



ROLLER SHUTTERS

IN ALUMINIUM OR STEEL

Synthesis of functionality and flexibility



Own Production



100% Tested



High quality



International



Security



Easy to assemble



COMPANY PROFILE;

Novodoor is specialized in supplying total doors and ironmongery solutions for large projects such as airports, hotels, shopping centers and industrial complexes. Novodoor has been involved in many complex international air projects for door solutions as Istanbul Airport, Muscat Airport and Doha Airport.

The headquarters of Novodoor is in Istanbul and we have local production for fire rated steel doors and roller shutters. Novodoor is producing roller shutters according to different standards such as TSE, EN Standards, BS Standards and ANSI Standards. We have in our scope various type of roller shutters such as fire rated EI60-EI240, acoustical 35-57db, thermal insulated, wind-rated and blast rated doors up to 7 bars.

Novodoor cooperates with different strategic partners and distributors outside Turkey for support of sales and services.

NOVO DOOR

Door Solutions

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FIRE RESISTANT ROLLER SHUTTER

E240 



NS80



NOVODOOR is a Turkey based designer and manufacturer of fire resistant non-insulated roller shutter doors. We are manufacturing a wide range of innovative commercial, domestic, industrial non-insulated fire rated roller shutter doors offering up to E240, all third-party tested and approved.

NOVODOOR NS80 model of non-insulated fire rated roller shutter (E240) is manufactured using single-skinned 80mm curved steel slat with galvanized end locks riveted to the slats maintain curtain alignment and prevent wear. An emergency hand chain is optional in the event of electrical or mechanical failure. The fire rated roller shutter operation is available with an extensive range of control options.

These shutters are designed to automatically activate your door in the event of fire. Once the door is in the closed position, this prevents the fire from passing through the building, allowing occupants to safely evacuate. Although this door is specifically designed for fire rated openings, it also provides security and access control for use in openings that are not part of a required means of egress.

In the event of a fire, NOVODOOR fire rated roller shutters are used as a structural barrier in full height openings to compartmentalize the building and prevent the spread of fire. Receiving sign of fire from building alarm system, the shutter drops at a safe and reliable rate of speed.

NOVODOOR single-skinned steel shutters are the most economical way to secure an opening and/or separate against spreading the fire. The clear and reliable choice for building owners and designers who demand the highest level of life safety and fire protection. Mechanically, fusible-link options are available for openings that are not in a pedestrian thoroughfare and where electrical activation is not desired.

Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Polyester powder coat in a range of standard RAL color is available on request.

Certificate

Fire Rated Roller Shutter (E240)
Certificate No: EEA-1900-0106 dated 24.10.2019

Ideal Uses

Application in indoor / outdoor for industrial buildings, Loading Bays, Warehouses, Factories, Hospitals, Large commercial buildings, Airports, Canteens, Restaurants, Shopping Mall, Car parks, Department stores and Fire explosion hazardous areas.

Performance Characteristics:

Resistance to Fire : EN 1634-1:2014 + A1 :2008, rated E240
Classified according to EN 13501-2 :2016
Extended application of test results according to EN 15269-10:2011

Accreditations

EN 1634-1:2014+A1:2018 Fire resistance

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

Technical support will be provided to the construction site after order confirmation.



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INSULATED FIRE RESISTANT ROLLER SHUTTER

E240



NS100

NOVODOOR is a Turkey based designer and manufacturer of fire-resistant insulated roller shutter doors. We are manufacturing a wide range of innovative commercial, domestic, industrial insulated fire rated roller shutter doors offering up to E240, all third-party tested and approved.

NOVODOOR NS100 model of insulated fire rated roller shutter (E240) is manufactured using double-skinned 100mm steel flat slat, filled with rock wool to provide heat, sound and fire insulation with galvanized end locks riveted to the slats maintain profile/curtain alignment and prevent wear. An emergency hand chain can be provided in the event of electrical or mechanical failure. The insulated fire rated roller shutter operation is available with an extensive range of control options.

These shutters are designed to automatically activate your door in the event of fire. Once the door is in the closed position, this prevents the fire from passing throughout the building, allowing occupants to safely evacuate. Although this door is specifically designed for fire rated openings, it also provides security and access control for use in openings that are not part of a required means of egress.

In the event of a fire, NOVODOOR insulated fire rated shutters are used as a structural barrier in full height openings to compartmentalize the building and prevent the spread of fire. Receiving sign of fire from building alarm system, the shutter drops at a safe and reliable rate of speed.

NOVODOOR insulated fire shutter contains mineral rock wool which helps control climate and reduce sound transmission. This door is ideal for a climate-controlled environment because it helps maintain a different temperature on the interior and exterior of the door. The curtain infill insulation considerably reduces the risk of combustible materials igniting on the unexposed side when compared to single-skinned fire shutters. The clear and reliable choice for building owners and designers who demand the highest level of life safety and fire protection. Mechanically, fusible-link options are available for openings that are not in a pedestrian thoroughfare and where electrical activation is not desired.

Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Polyester powder coat in a range of standard RAL colors is available on request.

Certificate

Insulated Fire Rated Roller Shutter (E240)
Certificate No: EEA-2200-0034 dated 22.07.2022

Performance Characteristics:

Resistance to Fire : EN 1634-1:2014 + A1 :2008, rated E240 Classified according to EN 13501-2 :2016
Extended application of test results according to EN 15269-10:2011

Accreditations

EN 1634-1:2014+A1:2018 Fire resistance

Ideal Uses

Application in indoor / outdoor for Industrial buildings, Loading Bays, Warehouses, Factories, Hospitals, Large commercial buildings, Airports, Canteens, Restaurants, Shopping mall, Car parks, Department stores and Fire explosion hazardous environments, Other areas where a high level of security is required as well as a high degree of insulation.

Technical support will be provided to the construction site after order confirmation.

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

INSULATED FIRE RESISTANT ROLLER SHUTTER

NS170
EI120 

NOVODOOR is a Turkey based designer and manufacturer of fire-resistant insulated roller shutter doors. We are manufacturing a wide range of innovative commercial, domestic, industrial insulated fire rated roller shutter doors offering up to EI120, all third-party tested and approved.

NOVODOOR NS170 model of insulated fire rated roller shutter (EI120) is manufactured using double-walled 170mm steel flat slat, filled with board and ceramic wool to provide heat, sound, and fire insulation with galvanized end locks riveted to the slats maintain profile/curtain alignment and prevent wear. An emergency hand chain can be provided in the event of electrical or mechanical failure. The insulated fire rated roller shutter operation is available with an extensive range of control options.

These shutters are designed to automatically activate your door in the event of fire. Once the door is in the closed position, this prevents the fire from passing throughout the building, allowing occupants to safely evacuate. The fire shutter works to compartmentalize a building to eliminate the spread of flames, keeping the fire isolated. Although this door is specifically designed for fire rated openings, it also provides security and access control for use in openings that are not part of a required means of egress.

In the event of a fire, NOVODOOR insulated fire rated shutters are used as a structural barrier in full height openings to compartmentalize the building and prevent the spread of fire. Receiving sign of fire from building alarm system, the shutter drops at a safe and reliable rate of speed.

NOVODOOR insulated fire shutter contains double-walled profiles filled with high performance materials which helps control climate and reduce sound and heat transmissions. This door is ideal for a climate-controlled environment, sound transmission. It helps maintain a different temperature on the interior and exterior of the door. The curtain infill insulation considerably reduces the risk of combustible materials igniting on the unexposed side when compared to non-insulated and insulated fire shutters (E240). The clear and reliable choice for building owners and designers who demand the highest level of life safety and fire protection. Mechanically, fusible-link options are available for openings that are not in a pedestrian thoroughfare and where electrical activation is not desired.

NOVODOOR double-walled steel shutters secure an opening and/or compartmentalize against a spreading fire. In the event of a fire, the fire door functionality of this door allows it to save lives and protect property. An insulated fire door is perfect for an Ideal Uses Accreditations Warehouses, factories, hospitals, airports, libraries, large application that is currently exterior, but there is a planned expansion that will require the opening to be fire rated in the future. Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Polyester powder coat in a range of standard RAL colors is available on request.

Certificate

Rated Roller Shutter (EI120)

Certificate no: EEA-2000-0021 dated 04.03.302120

Ideal Uses

Application in indoor / outdoor for Industrial buildings, Loading Bays, Warehouses, Factories, Hospitals, Large commercial buildings, Airports, Canteens, Restaurants, Shopping mall, Car parks, Department stores and Fire explosion hazardous environments, Other areas where a high level of security is required as well as a high degree of insulation.

Accreditations

EN 1634-1:2014+A1:2018 Fire resistance

Performance Characteristics:

Resistance to Fire : EN 1634-1:2014 + A1 :2008, rated EI120

Classified according to EN 13501-2 :2016

Extended application of test results according to EN 15269-10:2011

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

Technical support will be provided to the construction site after order confirmation.



NS100

35 dB 

SOUND PROOF ACOUSTIC ROLLER SHUTTER

NOVODOOR is a Turkey based designer and manufacturer soundproof acoustic door systems. We offer a wide range of innovative commercial soundproof door solutions offering sound reduction levels of up to Rw57dB, all third-party tested and approved. NOVODOOR acoustic roller shutter doors have been developed for use in a multitude of environments with a wide range of domestic, industrial, and commercial applications and in sound sensitive environments where the objective is either to keep sound in or keep it out.

NOVODOOR NS100 model of soundproof acoustic roller shutter (RW35dB) is manufactured using double-skinned 100mm steel flat slat with infilled special high performance insulation sound barrier materials. An emergency hand chain can be provided in the event of electrical or mechanical failure. The shutter operation is available with an extensive range of control options.

These doors are perfect for external apertures like the power stations for industrial use and great internal separators for domestic and commercial use they work as sound-break between the two areas such as exhibition halls. Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Acoustic roller shutters act as weatherproof and secure closures that provides high thermal as well as acoustic insulation.

The sound insulated shutters (RW35dB) require a low top space. Polyester powder coat in a range of standard RAL colors is available on request. It is also an ideal commercial acoustic door to be installed with our other acoustic doors where extra high sound attenuation levels are required.

Certificate

Acoustic Rated insulated roller shutter (Rw=35,4 dB)
Certificate No : LAB17-DS/195 dated 08.04.2020

Accreditations

EN ISO 10140-2 :2013 – Measurements of Airborne Sound Insulation

Performance Characteristics:

Sound reduction index Rw (C; Ctr)= 35,4 (-2 ; -5) dB /
EN ISO 717-1:2013

Ideal Uses

Warehouses, factories, hospitals, airports, libraries, large commercial buildings, restaurants, art galleries.

Technical support will be provided to the construction site after order confirmation.

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)



SOUND PROOF ACOUSTIC ROLLER SHUTTER

NS100

38 dB 



NOVODOOR is a Turkey based designer and manufacturer of soundproof acoustic door systems. We offer a wide range of innovative commercial soundproof door solutions offering sound reduction levels of up to Rw57dB, all third-party tested and approved. NOVODOOR acoustic roller shutter doors have been developed for use in a multitude of environments with a wide range of domestic, industrial, and commercial applications and in sound sensitive environments where the objective is either to keep sound in or keep it out.

NOVODOOR NS100 model of soundproof acoustic roller shutter (RW38dB) is manufactured using double-skinned 100mm steel flat slat with infilled special high performance insulation sound barrier materials. An emergency hand chain can be provided in the event of electrical or mechanical failure. The shutter operation is available with an extensive range of control options.

These doors are perfect for external apertures like the power stations for industrial use and great internal separators for domestic and commercial use they work as sound-break between the two areas such as exhibition halls. Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Acoustic roller shutters act as weatherproof and secure closures that provides high thermal as well as acoustic insulation.

Approved sound insulation (RW38dB) with low space requirements and robust roller shutter door technique. Our acoustic roller shutter can be used like a normal electrically operated rolling door. Polyester powder coat in a range of standard RAL colors is available on request. It is also an ideal commercial acoustic door to be installed with our other acoustic doors where extra high sound attenuation levels are required.

Certificate

Insulated roller shutter (Rw=38,5 dB)
Certificate No : LAB17-DS/194 dated 08.04.2020

Accreditations

EN ISO 10140-2
2013 – Measurements of Airborne Sound Insulation

Performance Characteristics:

Sound reduction index Rw (C; Ctr)=38,5 (-2;-7) dB according to EN ISO 717-1:2013

Ideal Uses

Loading bays, warehouses, factories, hospitals, large commercial buildings, boiler and turbine halls, airports, restaurants, recording and tv studios, cultural centers, art galleries, libraries, opera houses and ballrooms.

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

**Technical support will be provided to the
construction site after order confirmation.**



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SOUND PROOF ACOUSTIC ROLLER SHUTTER

NS100
43 dB 

NOVODOOR is a Turkey based designer and manufacturer of soundproof acoustic door systems. We offer a wide range of innovative commercial soundproof door solutions offering sound reduction levels of up to Rw57dB, all third-party tested and approved. NOVODOOR acoustic roller shutter doors have been developed for use in a multitude of environments with a wide range of domestic, industrial, and commercial applications and in sound sensitive environments where the objective is either to keep sound in or keep it out.

Consisting of two shutters (acoustic roller shutter*double-skinned 100mm steel flat slat + E240 fire rated roller shutter* single-skinned 80mm curved steel slat). The combined special two roller shutters provide a successful sound reduction level up to RW43dB. An emergency hand chain can be provided in the event of electrical or mechanical failure. The shutter operation is available with an extensive range of control options.

These doors are perfect for external apertures like the power stations for industrial use and great internal separators for domestic and commercial use they work as sound-break between the two areas such as exhibition halls. Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Acoustic roller shutters act as weatherproof and secure closures that provides high thermal as well as acoustic insulation.

Approved sound insulation (RW43dB) with low space requirements and robust roller shutter door technique. Our acoustic roller shutter and fire rated roller shutter can be used like a normal electrically operated rolling door. Polyester powder coat in a range of standard RAL colors is available on request.

Certificate

Acoustic Rated insulated roller shutter (Rw=43 dB)
Certificate No : BLX-R-AI-50 dated 04.01.2021

Ideal Uses

Loading bays, warehouses, factories, hospitals, large commercial buildings, boiler and turbine halls, airports, canteens, restaurants, recording and tv studios, exhibition & concert halls, cultural centers, opera houses, ballrooms, other areas where a high level of security is required as well as a high degree of insulation.

Performance Characteristics:

Sound reduction index Rw (C; Ctr)= 43 (-3 ; -8) dB according to EN ISO 717-1 :2013
Resistance to Fire : EN 1634-1:2014 + A1 :2008, rated E240
Classified according to EN 13501-2 :2016
Extended application of test results according to EN 15269-10:2011

Accreditations

EN ISO 10140-2:2013 – Measurements of Airborne Sound Insulation
EN 1634-1:2014+A1:2018 Fire resistance

**Technical support will be provided to the
construction site after order confirmation.**

Maximum Sizes
12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

SOUND PROOF ACOUSTIC ROLLER SHUTTER

NS100

57 dB 

NOVODOOR is a Turkey based designer and manufacturer of soundproof acoustic door systems. We offer a wide range of innovative commercial soundproof door solutions offering sound reduction levels of up to Rw57dB, all third-party tested and approved. NOVODOOR acoustic roller shutter doors have been developed for use in a multitude of environments with a wide range of domestic, industrial, and commercial applications and in sound sensitive environments where the objective is either to keep sound in or keep it out.

Consisting of two shutters (acoustic roller shutter*double-skinned 100mm steel flat slat + EI120 fire rated roller shutter* double-walled 170mm flat slat). The combined special two roller shutters provide a successful sound reduction level up to RW57dB. An emergency hand chain can be provided in the event of electrical or mechanical failure. The shutter operation is available with an extensive range of control options.

These doors are perfect for external apertures like the power stations for industrial use and great internal separators for domestic and commercial use they work as sound-break between the two areas such as exhibition halls. Moreover, these doors which operate electrically or manually and can be tailored to meet your size requirements, offer the benefits of security and protection from the elements. Acoustic roller shutters act as weatherproof and secure closures that provides high thermal as well as acoustic insulation.

Approved sound insulation (RW57dB) with low space requirements and robust roller shutter door technique. Our acoustic roller shutter and fire rated roller shutter can be used like a normal electrically operated rolling door. Polyester powder coat in a range of standard RAL colors is available on request.

Certificate

Acoustic Rated insulated roller shutter (Rw=57 dB)
Certificate No : BLX-R-AI-51 dated 04.01.2021

Ideal Uses

Loading bays, warehouses, factories, hospitals, large commercial buildings, boiler and turbine halls, airports, canteens, restaurants, recording and tv studios, exhibition & concert halls, cultural centers, opera houses, ballrooms, other areas where a high level of security is required as well as a high degree of insulation.

Performance Characteristics:

Sound reduction index Rw (C; Ctr)= 57 (-3 ; -10) dB EN ISO 717-1 :2013
Resistance to Fire : EN 1634-1:2014 + A1 :2008, rated EI120
Classified according to EN 13501-2 :2016
Extended application of test results according to EN 15269-10:2011

Accreditations

EN ISO 10140-2:2013 – Measurements of Airborne Sound Insulation
EN 1634-1:2014+A1:2018 Fire resistance

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

Technical support will be provided to the
construction site after order confirmation.



WIND LOAD RESISTANT ROLLER SHUTTER

NS100

NOVODOOR is a Turkey based designer and manufacturer of wind load resistant roller door systems. In environments where wind is a constant issue is a concern, we are manufacturing the wind resistant shutter doors prevent damage by withstanding gale force winds of up to Class 5, all third-party tested and approved. It is suitable for use in a wide range of domestic, industrial, and commercial applications. Selecting the correct shutter is dependent on wind exposure and shutter opening sizes.

NOVODOOR NS100 model of wind resistant roller shutter (Class5) is a rigid and sturdy design that stands strong in high winds. Shutters are insulated to increase the thermal value and save energy costs. Wind resistant insulated roller shutter is manufactured using double-skinned 100mm steel flat slat with polyurethane foam insulating foam core or rock wool. The reinforced part with NS100 profiles provides the high wind load resistance of curtain which also add benefit of enhancing security.

An emergency hand chain can be provided in the event of electrical or mechanical failure. Wind resistant insulated roller shutter operation is available with an extensive range of control options. Polyester powder coat in a range of standard RAL colors is available on request. Wind resistant roller shutter is suitable for both inside and outside special applications where there is a risk of high winds.

Certificate

Certificate No: 020.1657.1 dated 10.11.2021

Ideal Uses

Loading bays, warehouses, factories, hospitals, large commercial buildings, boiler and turbine halls, airports, canteens, restaurants, recording and tv studios, exhibition & concert halls, cultural centers, opera houses, ballrooms, other areas where a high level of security is required as well as a high degree of insulation.

Performance Characteristics:

Resistance to Wind Load : Class 5 according to EN 12424 :2000
(complete door for dimension = 2900x3600 mm)

Accreditations

EN 12444 :2000 – Industrial, commercial and garage doors and gates-resistance to wind load Test method

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

Technical support will be provided to the construction site after order confirmation.



TERMAL - INSULATED ROLLER SHUTTER

NS90



U = 4.8 W (m².K) ⓘ

NOVODOOR is a Turkey based designer and manufacturer of high performance thermal insulated roller door systems. We are manufacturing a wide range of innovative commercial, domestic, industrial thermal insulated doors offering heat transmission U-value levels of up to 5,2 W (m².K), all third-party tested and approved.

NOVODOOR NS90 model of insulated roller shutter (4,8 W (m².K) is our most impressive product moving almost silently and doing away with the old rattling noises that roller shutters traditionally make. Thermal insulated roller shutter is manufactured using double-skinned 96mm curved steel slat with polyurethane foam insulating foam core. An emergency hand chain can be provided in the event of electrical or mechanical failure. The insulated shutter operation is available with an extensive range of control options.

This shutter will considerably reduce heat loss and noise pollution as well as saving on energy costs when compared against its standard steel and aluminum alternative. Our thermal roller shutter can be used like a normal electrically operated rolling door. Polyester powder coat in a range of standard RAL colors is available on request. Thermal roller shutter is suitable for both inside and outside special applications able to maintain high thermal insulation and soundproofing.

Certificate

Certificate no: 010-044426 dated 17.08.2021

Performance Characteristics:

Heat transmission : U-value 4,8 W (m².K) according to EN ISO 12428:2013 (complete door for dimension = 3000x4000mm)

Accreditations

EN ISO 10211: 2017 – Thermal Bridges in building Construction

Ideal Uses

Loading bays, warehouses, factories, hospitals, large commercial buildings, boiler and turbine halls, airports, canteens, restaurants, recording and tv studios, warehouses, factories, shop fronts, areas exposed to high wind loading bays, garage doors, other areas where a high level of security is required as well as a high degree of insulation.

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

Technical support will be provided to the construction site after order confirmation.





TERMAL - INSULATED ROLLER SHUTTER

NS100

U = 5.2 W (m².K) (m)

NOVODOOR is a Turkey based designer and manufacturer of high performance thermal insulated roller door systems. We are manufacturing a wide range of innovative commercial, domestic, industrial thermal insulated doors offering heat transmission U-value levels of up to 5,2 W (m².K), all third-party tested and approved.

NOVODOOR NS100 model of insulated roller shutter (5,2 W (m².K) is our most impressive product combines a high level of security alongside great insulation to provide you with the perfect fit on various applications. Thermal insulated roller shutter is manufactured using double-skinned 100mm steel flat slat with polyurethane foam insulating foam core. An emergency hand chain can be provided in the event of electrical or mechanical failure. The insulated shutter operation is available with an extensive range of control options.

This shutter will considerably reduce heat loss and noise pollution as well saving on energy costs when compared against its standard steel and aluminum alternative. Our thermal roller shutter can be used like a normal electrically operated rolling door. Polyester powder coat in a range of standard RAL colors is available on request. Thermal roller shutter is suitable for both inside and outside special applications able to maintain high thermal insulation and soundproofing.

Certificate

Certificate no: 010-043988 dated 21.04.2021

Performance Characteristics:

Heat transmission : U-value 5,2 W (m².K) according to EN ISO 12428:2013 (complete door for dimension = 3000x4000mm)

Accreditations

EN ISO 10211: 2017– Thermal Bridges in building Construction

Ideal Uses

Loading bays, warehouses, factories, hospitals, large commercial buildings, boiler and turbine halls, airports, canteens, restaurants, recording and tv studios, warehouses, factories, shop fronts, areas exposed to high wind loading bays, garage doors, other areas where a high level of security is required as well as a high degree of insulation.

Technical support will be provided to the construction site after order confirmation.

Maximum Sizes

12,000 mm wide x 8,000 mm high

(Please contact us to discuss if there is a requirement beyond these dimensions)

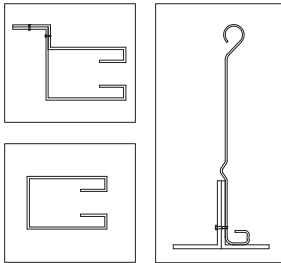
FIRE RESISTANT ROLLER SHUTTER DETAILS

NS80



E240

Profile/curtain made of galvanized interlocking roll-formed steel, single-skinned 80 mm curved slat, sheet thickness from 0.80 mm to 1.20 mm with galvanized end locks riveted to the slats maintain profile/curtain alignment and prevent wear.



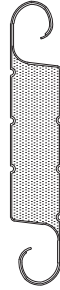
Side Guides

Rails made of galvanized steel profile, 100x70 mm dimension and 3.00 mm thickness made by press break bending method, fixing to face of wall and between Jamb's (U type and Z type) based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter.

Bottom Rail

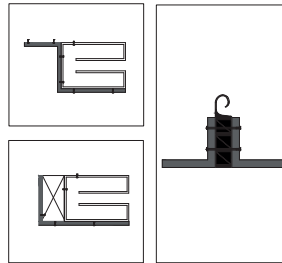
Made of galvanized steel profile with strengthened 2 pieces L -shape (40x80 mm dimension and 3.00 mm thickness) made by press break bending method.

NS100



E240

Profile/curtain made of galvanized interlocking roll-formed steel, double-skinned 100 mm flat slat, sheet thickness 2.00 mm with galvanized steel, filled with rock wool to provide heat, sound and fire insulation with end locks riveted to the slats maintain profile/curtain alignment and prevent wear.



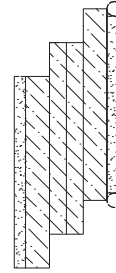
Side Guides

Rails made of galvanized steel profile, 100x70 mm dimension and 3.00 mm thickness made by press break bending method, fixing to face of wall and between Jamb's (U type and Z type) based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter.

Bottom Rail

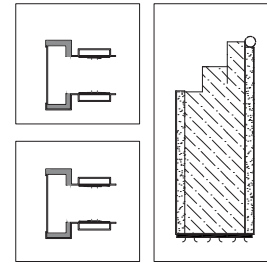
Made of galvanized steel profile with strengthened 2 pieces L -shape (40x80 mm dimension and 3.00 mm thickness) made by press break bending method.

NS170



EI120

Profile/curtain made of galvanized interlocking roll-formed steel, double-walled 170 mm flat slat which made by press break bending method. Sheet thickness 100 mm with galvanized steel, filled with board and ceramic wool to provide heat, sound and fire insulation with end locks riveted to the slats maintain profile/curtain alignment and prevent wear.



Side Guides

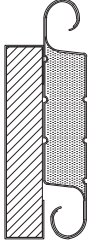
Rails made of galvanized steel profile, 200x200 mm dimension and 3.00 mm thickness made by press break bending method, fixing to face of wall and between Jamb's U type based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter. There are also a 90 mm wide fire seal and acoustic seal inside side guide rails.

Bottom Rail

Made of galvanized steel profile with 100x230 mm dimension and 1.00 mm thickness made by press break bending method. It has a fire resistance board inside and equipped with a 90 mm wide fire seals and acoustic seals at the point of contact with the ground.

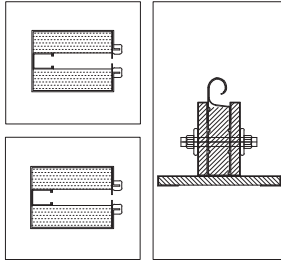
ACOUSTIC SOUND PROOF INSULATION ROLLER SHUTTER DETAILS

NS100



35dB

Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness from 140 mm to 2,00 mm, 100 mm flat slat with infilled special high performance insulation sound barrier materials.



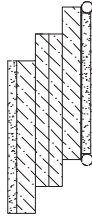
Side Guides

Made of galvanized steel U type profiles, 150x200mm dimension and 3,00mm thickness made by press break bending method and have an acoustic sound barrier and a 10,00mm thickness bristle brush for quiet movement and less vibration at the both sides.

Bottom Rail

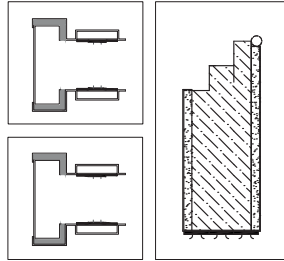
Bottom rail made of galvanized steel profile, have an acoustic sound barrier both inside and at the point of contact with the ground.

NS170



38dB

Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness from 140 mm to 2,00 mm, 100 mm flat slat with infilled special high performance insulation sound barrier materials.



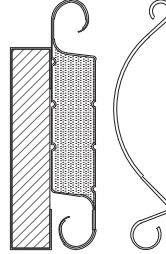
Side Guides

Made of galvanized steel U type profiles, 150x200mm dimension and 3,00mm thickness made by press break bending method and have an acoustic sound barrier and a 10,00mm thickness bristle brush for quiet movement and less vibration at the both sides.

Bottom Rail

Bottom rail made of galvanized steel profile, have an acoustic sound barrier both inside and at the point of contact with the ground.

NS100-NS80

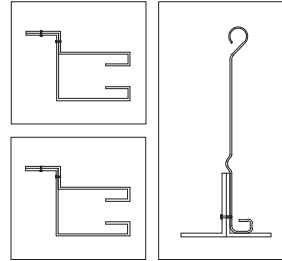


43dB

Consisting of two shutters

***Acoustic Roller Shutter:** Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness from 140 mm to 2,00 mm, 100 mm flat slat with infilled special high performance insulation sound barrier materials.

***E240 Fire Rated Roller Shutter:** Profile/curtain made of galvanized interlocking roll-formed steel, single-skinned 80mm curved slat, sheet thickness 1,00 mm with galvanized steel end locks riveted to the slats maintain profile/curtain alignment and prevent wear.



Side Guides

Acoustic Roller Shutter: Side guides made of galvanized steel U type profiles, 150x200mm dimension and 3,00mm thickness made by press break bending method and have an acoustic sound barrier and a 10,00mm thickness bristle brush for quiet movement and less vibration at the both sides.

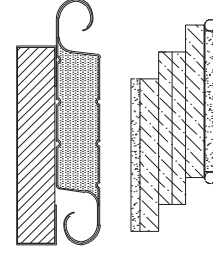
E240 Fire Rated Roller Shutter: Side guides rails made of galvanized steel U type profiles, 100x70x3mm thickness made by press break bending method. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter.

Bottom Rail

Acoustic Roller Shutter: Bottom rail made of galvanized steel profile, have an acoustic sound barrier both inside and at the point of contact with the ground.

E240 Fire Rated Roller Shutter: Bottom rail made of galvanized steel profile, 120x80mm dimension, 3,00mm thickness with strengthened T-shape.

NS100-NS170

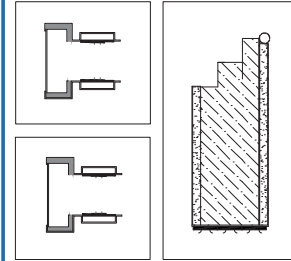


57dB

Consisting of two shutters

***Acoustic Roller Shutter:** Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness from 140 mm to 2,00 mm, 100 mm flat slat with infilled special high performance insulation sound barrier materials.

***EI120 Fire Rated Roller Shutter:** Profile/curtain made of galvanized interlocking roll-formed steel, double-walled 170mm flat slat which made by press break bending method. Sheet thickness 100 mm with galvanized steel, filled with board and ceramic wool to provide heat, sound and fire insulation with end locks riveted to the slats maintain profile /curtain alignment and prevent wear.



Side Guides

Acoustic Roller Shutter: Side guides made of galvanized steel U type profiles, 150x200mm dimension and 3,00mm thickness made by press break bending method and have an acoustic sound barrier and a 10,00mm thickness bristle brush for quiet movement and less vibration at the both sides.

EI120 Fire Rated Roller Shutter: Side guides rails made of galvanized steel profile, 200x200x3mm thickness made by press break bending method, fixing to face of wall and between Jamb's U type based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter. There are also a 90mm wide fire seal and acoustic seal inside side guide rails.

Bottom Rail

Acoustic Roller Shutter: Bottom rail made of galvanized steel profile, have an acoustic sound barrier both inside and at the point of contact with the ground.

EI120 Fire Rated Roller Shutter: Bottom rail made of galvanized steel profile with 100x230mm dimension and 1,00mm thickness made by press break bending method. It has a fire resistance board inside and equipped with a 90mm wide fire seals and acoustic seals at the point of contact with the ground.

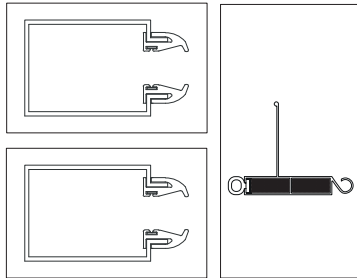
THERMAL INSULATED / WIND RESISTANT ROLLER SHUTTER DETAILS

NS90



$U = 4.8 \text{ W (m}^2\cdot\text{K)}$ 

Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness 0,90 mm (0,45 + 0,45 mm), 96 mm curve slat with polyurethane foam insulating core.



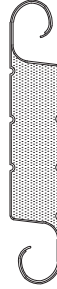
Side Guides

Rails made of galvanized steel profile, 120x70 mm dimension and 2.00 mm thickness made by press break bending method, fixing to face of wall and between jambs U type based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter.

Bottom Rail

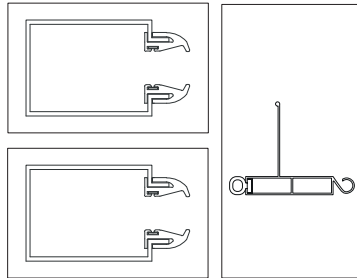
Bottom rail made of extruded aluminium deflection-resistant bottom profile with cornerpiece part. Profile/curtain is filled with standard or high density polyurethane foam to provide heat insulation. The flexible and elastic whether rubber seal for optimal compensation of floor irregularities.

NS100



$U = 5.2 \text{ W (m}^2\cdot\text{K)}$ 

Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness 2,00 mm (1,00 + 1,00 mm), 100 mm flat slat with polyurethane foam insulating core.



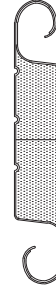
Side Guides

Rails made of galvanized steel profile, 120x70 mm dimension and 2.00 mm thickness made by press break bending method, fixing to face of wall and between jambs U type based on construction structure. Side guides can be mounted to the interior or exterior side of the wall or the jamb. Side guide assemblies bolt to fixing angles or frame steel and support the entire weight of the shutter.

Bottom Rail

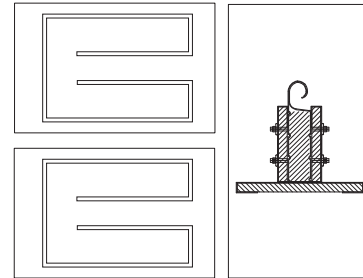
Bottom rail made of extruded aluminium deflection-resistant bottom profile with cornerpiece part. The flexible and elastic whether rubber seal for optimal compensation of floor irregularities.

NS100



CLASS 5 

Profiles/curtains made of galvanized interlocking roll-formed steel, double-skinned, sheet thickness from 1,40 mm to 2.00 mm, 100 mm flat slat with infilled special high performance insulation sound barrier materials.



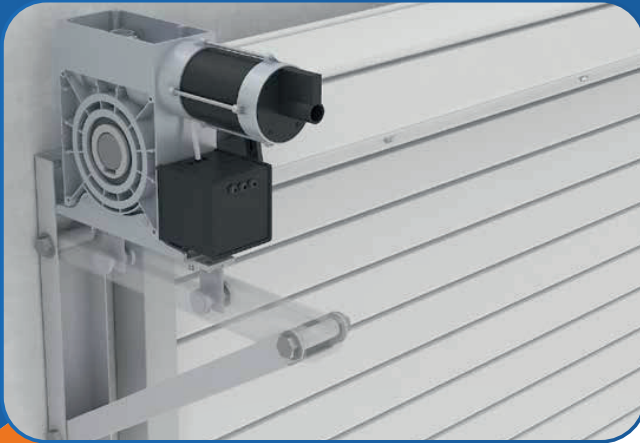
Side Guides

Made of galvanized steel G type profiles, 175x125mm dimension and 5.00mm thickness made by press break bending method.

Bottom Rail

Made of galvanized steel profile with strengthened 2 pieces L-shape (66x70 mm dimension and 10.00 mm thickness) made by press break bending method.

ROLLER SHUTTER OPERATOR



Electric Drive 3Ph 380V / 50 Hz, protection class IP54, directly coupled to the winding shaft, thermal motor protection in the motor windings, upper and lower limit switch for the control and main current circuit. Emergency hand crank or hand chain with safety contact for manual closing in case of power failure. Wide range of drive torques is available based on curtain weight.

Drive comes with push button control device. Usually connect to a fire control panel and integrated with the building alarm system, so that the shutter descends under control of the motor in the event of a fire. Also specially designed in accordance with smart building automation systems.

Low maintenance completely sealed off, encased safety worm-drive, attached directly to the steel shaft of the drum, with clearly reduced installation and maintenance effort compared to other alternatives.

Deadmans Control

The simplest control is what is commonly referred to as the Deadman's control. The door will open after pressing the "Up" push button once. The "Down" push button must be constantly pressed to close the door until the door has completely closed. If your finger is removed at any time during closing, the door will stop.

Impulse Control

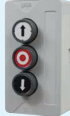
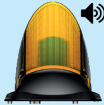
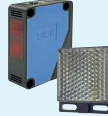
The door will open fully after pressing the "Up" push button and the door will again close fully when the "Down" push button is pressed to activate impulse control. Automatic closing after an adjustable time delay setting. Automatic closing after an adjustable time delay setting is only possible in combination with a safety edge and safety beam protection in the doorway.

Expansions

- Remote control (up to 99 channels)
- Traffic regulation
- Interlocking on both sides with another door(s)
- External operation components such as radar, key switch, induction loop, etc.



Available Controls and Accesories (at additional cost)

	Basic Automatic Control Box <i>For Normal Shutter</i>		Basic Automatic Control Box <i>For Fire Shutter</i>		1-Button Input Unite
	2-Button Input Unite <i>Up - Down</i>		3- Button Input Unite With Stop Function <i>Up-Stop-Down</i>		3- Button Input Unite With Stop Function + Key Switch, <i>Up-Stop-Down</i>
	Wall Brackets Transmitter		Push Button (Standard)		Key Switch, Two-Side Contact <i>Recessed & Surfaced</i>
	Crank Handle		Manuel Safety Brake Sand Control Box		Side Lock With Keys
	Radar Motion Detector		Flashing light		Traffic light <i>Red/green</i>
	Photocell Light Curtain		Photocell Safety Beam Sensor		Safety photocell <i>with reflector</i>
	Hand Transmitters Remote Controller <i>2 or 4 Channels</i>		Receiver of Remote Controller		Functional Motor Control Card
	Digital Access Control System		Vehicle Detection System		Wireless or Wired Radio Code Switch
	Safety Catch Device for Roller Shutter Drives		No Touch Hand Sensor		Reader and Touch-Pasword Panel
	Funchtional UPS		Pull Switches Construction		Induction loop detector <i>In separate housing</i>

REFERENCES

REFERENCES



ISTANBUL AIRPORT



ICE SKATING ASTANA



MUSCAT AIRPORT



IKEA ISTANBUL

REFERENCES



DOHA AIRPORT WAREHOUSE



ESENTAI TOWERS



AKM PROJECT



GALATAPORT ISTANBUL







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Door Solutions

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