

tma

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MONOLITHIC TNA SYSTEM

**TECHNICAL
SPECIFICATIONS**

SPECIFICATIONS ON METALLIC STRUCTURE

Internal lowered flat ceiling type "TNA System" with double metal frame and pre-finished acoustic panel in rock wool, finished thickness 40 mm, with fire reaction class A2-s1.do as follows:

Metal frame with perimeter U-shaped guide profiles in galvanized steel thickness. 6/10 mm of the 28/30 mm section, rigidly locked to the perimeter structures with suitable fixings placed at a center distance not exceeding 600 mm, and horizontal load-bearing profiles a "C" in galvanized steel, 6/10 mm thick of the 49x27 mm, forming a primary frame, resting on the perimeter "U" guide, at a center distance of 750 mm by means of special fixings and adjustable hooks placed at a center distance of 600 mm and horizontal "C" shaped load-bearing profiles in galvanized steel 6/10 mm thick section of 49x27 mm forming secondary frame, inserted in the perimeter "U" guides with center distance of 400 mm arranged orthogonal with respect to the primary frame, and rigidly fixed to it by means of special orthogonal hooks.

Cladding with pre-shaved TNA rock wool panels based on glass foam, approx. 37 mm fixed to the metal frame with phosphated self-tapping screws of the TTPC type with 250 mm washer.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

Subsequent grouting of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "joint filler".

Two-coat final finish with marble-based coating with variable grain size from 0.4 to 0.8 mm

Color of your choice

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha w 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

SPECIFICATIONS WITH DIRECT BONDING TO THE FLOOR

Internal lowered flat ceiling type "TNA System" with direct gluing to the ceiling / wall with pre-finished rock wool acoustic panel, finished thickness 40 mm, with fire reaction class A2-s1.do as follows:

Direct bonding of pre-shaved glass foam-based TNA rock wool panels with a thickness of approx. 37 mm fixed to the ceiling / wall with dowels suitable for the support and 250 mm washer

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

Subsequent grouting of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "joint filler".

Two-coat final finish with marble-based coating with variable grain size from 0.4 to 0.8 mm

Color of your choice

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha w 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

TNAD₁₁₀

BONDING TO FLOOR

Interior floor covering with sound-absorbing and insulating surface of the "TNAD₁₁₀ Monolithic" system by gluing and fixing pre-finished acoustic panels in rock wool 40 mm thick and with fire reaction class A2-s1.do as follows:

Cladding with TNA rock wool panels pre-shaved with glass foam-based plaster, thickness 6/7 mm, applied in the factory with a total thickness of approx. 37 mm, fixed to the existing floor by means of adhesive glue points such as TNA adhesive and mechanical fixings suitable for the support with metal washer diameter 250 mm at least two each panel.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Minimum thickness = 50/60 mm (glue + panels)

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm
Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated based on the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

(SQM. 000.00)

PARTIAL # € 0.000,00 #

IN WORK € / sqm. 000.00 =

INCREASE (Biotech treatment) € / sqm. 000.00 =

TNAD₁₁₁

FALSE CEILING SINGLE FRAME

Internal lowered false ceiling sound-absorbing and insulating system "TNAD₁₁₁ Monolithic" with single metal frame and pre-finished acoustic panel in rock wool 40 mm thick and with fire reaction class A2-s1.do as follows:

Metal frame with perimeter U-shaped guide profiles in galvanized steel thickness. 6/10 mm of the 28/30 mm section, rigidly locked_ to the perimeter structures with suitable fixings placed at a center distance not exceeding 600 m / m, and horizontal load-bearing profiles a_ "C" in galvanized steel, 6/10 mm thick of the 49x27 mm, forming the primary frame, inserted the perimeter guide to "U", at a center distance of 500 mm by means of special fixings and adjustable hooks placed at a center distance of 900 mm.

Cladding with pre-shaved TNA rock wool panels with glass foam-based plaster, thickness 6/7 mm, applied in the factory, with a total thickness of approx. 37 mm, fixed to the metal frame with phosphated self-tapping screws of the TTPC type and flat washers with a diameter of 25 mm.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm

Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated on the basis of the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

(SQM. 000.00)

PARTIAL # € 0.000,00 #

ON SITE € / sqm. 000.00 =

INCREASE (Biotech treatment) € / sqm. 000.00 =

TNAD₁₁₂

DOUBLE FRAMED CEILING

Internal lowered false ceiling sound-absorbing and insulating system "TNAD₁₁₂ Monolithic" with double metal frame and pre-finished acoustic panel in rock wool 40 mm thick and with fire reaction class A2-s1.do as follows:

Metal frame with perimeter U-shaped guide profiles in galvanized steel thickness. 6/10 mm of the 28/30 mm section, rigidly locked_ to the perimeter structures with suitable fixings placed at a center distance not exceeding 600 m / m, and horizontal load-bearing profiles a_ "C" in galvanized steel, 6/10 mm thick of the 49x27 mm, forming a primary frame, resting on the perimeter "U" guide, at a center distance of 750 mm by means of special fixings and adjustable hooks placed at a center distance of 600 mm and horizontal "C" shaped load-bearing profiles in galvanized steel 6/10 mm thick section of 49x27 mm forming secondary frame, inserted in the perimeter "U" guides with center distance of 400 mm arranged orthogonal with respect to the primary frame, and rigidly fixed to it by means of special orthogonal hooks.

Cladding with TNA rock wool panels pre-shaved with glass foam-based plaster, thickness 6/7 mm, applied in the factory with a total thickness of approx. 37 mm, fixed to the metal frame with phosphated self-tapping screws of the TTPC type and flat washers with a diameter of 25 mm.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm
Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated based on the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;
Thermal resistance = 0.038 W / mK;
Product composed of 80% recycled materials such as glass and ceramics;
Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;
(SQM. 000.00)

PARTIAL # € 0.000,00 #

IN WORK € / sqm. 000.00 =
INCREASE (Biotech treatment) € / sqm. 000.00 =

TNAD₁₁₄

DOUBLE FRAMED CEILING WITH SNAP CARRIER

Lowered internal false ceiling sound-absorbing and insulating system "TNAD₁₁₄ Monolithic" with double metal frame with snap bearing and pre-finished acoustic panel in rock wool 40 mm thick and with fire reaction class A2-s1.do as follows:

Perimeter guide profiles to "U" in galvanized steel thickness. 6/10 mm of the 28/30 mm section, rigidly locked to the perimeter structures with suitable fasteners placed at a distance between centers not exceeding 600 mm / m.

Primary frame with horizontal "U" snap-on load-bearing profiles in galvanized steel, 7/10 mm thick with a section of 40x28 mm, designed for snap-hooking of the secondary frame, resting on the "U" perimeter guide, with a center distance of 900 mm by means of special fixings and adjustable hooks placed at a center distance of 600 mm.

Secondary frame with horizontal "C" shaped load-bearing profiles in galvanized steel 6/10 mm thick with a section of 49x27 mm, snap-hooked to the primary frame and inserted in the perimeter "U" guides at a distance of 400 mm, arranged orthogonal to the to the primary warping.

Cladding with TNA rock wool panels pre-shaved with glass foam-based plaster, thickness 6/7 mm, applied in the factory with a total thickness of approx. 37 mm, fixed to the metal frame with phosphated self-tapping screws of the TTPC type and flat washers with a diameter of 25 mm.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm
Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated based on the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

(SQM. 000.00)

PARTIAL # € 0.000,00 #

IN WORK € / sqm. 000.00 =

INCREASE (Biotech treatment) € / sqm. 000.00 =

TNAD₁₂₀

BARREL CURVE

Internal Barrel Curved false ceiling with radius R sound-absorbing and insulating "TNA Monolithic" system with double metal frame and pre-finished acoustic panel in rock wool 40 mm thick and with fire reaction class A2-s1.do as follows:

Metal frame with flexible U-shaped perimeter guide profiles in galvanized steel thickness. 6/10 mm of the 28/30 mm section, rigidly locked to the perimeter structures with suitable fixings placed at a distance between centers not exceeding 200 mm / m, and horizontal load-bearing profiles a_ "C" in galvanized steel, 6/10 mm thick of the 49x27 mm, forming a primary frame, resting on the perimeter guide to "U", with a center distance of 800 mm by means of special fixings and adjustable hooks placed at a center distance of 600 mm and "C" shaped flexible horizontal load-bearing profiles in galvanized steel thickness 6 mm / 10 of the section of mm. 60x27 forming secondary frame, inserted in the perimeter "U" guides with center distance of 400 mm arranged orthogonal to the primary frame, and rigidly fixed to the same by means of special orthogonal hooks.

Cladding with TNA rock wool panels pre-shaved with glass foam-based plaster, thickness 6/7 mm, applied in the factory with a total thickness of approx. 37 mm, fixed to the metal frame with phosphated self-tapping screws of the TTPC type and flat washers with a diameter of 25 mm.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The width of the panels can be modulated according to the radius of curvature to be made, minimum dim. 150x1000 mm
The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm

Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated based on the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

(SQM. 000.00)

PARTIAL # € 0.000,00 #

IN WORK € / sqm. 000.00 =

INCREASE (Biotech treatment) € / sqm. 000.00 =

TNAW611

WALL BONDING

Interior sound-absorbing and insulating floor covering of the "TNAW611 Monolithic" system by gluing pre-finished acoustic panels in rock wool 40 mm thick and with fire reaction class A2-s1.do as follows:

Cladding with pre-shaved TNA rock wool panels with glass foam-based plaster, thickness 6/7 mm, applied in the factory, with a total thickness of approx. 37 mm, fixed to the existing walls by adhesive glue points such as TNA adhesive

Where necessary, we recommend to proceed with mechanical fixings n. 2 each panel.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Minimum thickness = 50/60 mm (glue + panels)

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm
Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated on the basis of the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

(SQM. 000.00)

PARTIAL # € 0.000,00 #

ON SITE € / sqm. 000.00 =

INCREASE (Biotech treatment) € / sqm. 000.00 =

TNAW623

COUNTERWALL SINGLE FRAME

Internal sound-absorbing and insulating counter-walls of the "TNAW623 Monolithic" system with single metal frame and pre-finished acoustic panel in 40 mm thick rock wool with fire reaction class A2-s1.do with a total thickness of mm. 90 (H. max. 3.50 ml) made as follows:

Metallic bearing frame in galvanized steel sheet "Z" 100/140 thickness 6/10 mm., Which are divided into horizontal guides on the floor and ceiling connected with vertical uprights placed at a maximum center distance of mm. 500

The "METALFRAME" profiles are suitable for mounting with phosphated self-tapping screws and will have overall dimensions of 49 mm for the uprights and 50 mm for the guides (UNI EN 14195).

The floor-ceiling guides and end uprights will be covered with anti-vibration tape such as closed cell polyethylene.

Cladding with TNA rock wool panels pre-shaved with glass foam-based plaster, thickness 6/7 mm, applied in the factory with a total thickness of approx. 37 mm, fixed to the metal frame with phosphated self-tapping screws of the TTPC type and flat washers with a diameter of 25 mm.

The panels are milled on four sides to insert and glue a blade made from magnesium oxide plates, guaranteeing planarity and mechanical continuity to the system.

The finishing of the vertical and horizontal flat joints and screw heads with a mixture based on cellular glass called "stucco for joints".

Two-coat colored finish in the mass with marble-based coating with variable grain size from 0.4 to 0.8 mm
Ulkerfarbe Biotech patented anti-bacterial ionizing-anti-mold sanitizing treatment with emission of negative ions into the air, purifies and neutralizes environments from pollution, smoke, odors, positive ions deriving from computers, telephones or electronic products.

The Biotech Ionizing treatment is certified to last over time and can be calibrated based on the surface, which can be measured with portable instruments.

Negative ion emission greater than or equal to 2000 / cm³ (Paid separately)

Panel weight = 11-12 Kg / m² approximately;

Thermal resistance = 0.038 W / mK;

Product composed of 80% recycled materials such as glass and ceramics;

Average absorption coefficient alpha W 0.90 according to ASTM C 423;

Reaction to fire class A2 S1 do;

(SQM. 000.00)

PARTIAL # € 0.000,00 #

IN WORK € / sqm. 000.00 =

INCREASE (Biotech treatment) € / sqm. 000.00 =




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