN1191:2012, where it exceeded 200 000 opening and closing cycles.

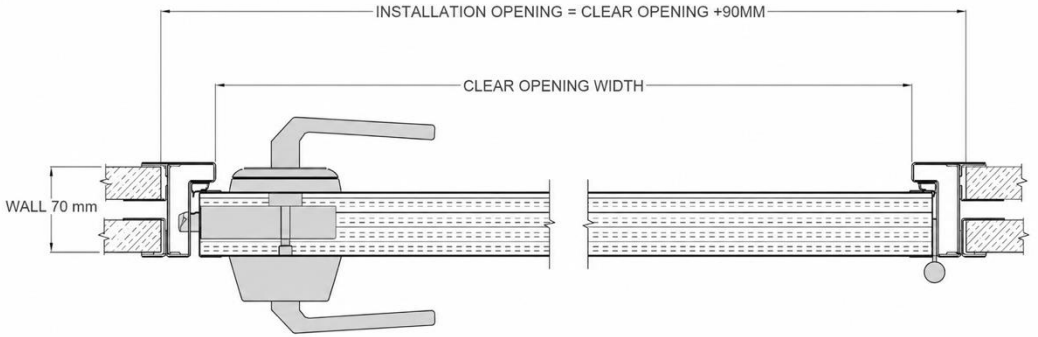


Available with peep hole

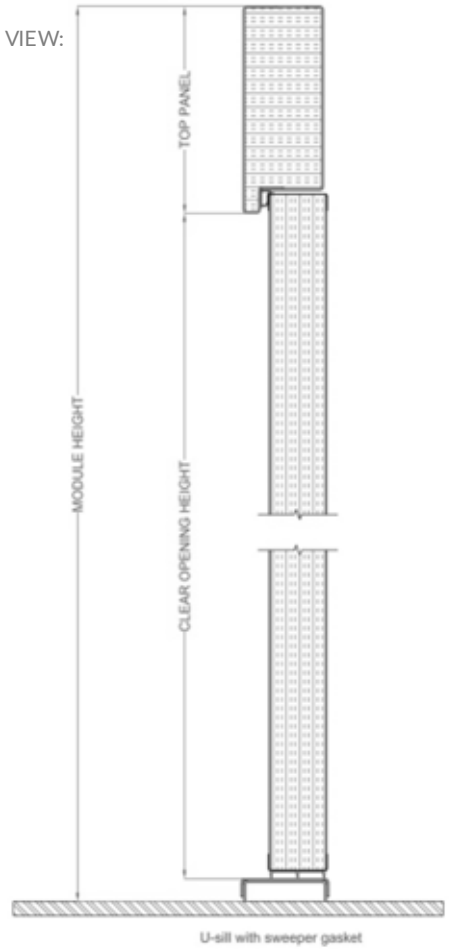
# DOORS / TECHNICAL DETAILS B-RATED N-CD



TOP VIEW:



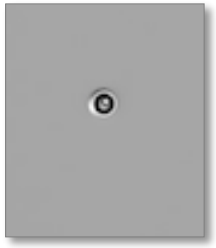

SIDE VIEW:



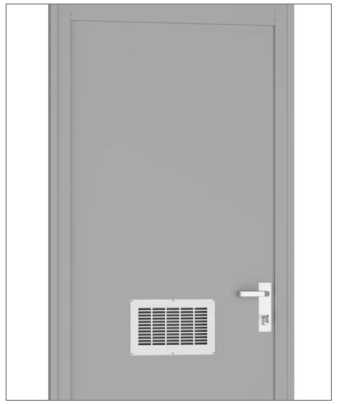
# DOORS B-RATED N-CD-II

The CD-II door is specially designed as an entry door for cabins on cruise vessels. It is a lightweight cabin door with a high sound reduction value (Rw) of 39 dB and can be equipped with a RFID door lock system, door viewer and door closer.

The door can also be equipped with Z-ventilation, which achieves a sound reduction value (Rw) of 37/38 dB.

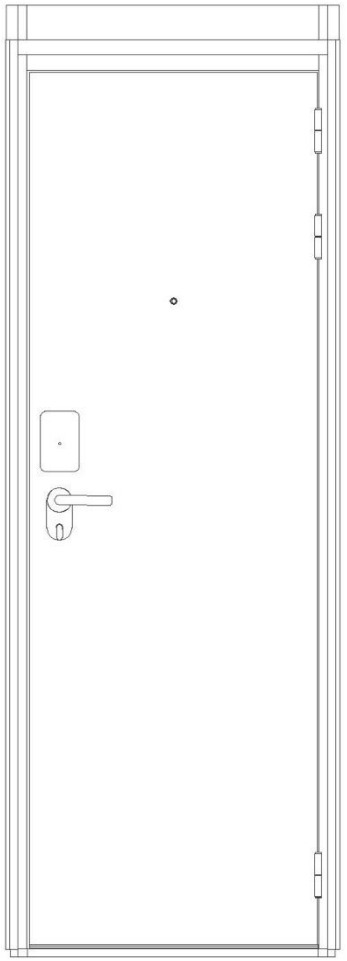


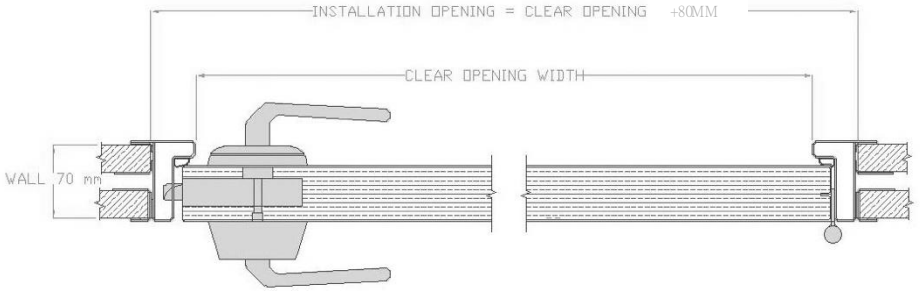
Available with peep hole



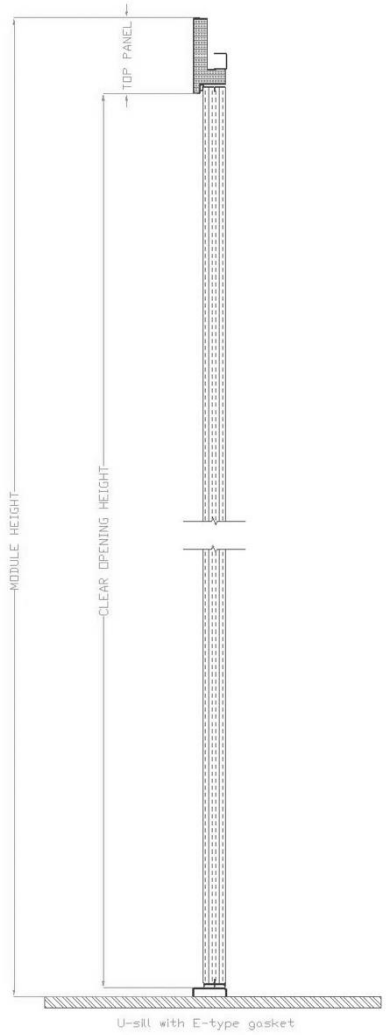
Available with Offset ventilation

# DOORS / TECHNICAL DETAILS B-RATED N-CD-II






SIDE VIEW:

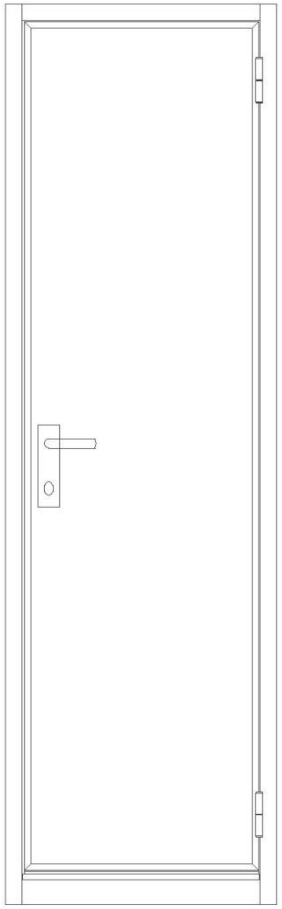


# DOORS B-RATED N-CCD

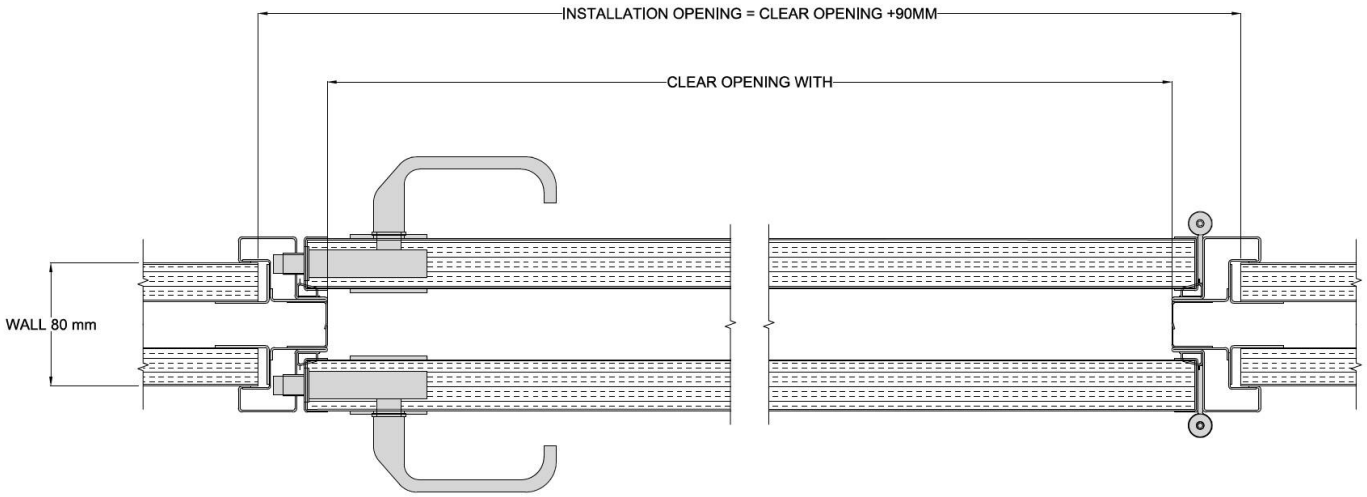
The CCD is a cabin connection door specially designed to combine two separate cabins to a larger family cabin. The door construction consists of two door leaves within one door frame, where each door leaf is swinging in the opposite direction.

The CCD door has an excellent sound reduction value (Rw) of 46 dB.

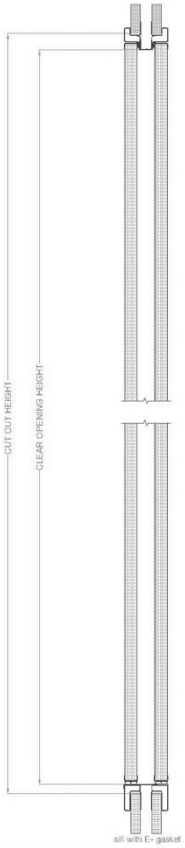
# DOORS / TECHNICAL DETAILS B-RATED N-CCD



TOP VIEW:




SIDE VIEW:

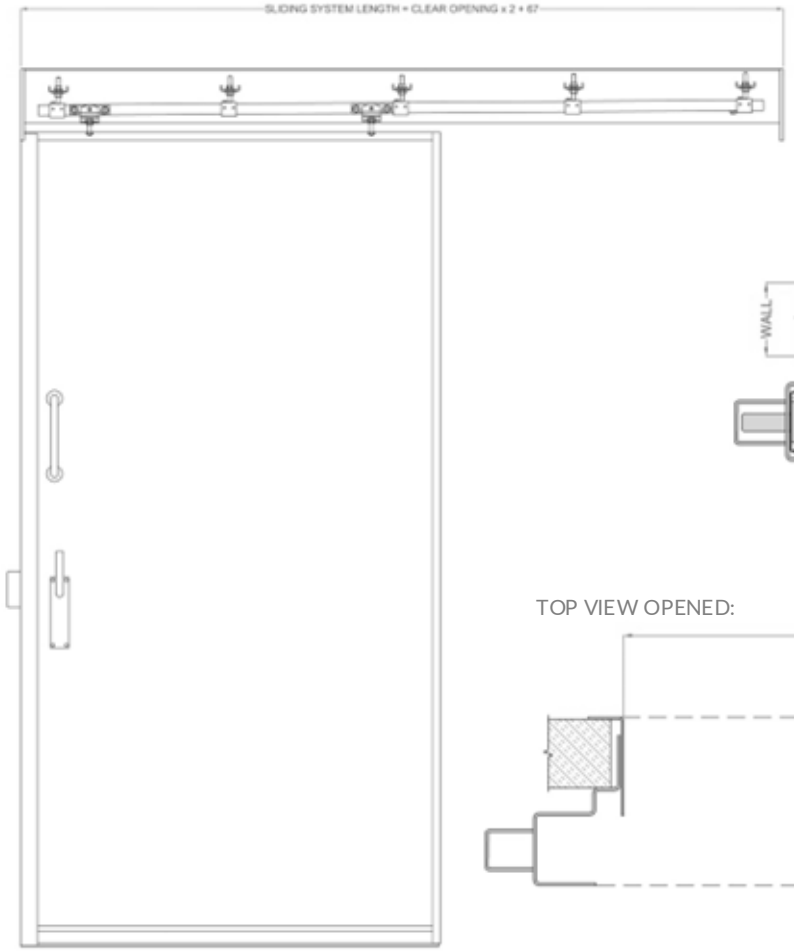


# DOORS B-RATED N-SD

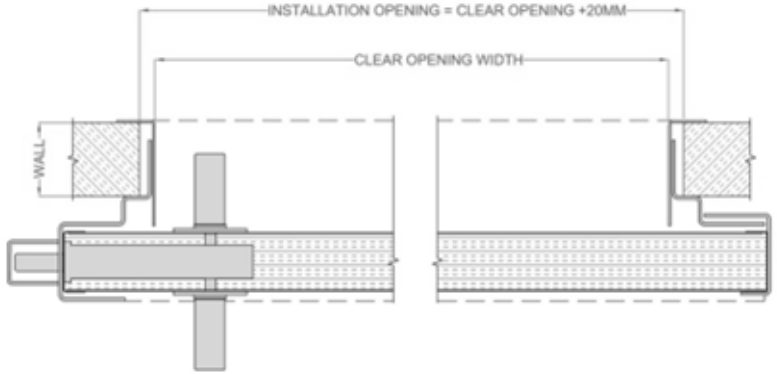
Norac's SD door is a sliding door that can be used in areas where a hinged door would have little room to completely swing open.

The door can be delivered as a manually operated door or with electrically operated door drive system.

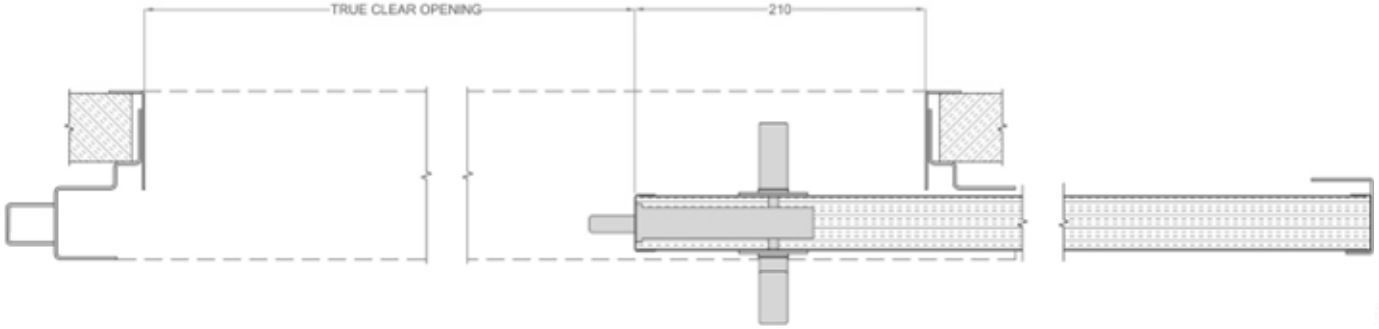
# DOORS / TECHNICAL DETAILS B-RATED N-SD



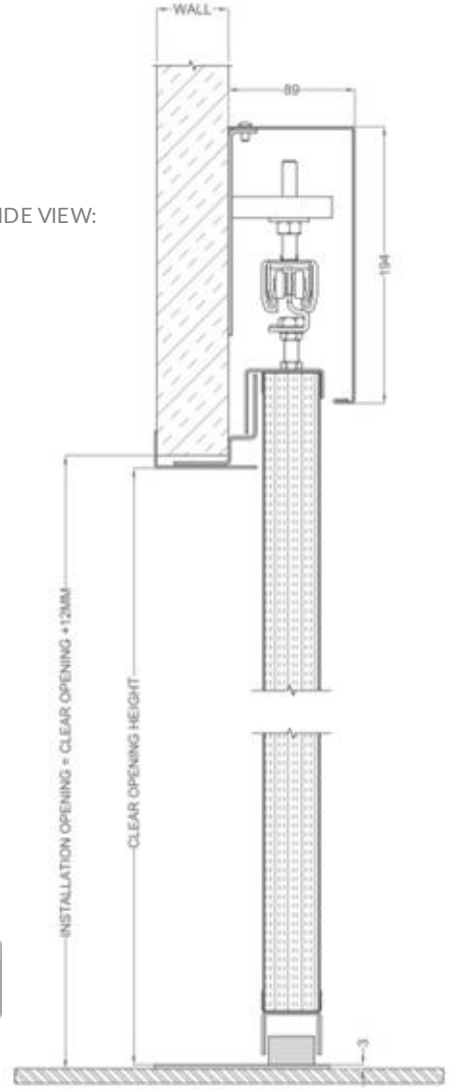

TOP VIEW:




TOP VIEW OPENED:




SIDE VIEW:



# NOTES

# DOORS A-RATED

Norac is developing a complete range of A-rated marine interior doors.
The doors are easy to install and can be bolted or welded to the bulkhead.

All A-doors can be delivered with painted, stainless steel or PVC coated surface.

| DESCRIPTION | N-HD A-30 | N-HD A-60 | N-HD A-60 DD | N-HD A-60 Hatch |
|---|---|---|---|---|
| Fire class | A-0/A-30 | A-60 | A-60 | A-60 |
| Surface door leaf | Painted, stainless steel or PVC coated or laminated | Painted, stainless steel or PVC coated or laminated | Painted, stainless steel or PVC coated or laminated | Painted, stainless steel or PVC coated or laminated |
| Frame (and top element) | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel | Painted* or stainless steel |
| Thickness door leaf | 49 mm | 63 mm | 63 mm | 63 mm |
| Weight | 90 kg** | 110 kg** | 150 kg** | 110 kg** |
| Core material | Ceramic wool | Rockwool | Rockwool | Rockwool |
| Max clear opening (W x H) | 1000 x 2100 mm *** | 1000 x 2100 mm | 1900 x 2100 mm | 1000 x 2100 mm |
| Sound reduction | Rw= 36 dB | Rw= 40 dB | NA | Rw= 40 dB |
| Standard specification | ECO TrioVing/Schwepper/Dormakaba | ECO TrioVing/Schwepper/Dormakaba | ECO TrioVing/Schwepper/Dormakaba | ECO TrioVing/Schwepper/Dormakaba |
| Application | Internal doors | Internal doors | Internal doors | Internal doors |
| Testet for Gas tightness | x | x | | x |

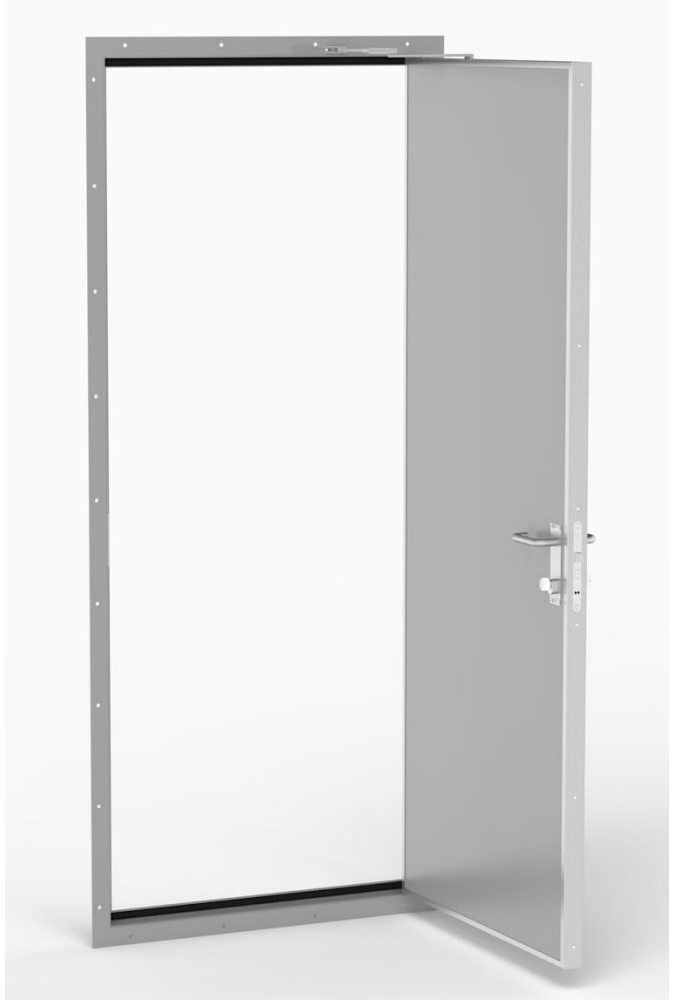
* According to NCS & RAL colours.
** Weight is based on a door with clear opening 1000 x 2000 mm.
*** Door dimensions can be marginally increased according to IMO MSC.1/Circ. 1319

| OPTIONS | N-HD A-30 | N-HD A-60 | N-HD A-60 DD | N-HD A-60 Hatch |
|---|---|---|---|---|
| Vision panel | x | x | x | x |
| Hose port | x | x | x | x |
| Door closer | x | x | x | x |
| Indicator | x | x | x | x |

# DOORS A-RATED N-HD A-30

The A-30 door is a solid, lightweight door to be used in A-0 or A-30 fire-rated bulkheads.

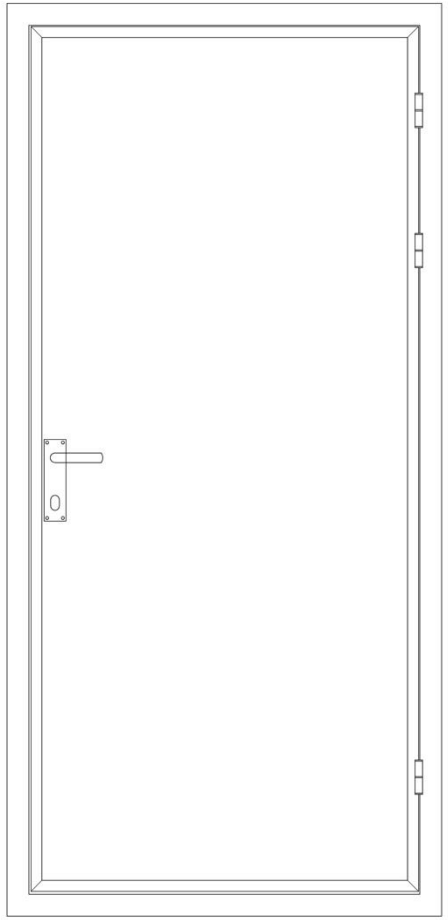
The door can be equipped with vision panel, hose port and door closer.



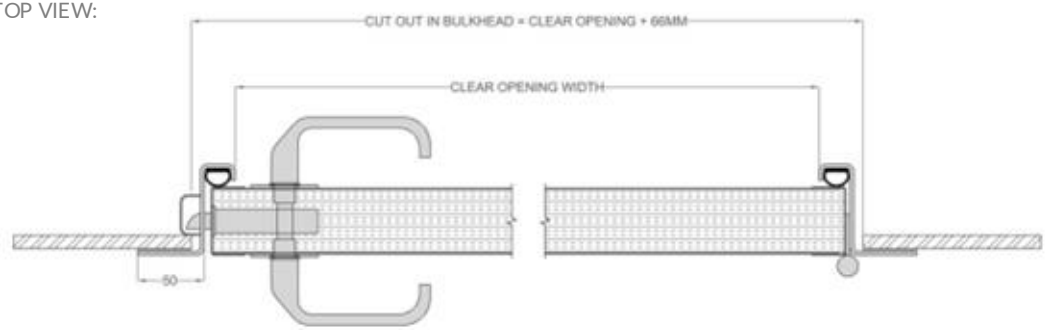
Available with vision panel

Available with hose port

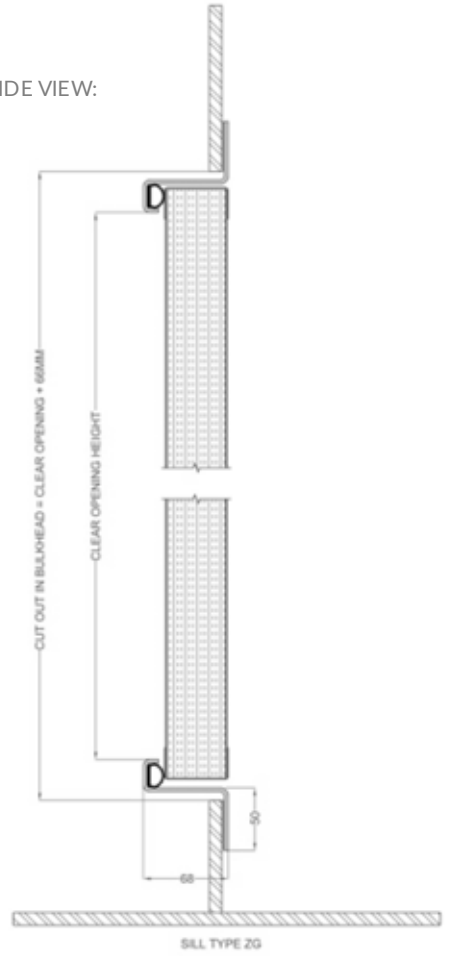
# DOORS / TECHNICAL DETAILS A-RATED N-HD A-30



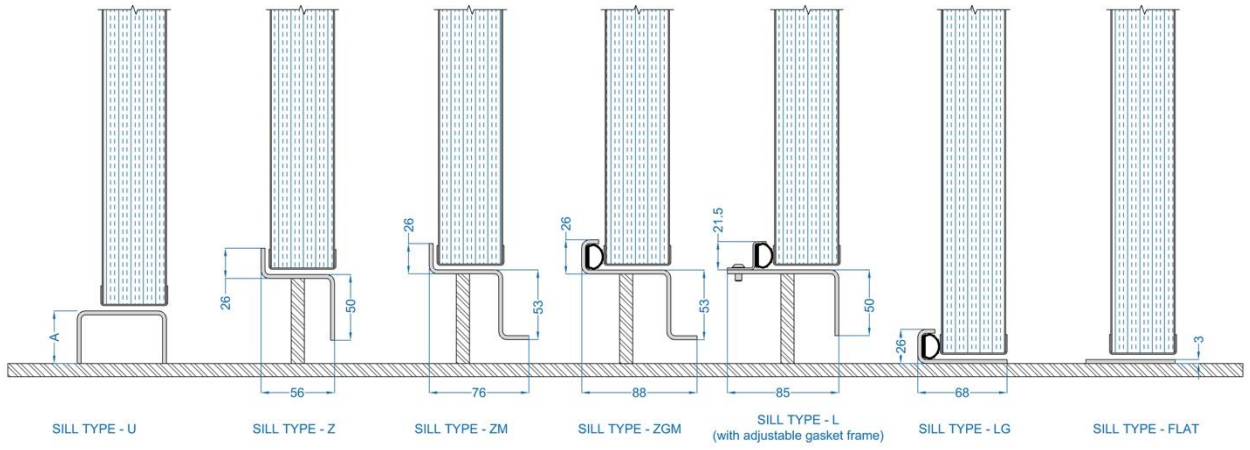
TOP VIEW:




SIDE VIEW:




SILL TYPES:



# DOORS A-RATED N-HD A-60

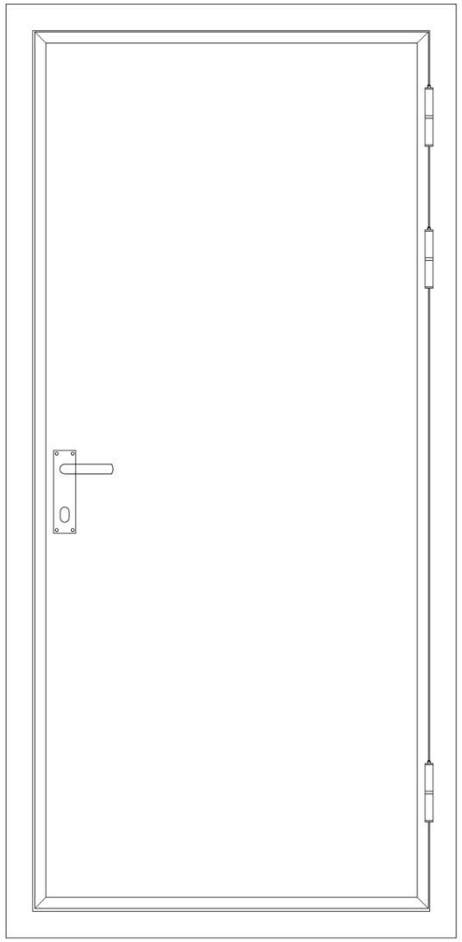
The A60 door is a solid door to be used in A60 fire rated bulkheads. The door leaf can be delivered in stainless steel, laminated, painted or PVC coated steel.

The door can be equipped with vision panel, hose port and door closer.

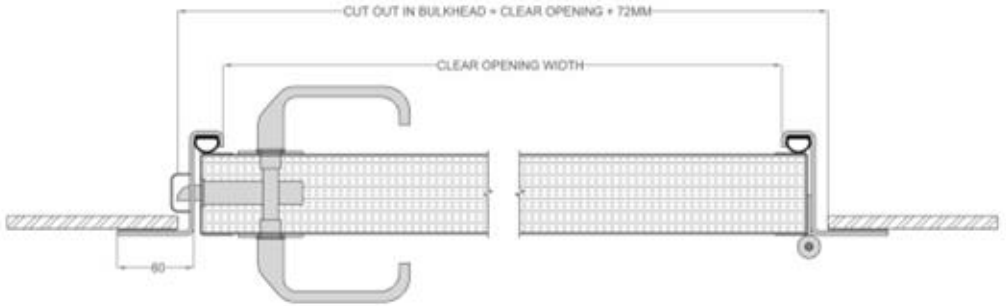
Available with vision panel

Available with hose port

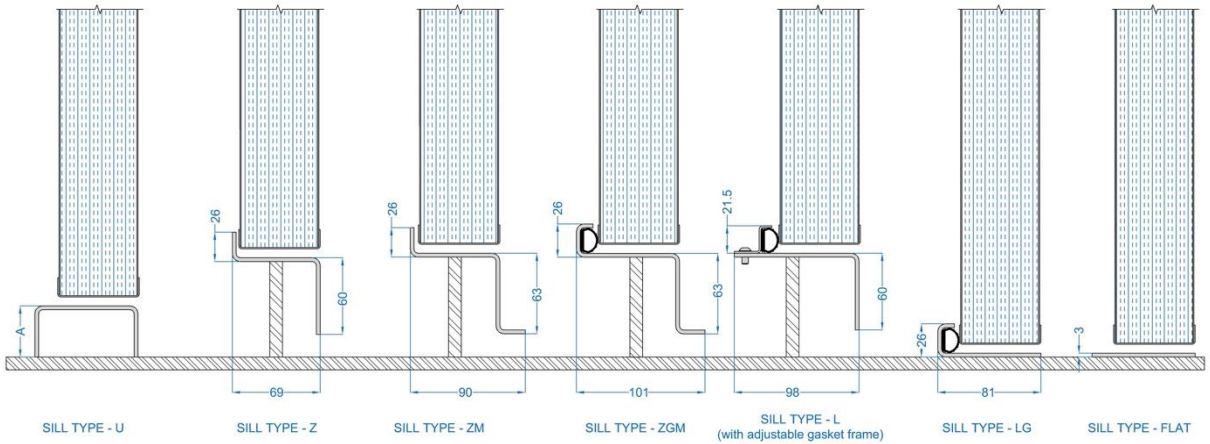
# DOORS / TECHNICAL DETAILS A-RATED N-HD A-60



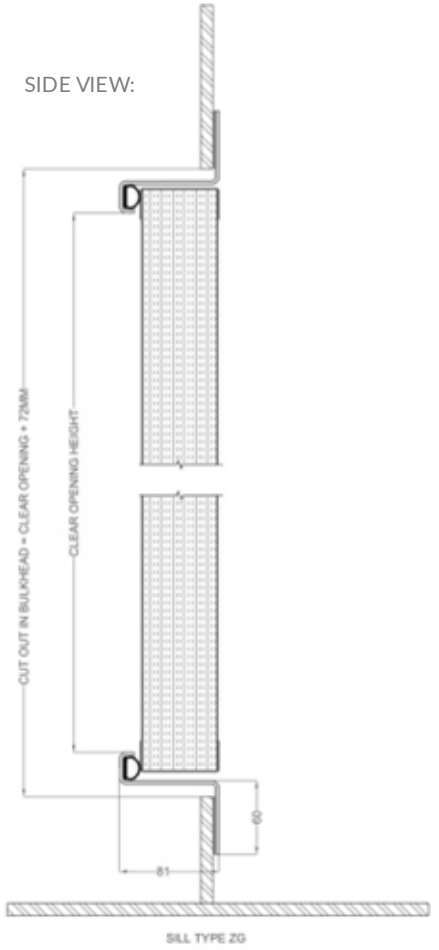
TOP VIEW:




SILL TYPES:




SIDE VIEW:

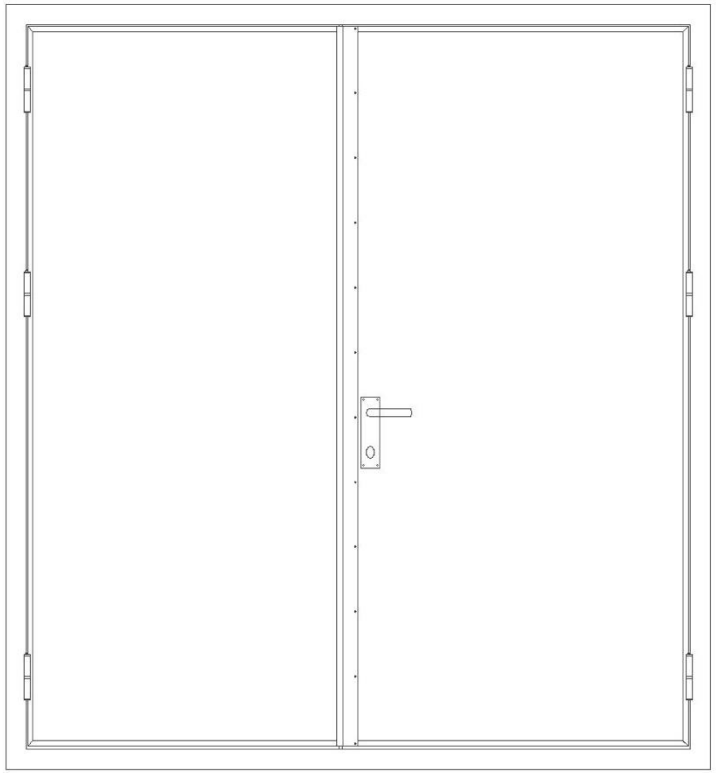


# DOORS A-RATED N-HD A-60DD

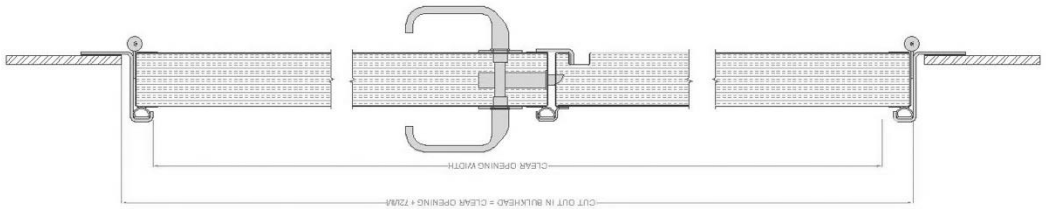
The A-60 DD is a solid double door to be used in A-60 fire-rated bulkheads. The door leaf can be delivered in stainless steel, laminated, painted or PVC coated steel.
It can be used for areas with requirements of large clear opening width up to 1900 mm.

The door can be equipped with vision panel, hose port and door closer.

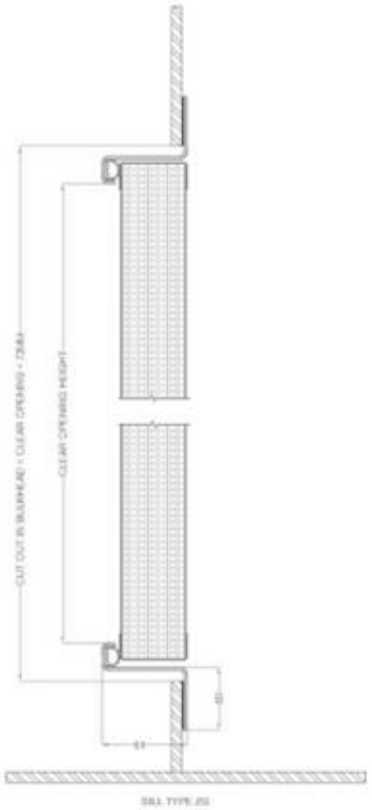
# DOORS / TECHNICAL DETAILS A-RATED N-HD A-60DD



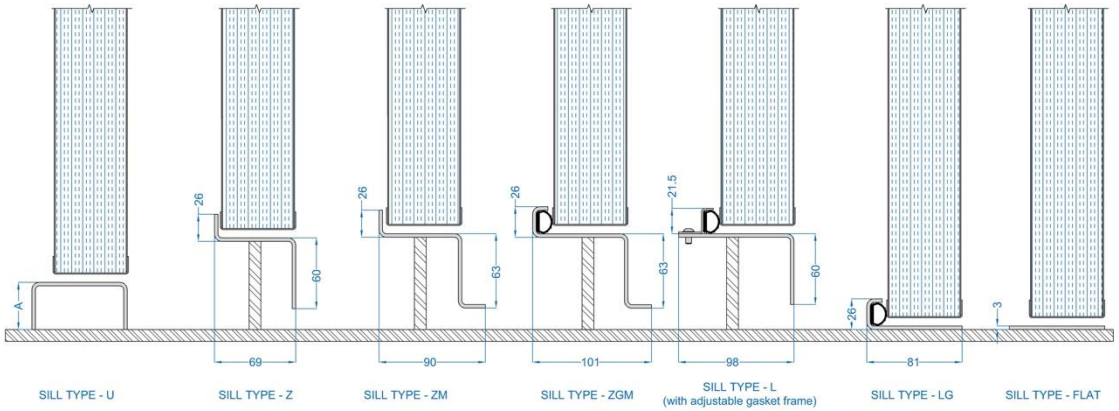
TOP VIEW:



SIDE VIEW:



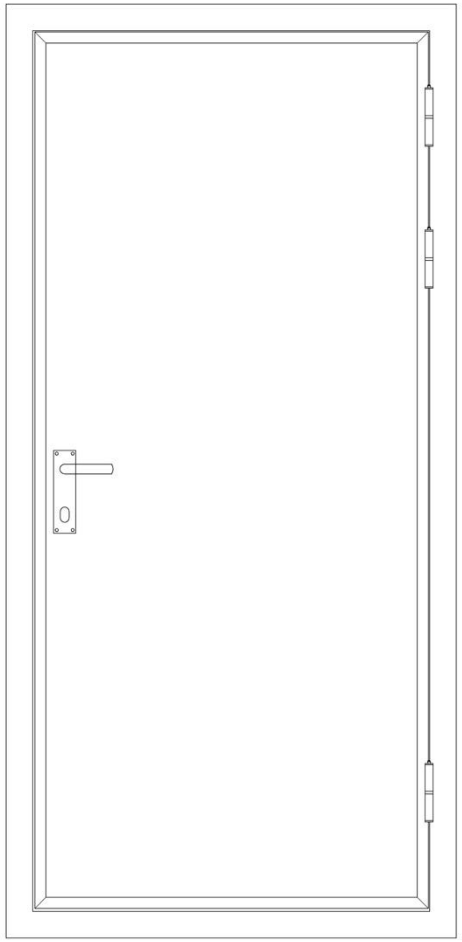
SILL TYPES:



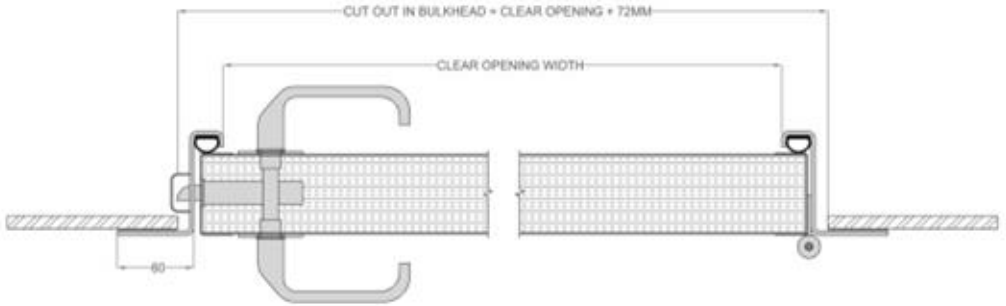
# DOORS A-RATED N-HD A-60 HATCH

The A-60 Hatch is a hatch which can be installed in steel bulkhead and A-rated composite bulkheads.
The A-60 hatch can also be delivered with recessed handles, window, indicator and hose port.

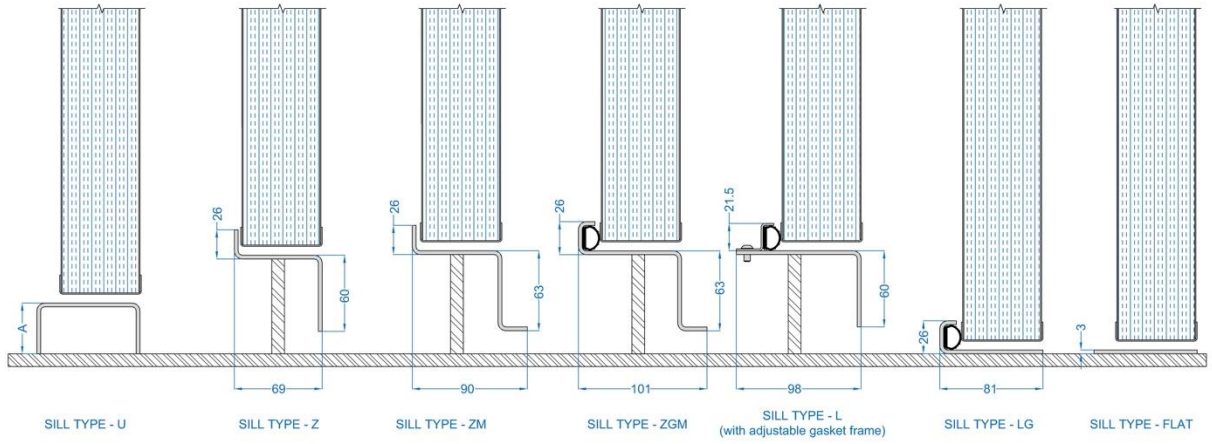
# DOORS / TECHNICAL DETAILS A-RATED N-HD A-60 HATCH



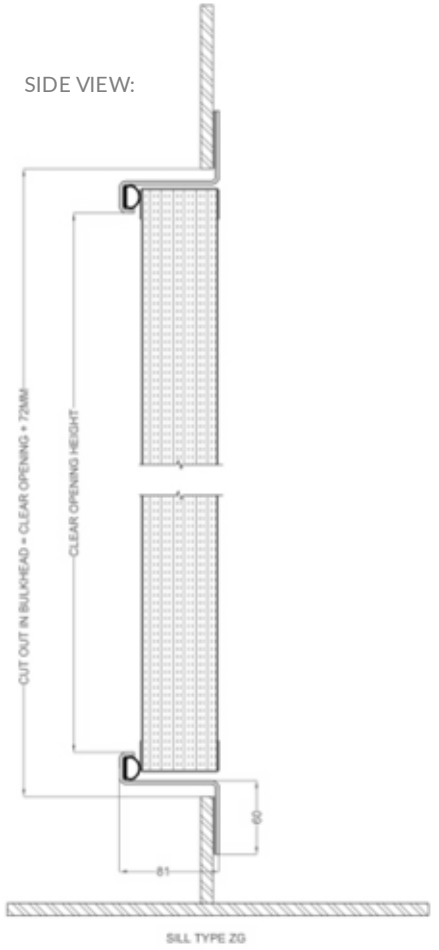
TOP VIEW:




SILL TYPES:




SIDE VIEW:



# DOORS NON-RATED

Norac can deliver custom door designs. Standard and tailor-made models are available.
The doors can be delivered with painted, stainless steel or PVC coated surface.

| DESCRIPTION | Single Swing door | Double Swing Door |
|---|---|---|
| Fire class | A-0/A-30 | A-60 |
| Surface door leaf | Painted, stainless steel or PVC coated or laminated | Painted, stainless steel or PVC coated or laminated |
| Frame (and top element) | Painted* or stainless steel | Painted* or stainless steel |
| Thickness door leaf | Variable | Variable |
| Weight | Variable | Variable |
| Core material | Rockwool | Rockwool |
| Max clear opening (W x H) | Variable | Variable |
| Sound reduction | NA | NA |
| Standard specification | TrioVing/Schwepper/Dormakaba | TrioVing/Schwepper/Dormakaba |
| Application | Internal doors | Internal doors |

* According to NCS & RAL colours.

# DOORS NON-RATED SINGLE AND DOUBLE SWING

The Swing Door is ideal for use in non-rated partitions and heavily trafficked areas where performance and practicality matter.

# OUR OFFICES

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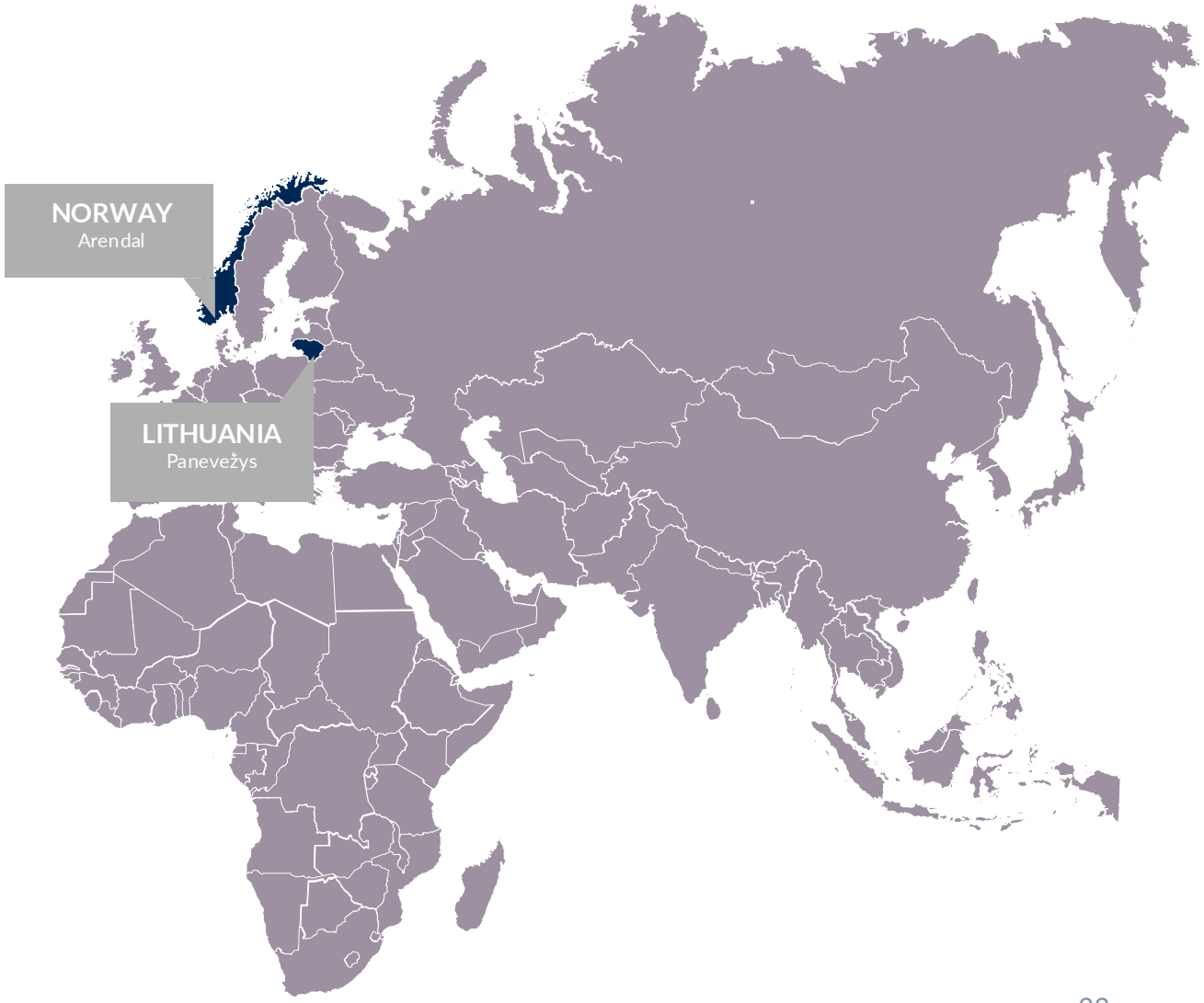
Phone: +370 45 443602



*Norac's head office in Arendal, Norway.*

www.norac.no

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