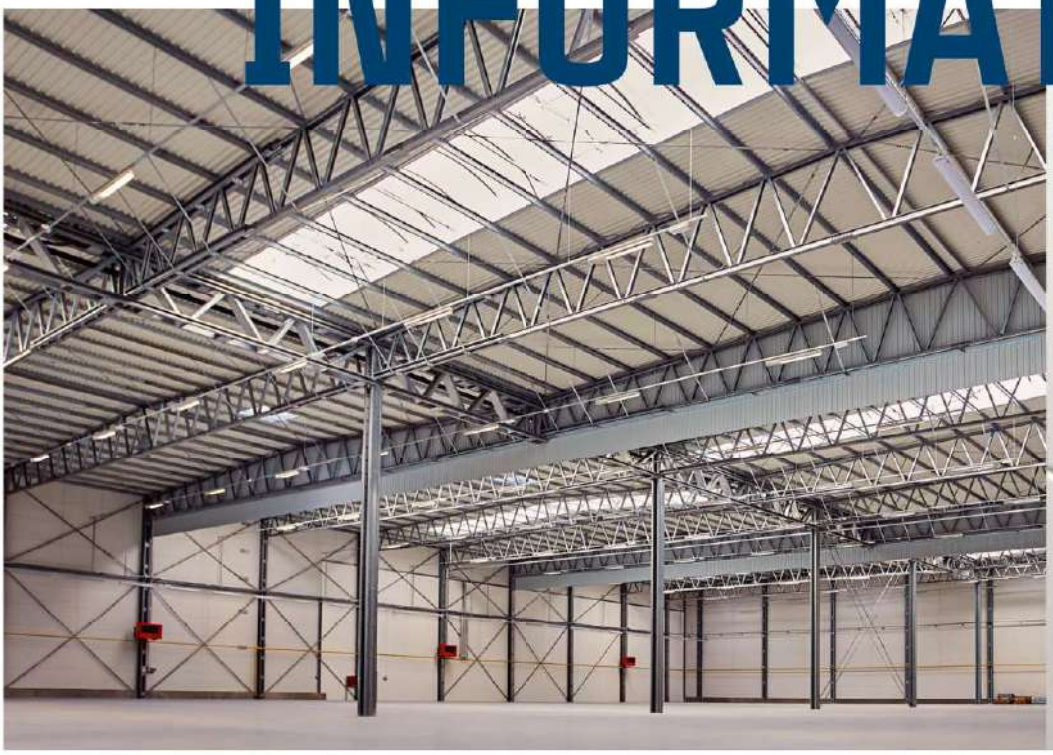
LLENTAB
MORE THAN STEEL BUILDINGS

DETAILED TECHNICAL INFORMATION



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LLENTAB STEEL BUILDINGS

LLENTAB steel constructions are designed from elements made from cold-bent profiles that are screwed together. The profiles are manufactured by means of continuous rolling or bending on press brakes. The elements are made of hot-dip zinc coated steel coils of high-strength steel. The individual pieces are joined with class 8.8 screws (most often M12 or M16).

LLENTAB manufactures all profiles from high-strength steel. Profiles with a material thickness of 1.5 to 7 mm are made from hot-dip zinc coated steel coils. Cold-rolled hot-dip zinc coated profiles guarantee long-term quality and low steel consumption. Profiles with material thickness up to 2 mm are protected by a layer of Z275 zinc (275 g/m²). From the thickness of 2.5 mm onwards, Z450 zinc coating (450 g/m²) is used as standard.

The basic shapes of LLENTAB profiles are as follows: **Z-profiles** (for roof purlins and wall purlins), **C-profiles** (for columns, trusses, frame parts), **H-profiles** (for upper and lower chords of truss structures). Mounting holes are pre-formed in all profiles during production.

The structures are designed as frames with a truss bar determining the shape of the roof. The columns are designed as segmented elements with frame connectors or as truss columns. The truss girders are assembled from C-profiles and H-profiles. From the structural perspective, the frames are designed as double-hinged or fixed, or as hinged roof trusses on columns that are fixed (screwed or welded) or restrained in foundation.

All structures are designed to satisfy specific client requirements (dimensions, cladding, loading, windows, doors, gates, etc.). LLENTAB uses a modular system of floor plan dimensions with a span of 300 mm. This span affects the follow-up secondary structures, accessories and standard details. We are open to tailor-made client requirements and designs.

The optimal layout of the frames and the design of the hall structure take into account loading, cladding types and specific hall structure requirements if any. **LLENTAB's technical department we will be happy to prepare basic construction drawings for you free of charge which may be used for the preparation of project documentation.**

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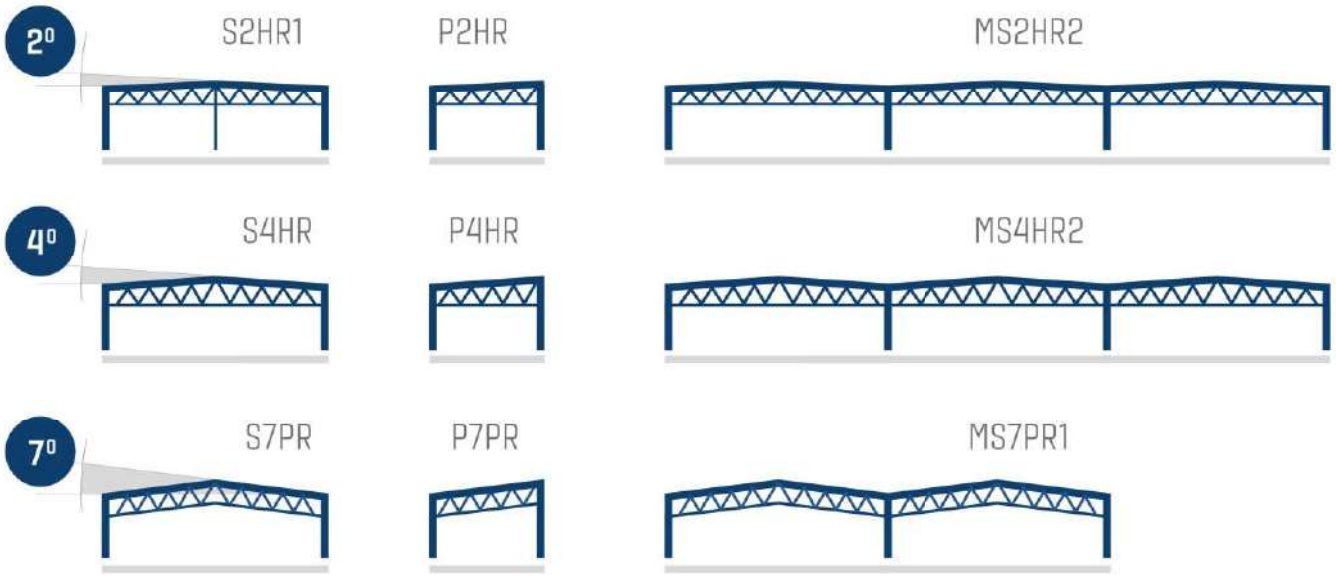
HALL TYPES



S 4 H R 2

ROOF TYPE

S – duo-pitched roof hall
P – mono-pitched roof hall
MS – multi-pitched roof hall

ROOF PITCH (pitch indicated in degrees from the horizontal plane)

1°	2°	3°	4°	6°	7°	11°	14°	17°	21°
1/40	1/32	1/20	1/16	1/10	1/8	3/16	1/4	5/16	3/8

BOTTOM CHORD PITCH (pitch indicated in degrees from the horizontal plane)

H – horizontal
P – perpendicular to top chord: 1°, 2°, 3°, 4°, 6°, 7°, 11°, 14°, 17°, 21°
/ bottom chord pitch: 4°, 6°, 7°, 11°, 14°, 17°

COLUMN TYPE (steel column made from two C-profiles)

R – steel built-up column
F – truss column

NUMBER OF INNER COLUMNS (not specified = no inner columns)

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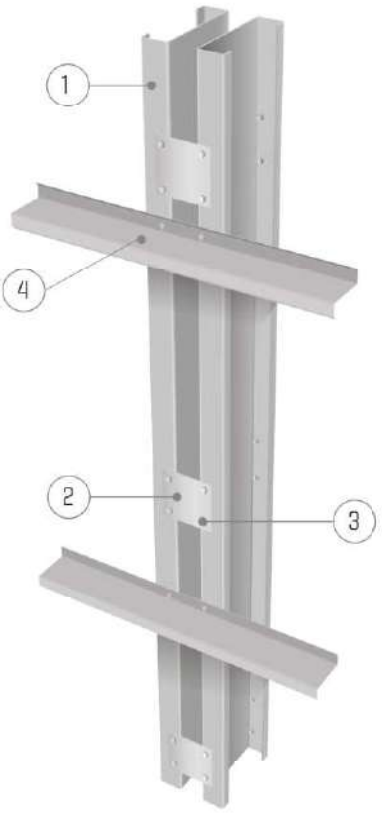
COLUMNS - STANDARD

2xC COLUMN

Column for standard load.

Battened cross-section made of two C-profiles

LLENTAB steel



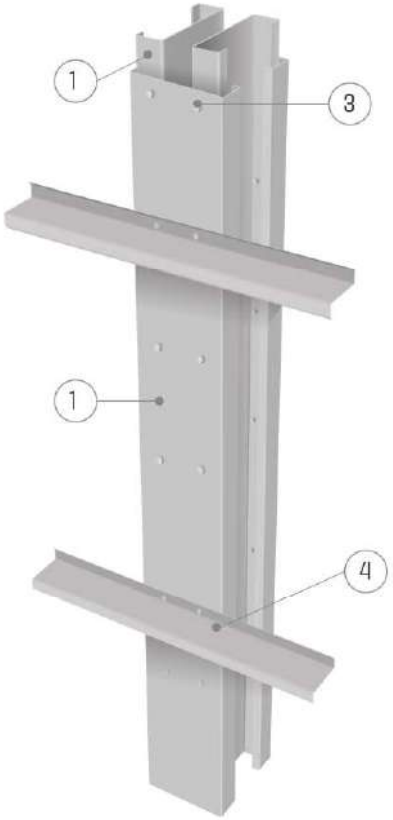
2xC170: thickness 3/4/5/6 mm
2xC250: thickness 3/4/5/6 mm
2xC300: thickness 5/6 mm
2xC360: thickness 4/5/6 mm
2xC380: thickness 6 mm

QUADRO (4xC)

Reinforced column for heavy load and high hall.

Closed assembly made of four separate C-profiles

LLENTAB steel



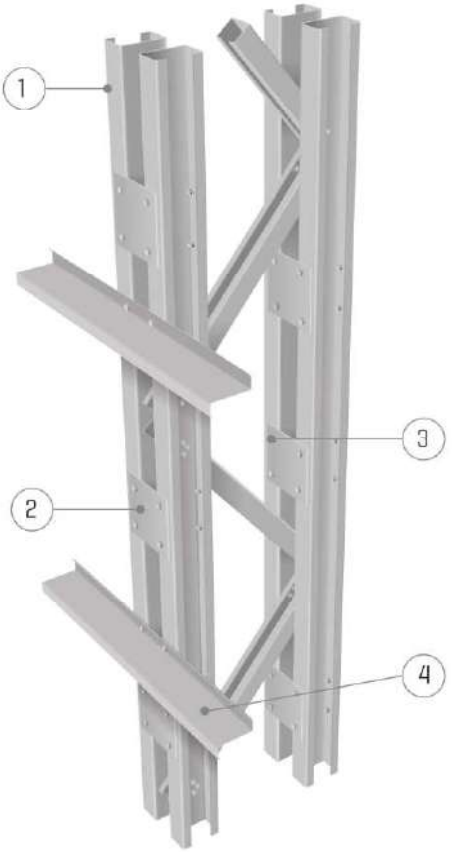
4xC360: thickness 4/5/6 mm

TRUSS

Reinforced column for very high hall.

2x2 C-profiles and diagonals (C-profiles)

LLENTAB steel



4xC170: thickness 3/4/5/6 mm
4xC250: thickness 3/4/5/6 mm
(+combination 170 mm a 250 mm)

1. C-profile, hot-dip zinc coating (450 g/m²), pre-formed holes
2. Steel batten, hot-dip zinc coating (450 g/m²), pre-formed holes
3. Galvanized, mounting screw class 8.8 with pad and nut

4. Wall purlin, hot-dip zinc coating (275g/m² or 450 g/m²), Z-profile

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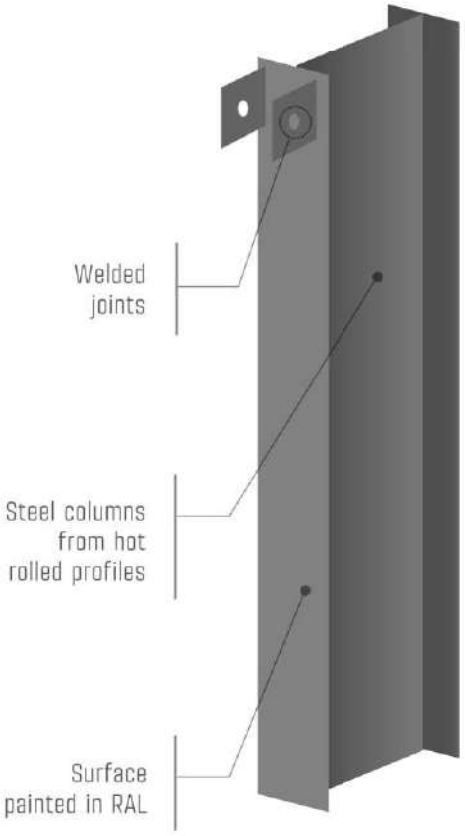
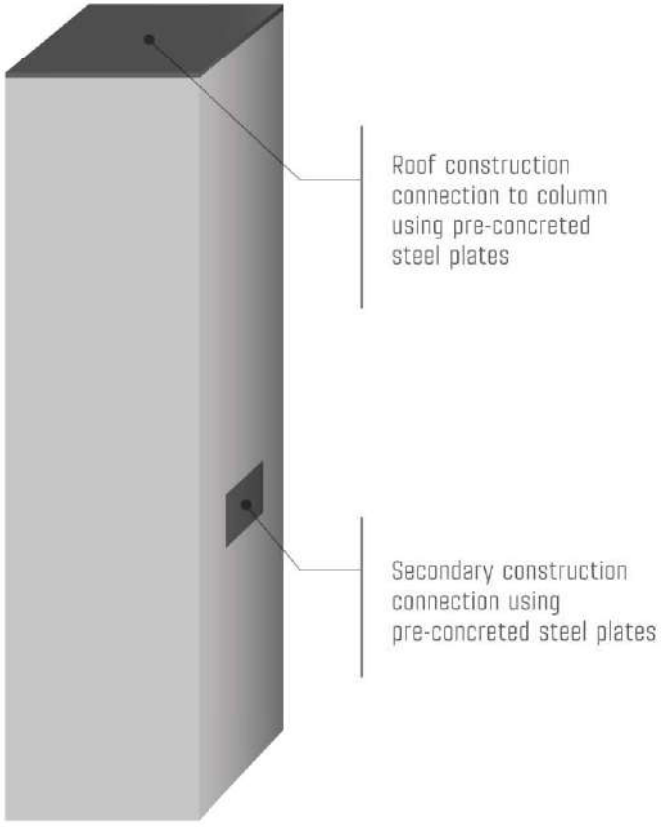
COLUMNS - VARIANTS

SIMPLE I/H COLUMN



Designed especially for halls with crane tracks

REINFORCED CONCRETE COLUMN



By request of the builder or depending on the project and other circumstances of the building

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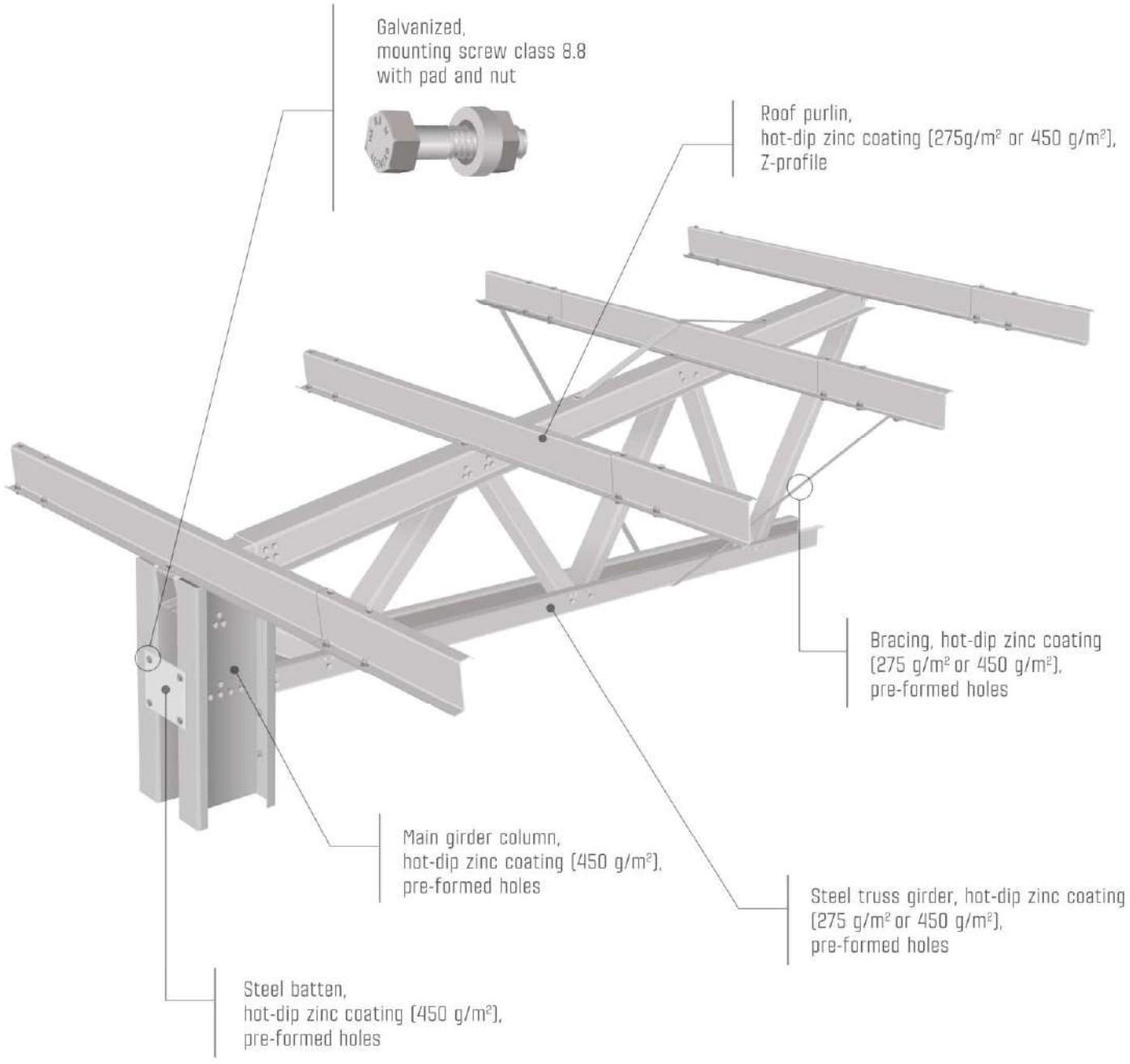
TRUSS GIRDER

Trusses are the primary supporting structure of the hall roof. The truss elements form the upper and lower chord, which are connected by diagonals. The pitch chords are most often made of "omega" shaped profiles or a pair of C-profiles. The diagonals are from one C-profile. The chords can be of different pitch. The pitch of the upper chord determines the resulting pitch of the roof.



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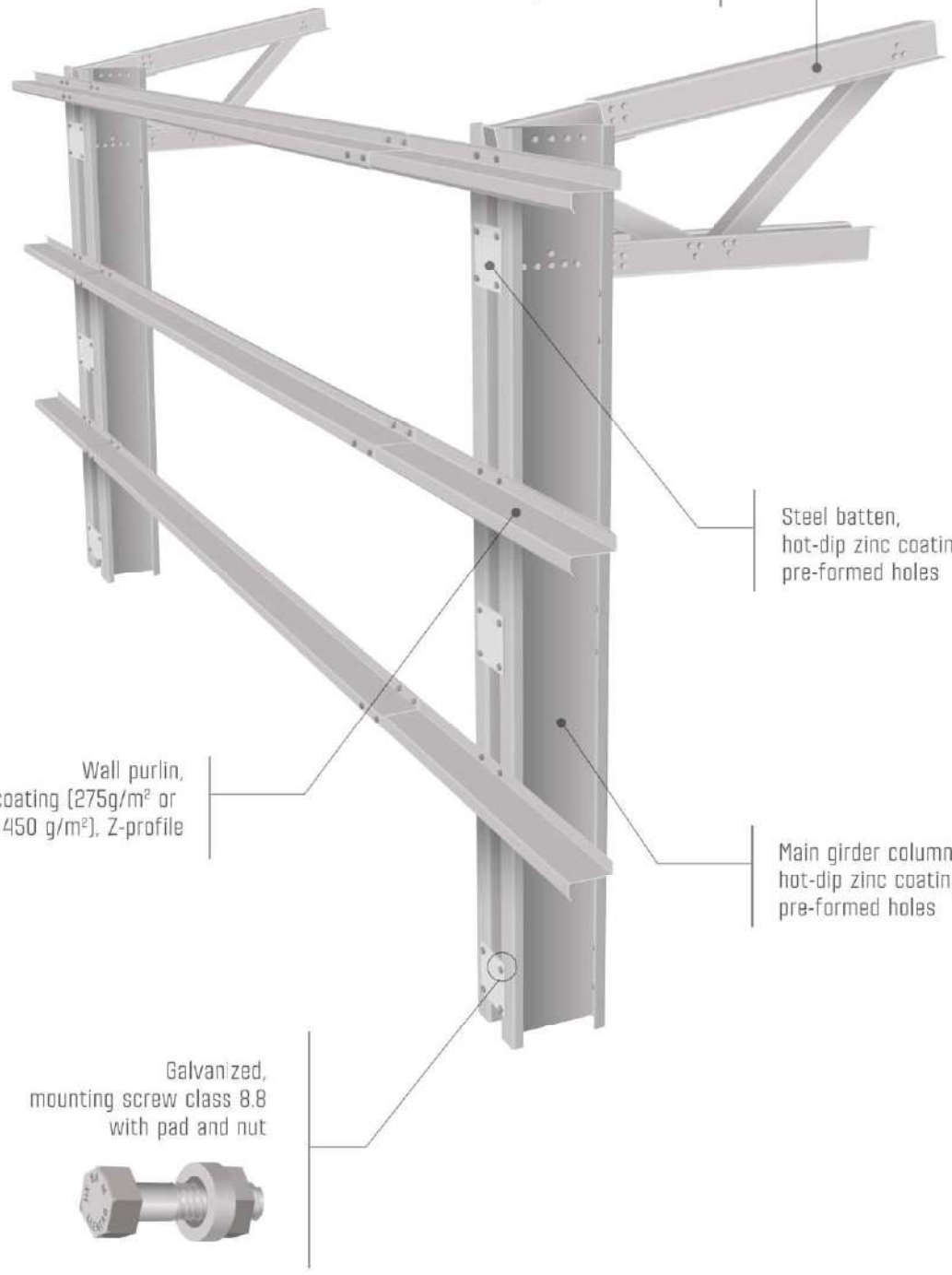
CZ0145 A.S.A. Úholičky

BUILDING SIZE	918 m²
CATEGORY	Storage building
INSULATION	No
ROOF SLOOPE	7°
HEIGHT	8.5 m
LENGHT	37.3 m
WIDTH	24.6 m
COUNTY	Czech Republic
CITY	Úholičky

WALL PURLINS

Wall purlins are a secondary supporting structure of the hall wall anchored to the columns. They are horizontal beams that transfer the horizontal wind load from the wall cladding of panels or plates. Wall purlins are usually designed as joined beams. The load from the actual weight of the cladding is transferred to the foundation or plinth sill. Wall purlins are most often made from Z- or C-profiles.



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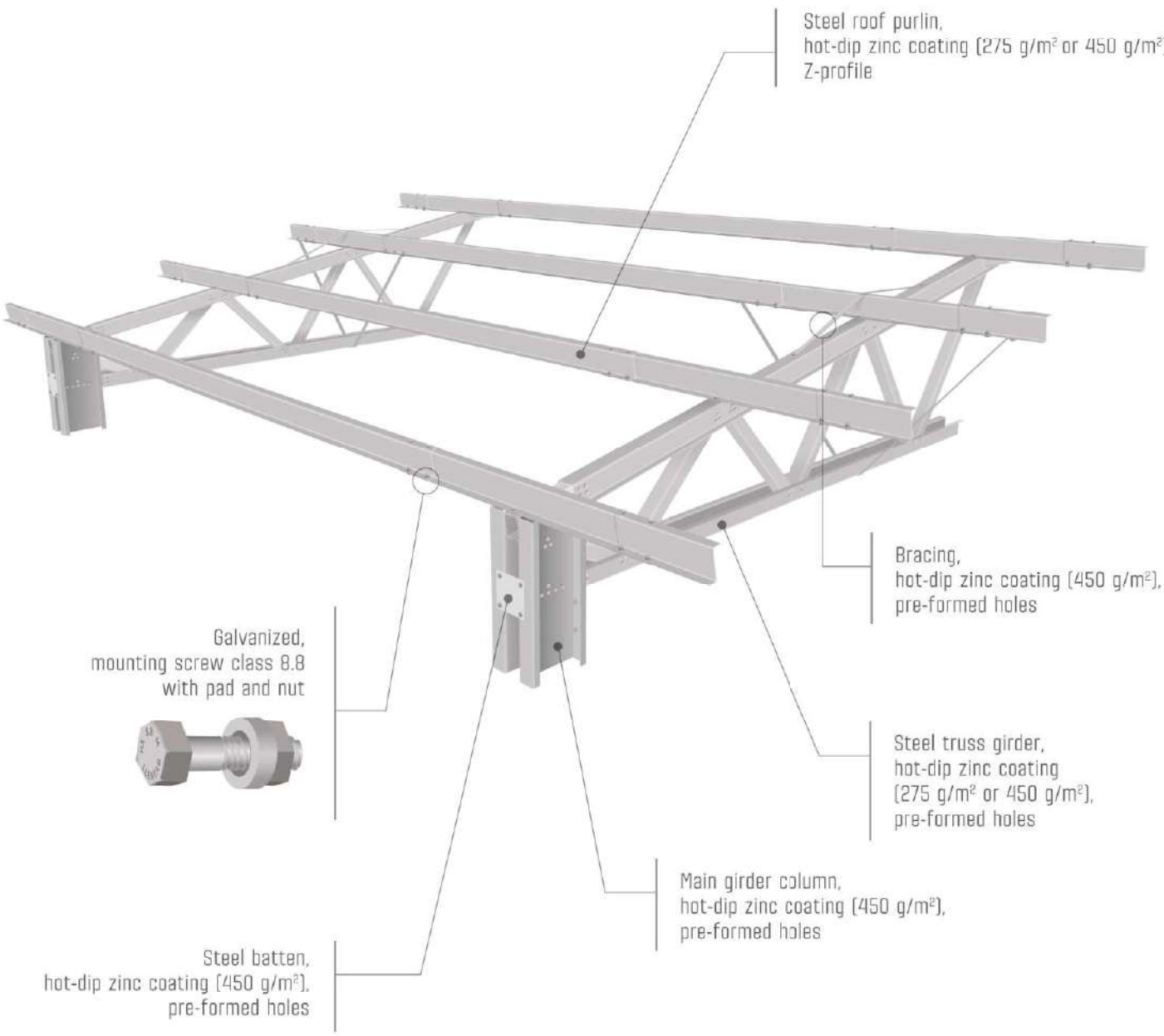
CZ0757 VONDRÁČEK

BUILDING SIZE	5 370 m²
CATEGORY	Storage building
INSULATION	Yes
ROOF SLOPE	4°
HEIGHT	8.8 m
LENGTH	157.0 m
WIDTH	34.2 m
COUNTRY	Czech Republic
CITY	Háje

ROOF PURLINS

Roof purlins are a secondary supporting structure of the hall roof anchored to the trusses. These profiles carry the vertical wind load from the roof cladding. Roof purlins are usually designed as continuous beams and are also part of the roof reinforcement and stabilize the upper girder chord against buckling. Z-profiles are most often used for the roof purlins.



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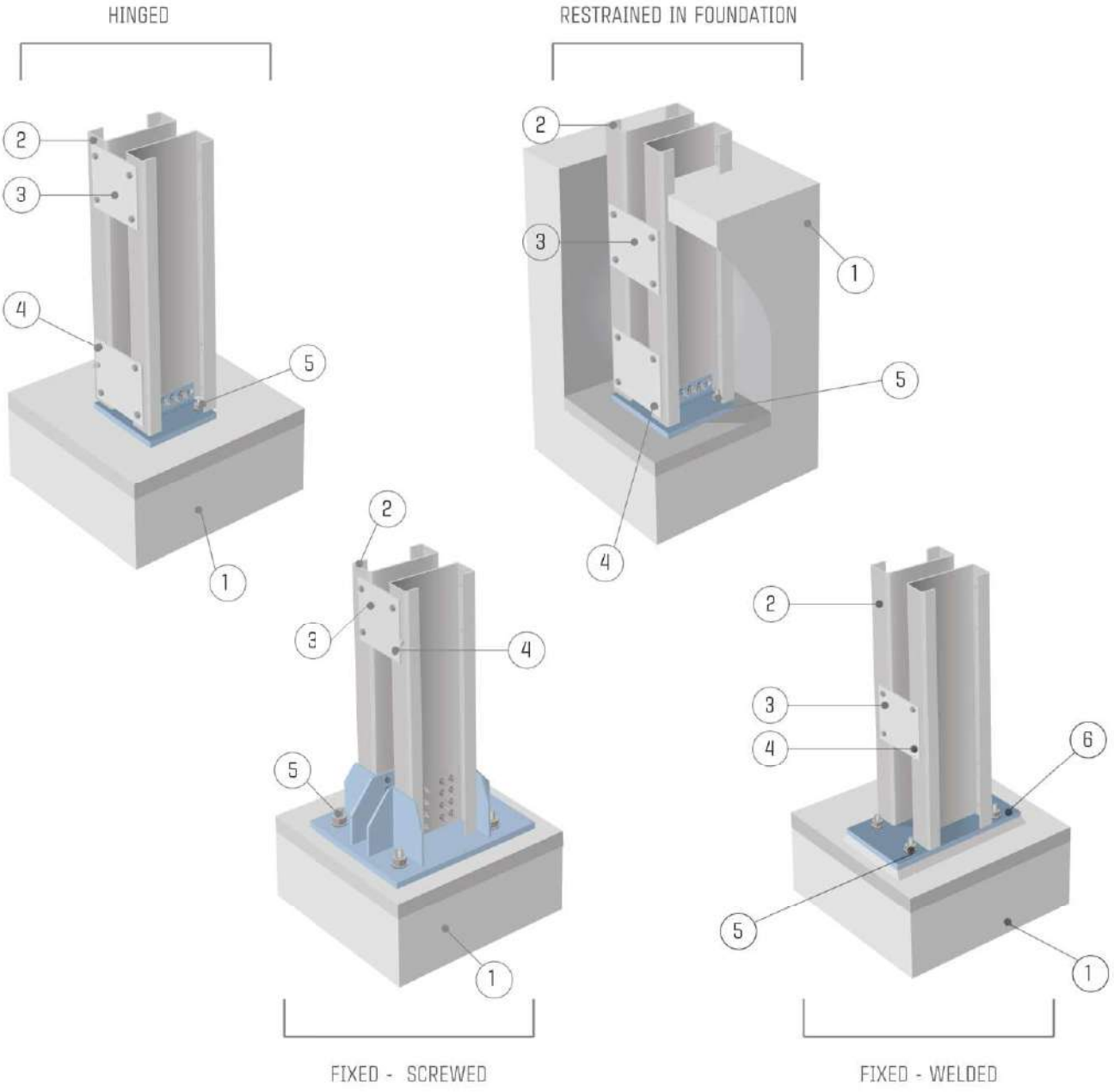
COLUMNS - FOUNDATION CONNECTION



1. Footing
2. Main girder column, with hot-dip zinc coating (450 g/m2), pre-formed holes
3. Batten
4. Galvanized, mounting screw class 8.8 with pad and nut

5. Injectable anchors or cast-in anchors
6. Foot plate welded to the column

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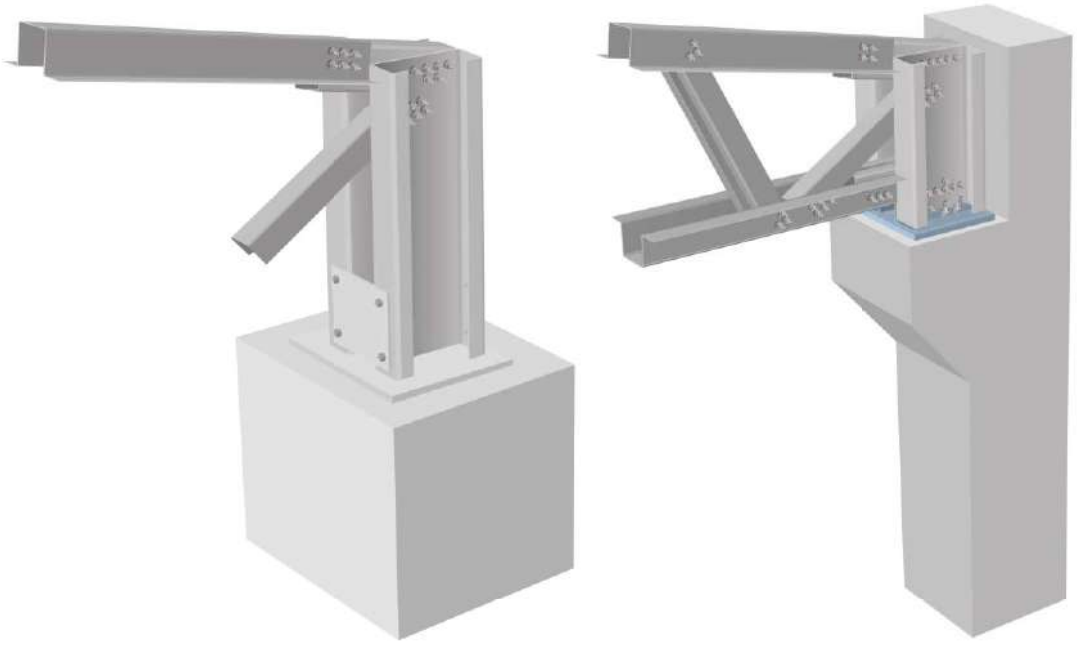
COLUMN – TRUSS GIRDER
connection

RIGID CONNECTION TO STEEL COLUMN

HINGED CONNECTION TO STEEL COLUMN

HINGED CONNECTION TO REINFORCED CONCRETE COLUMN



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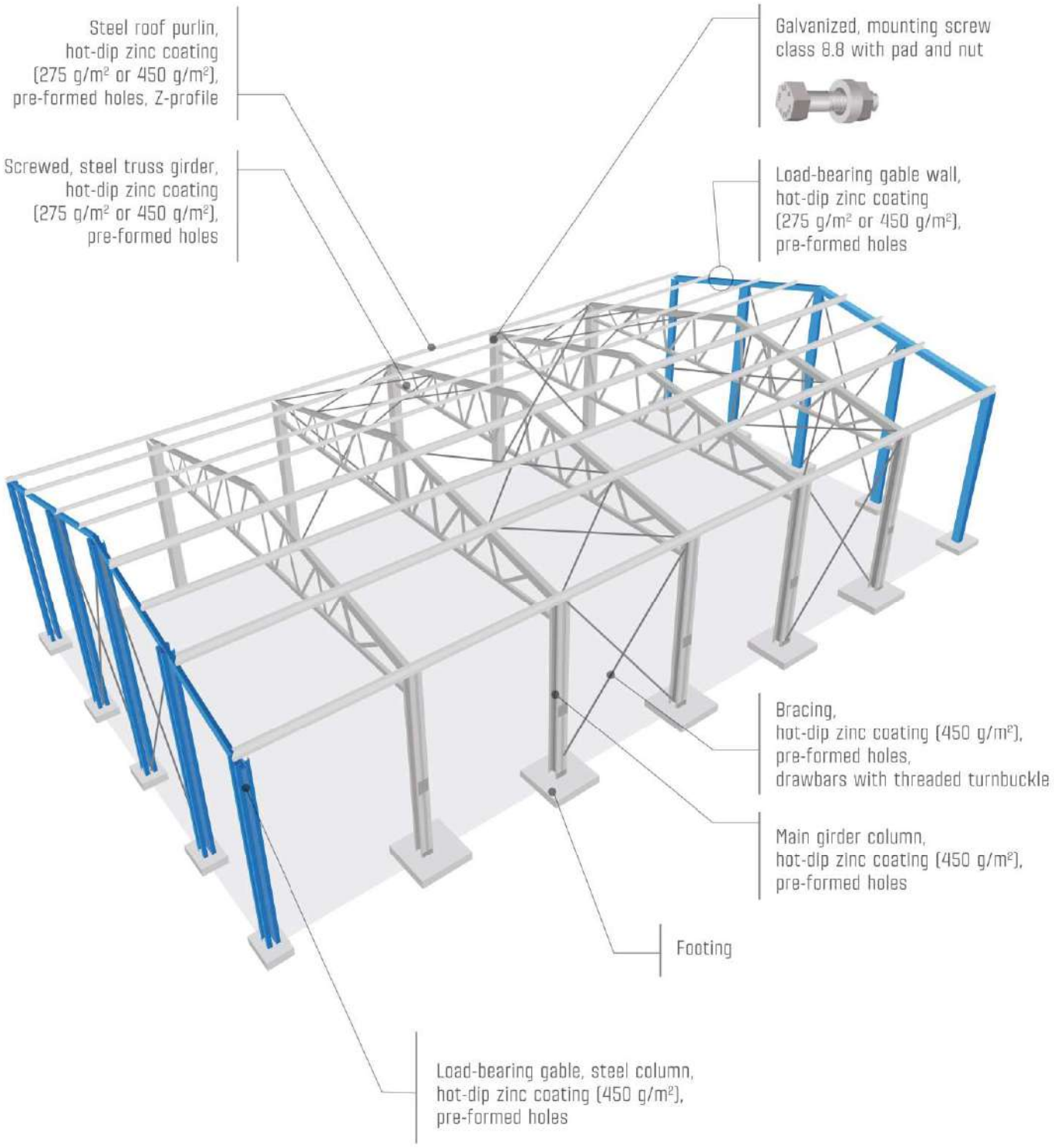
CONSTRUCTION
with load-bearing gable wall



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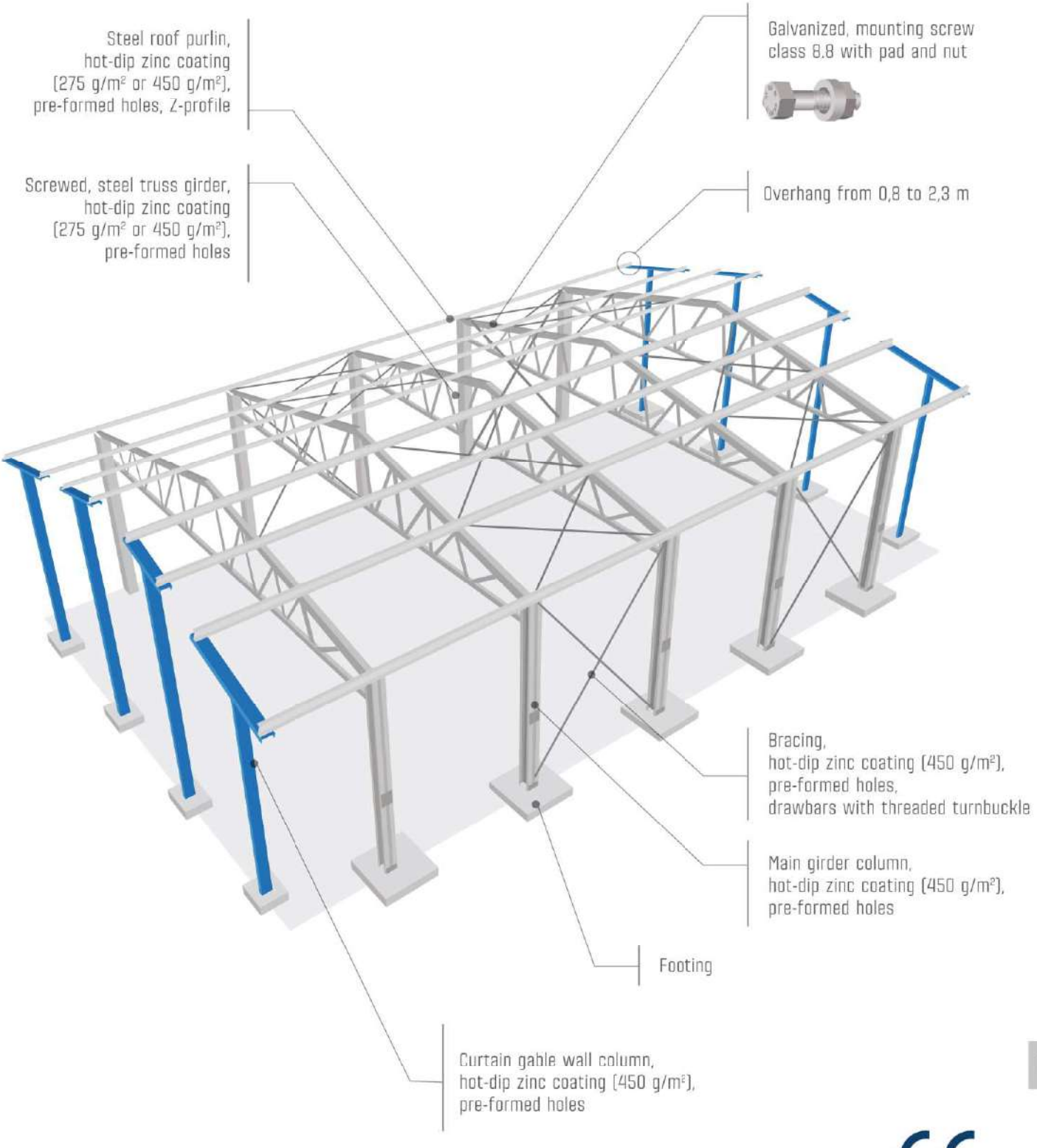
CONSTRUCTION
with standard gable wall (overhang)



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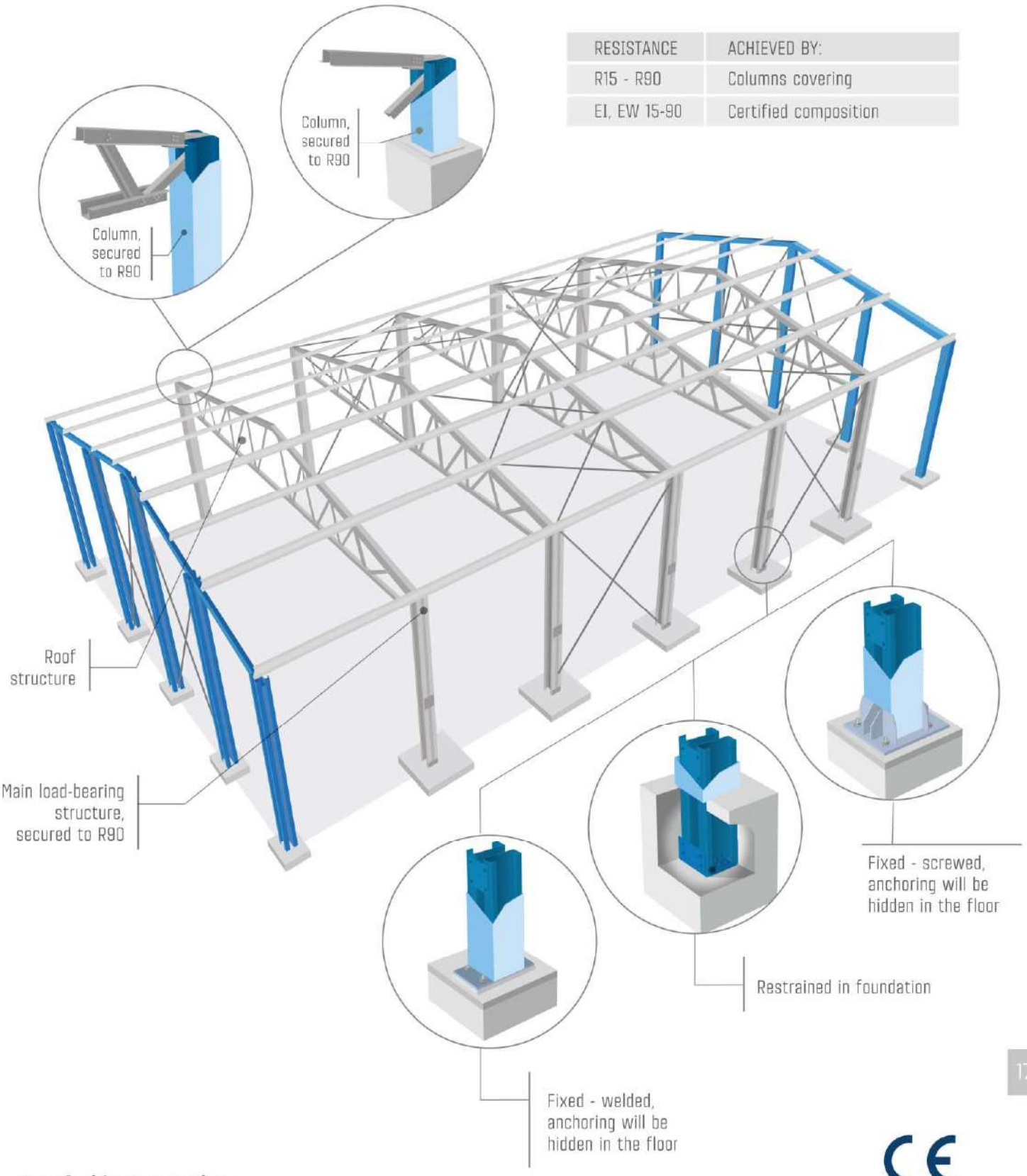
FIRE RESISTANCE
walls - construction protection*

RESISTANCE	ACHIEVED BY:
R15 - R90	Columns covering
EI, EW 15-90	Certified composition



* roof without protection,
walls keep standing after the roof has burnt

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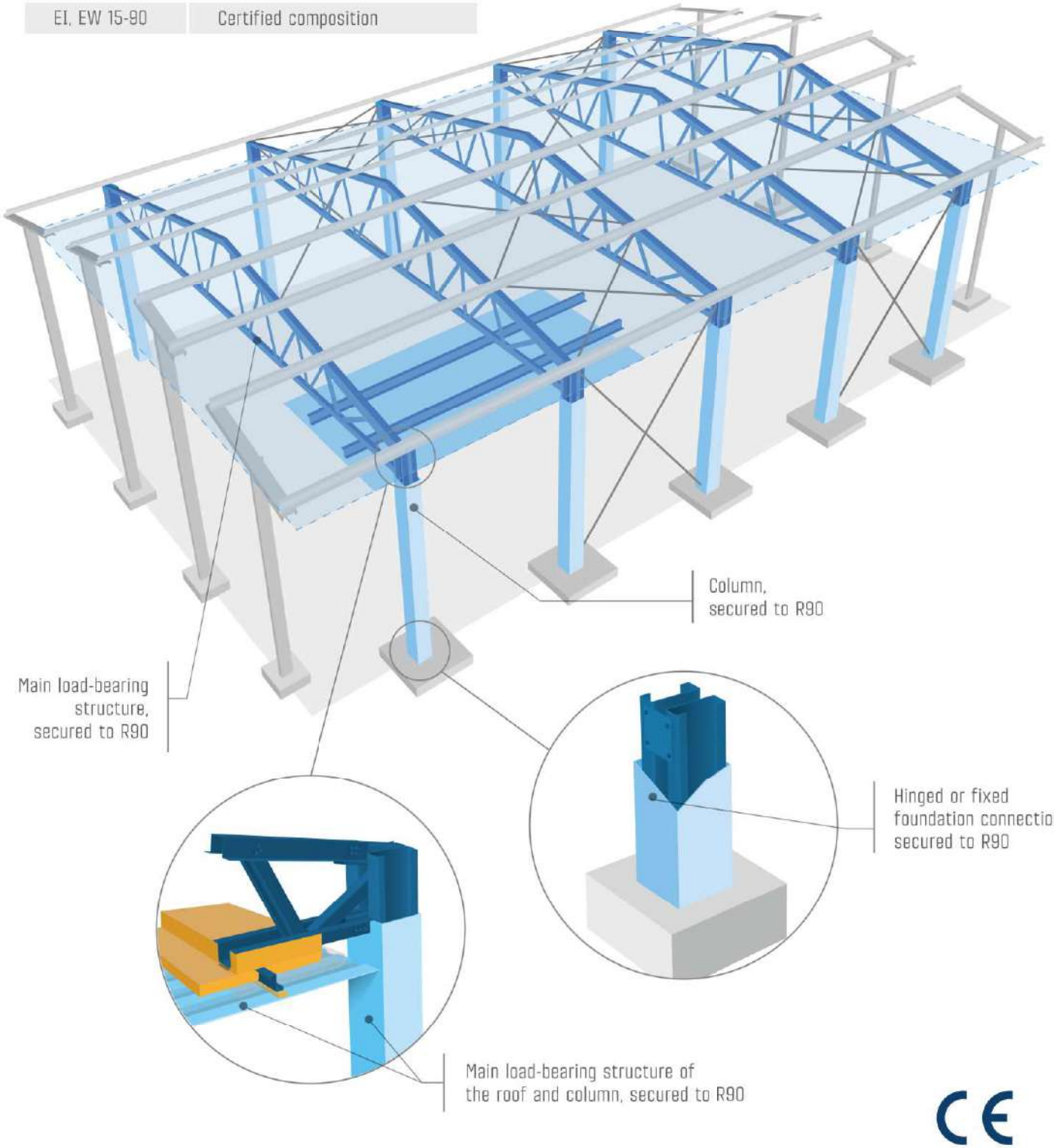
FIRE RESITANCE
walls/roof - construction protection

RESISTANCE	ACHIEVED BY:
R15 - R90	Columns covering Fire soffit
EI, EW 15-90	Certified composition



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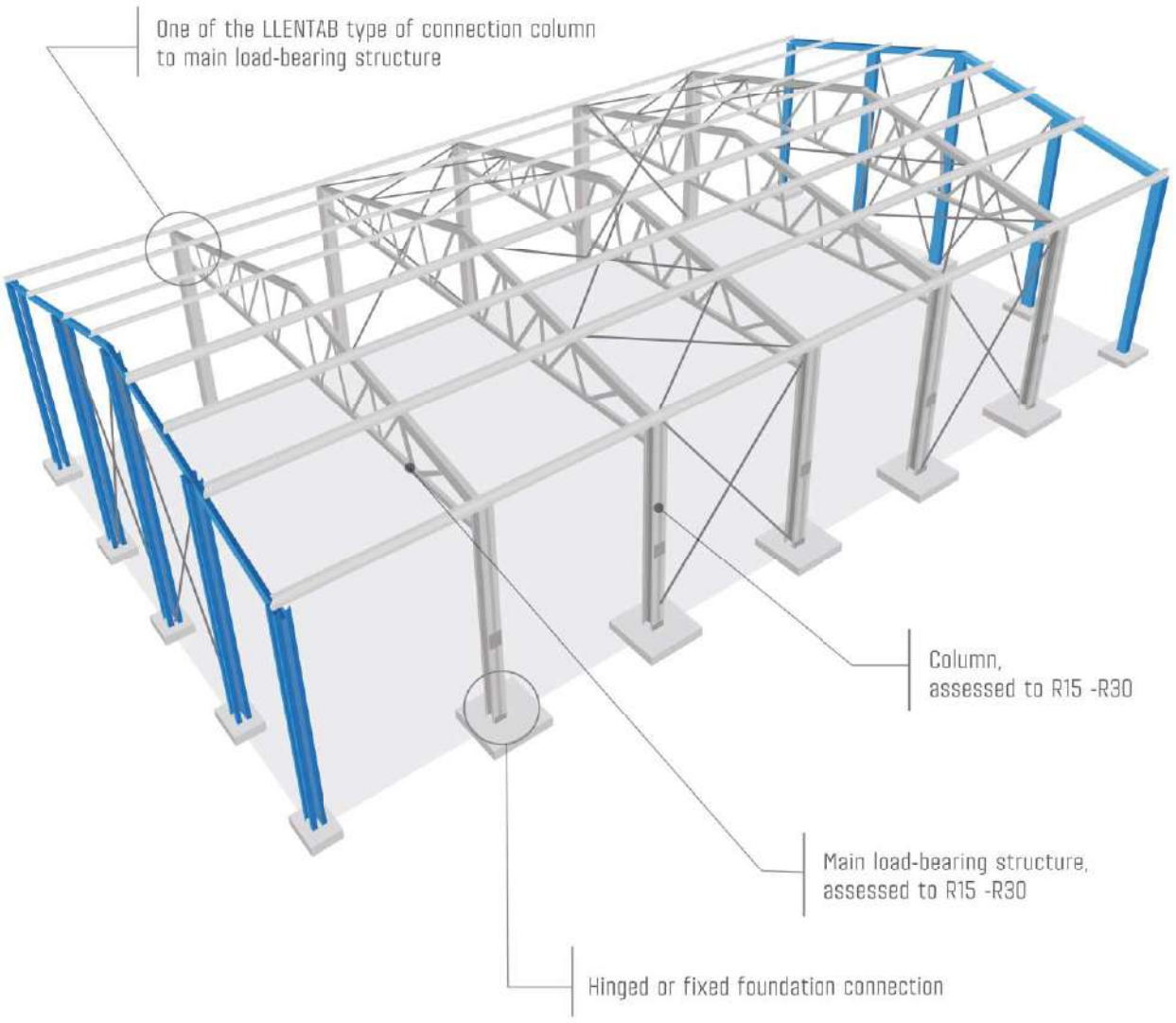
FIRE RESISTANCE
walls/roof - calculated according to Eurocode

RESISTANCE	ACHIEVED BY:
R15	Calculated according to the standard curve or in the case of fitting sprinklers or smoke extraction, an expert opinion being made
R30	In the case of sprinklers or smoke extraction, carry out an expert opinion
EI, EW 15-30	Certified composition



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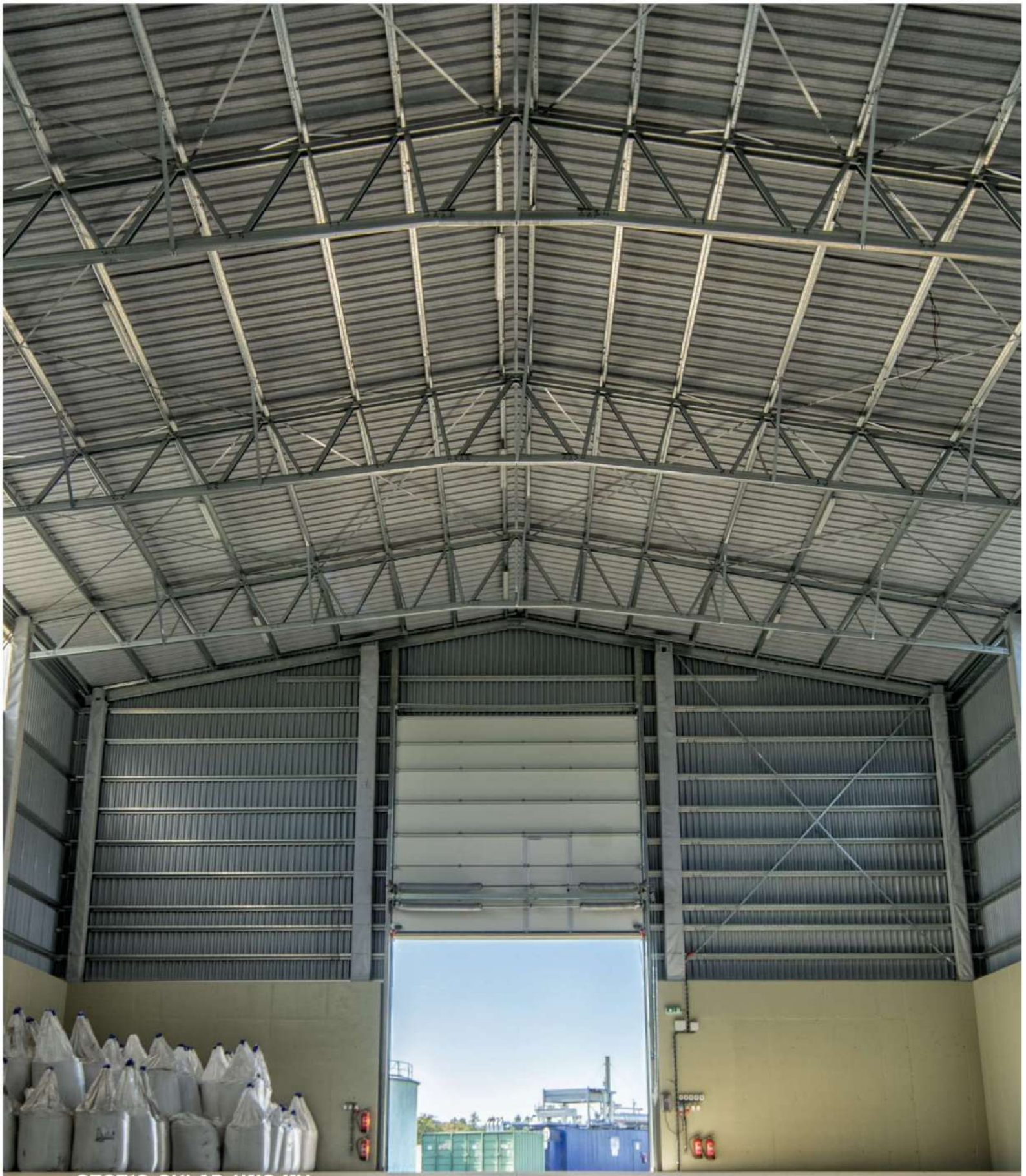
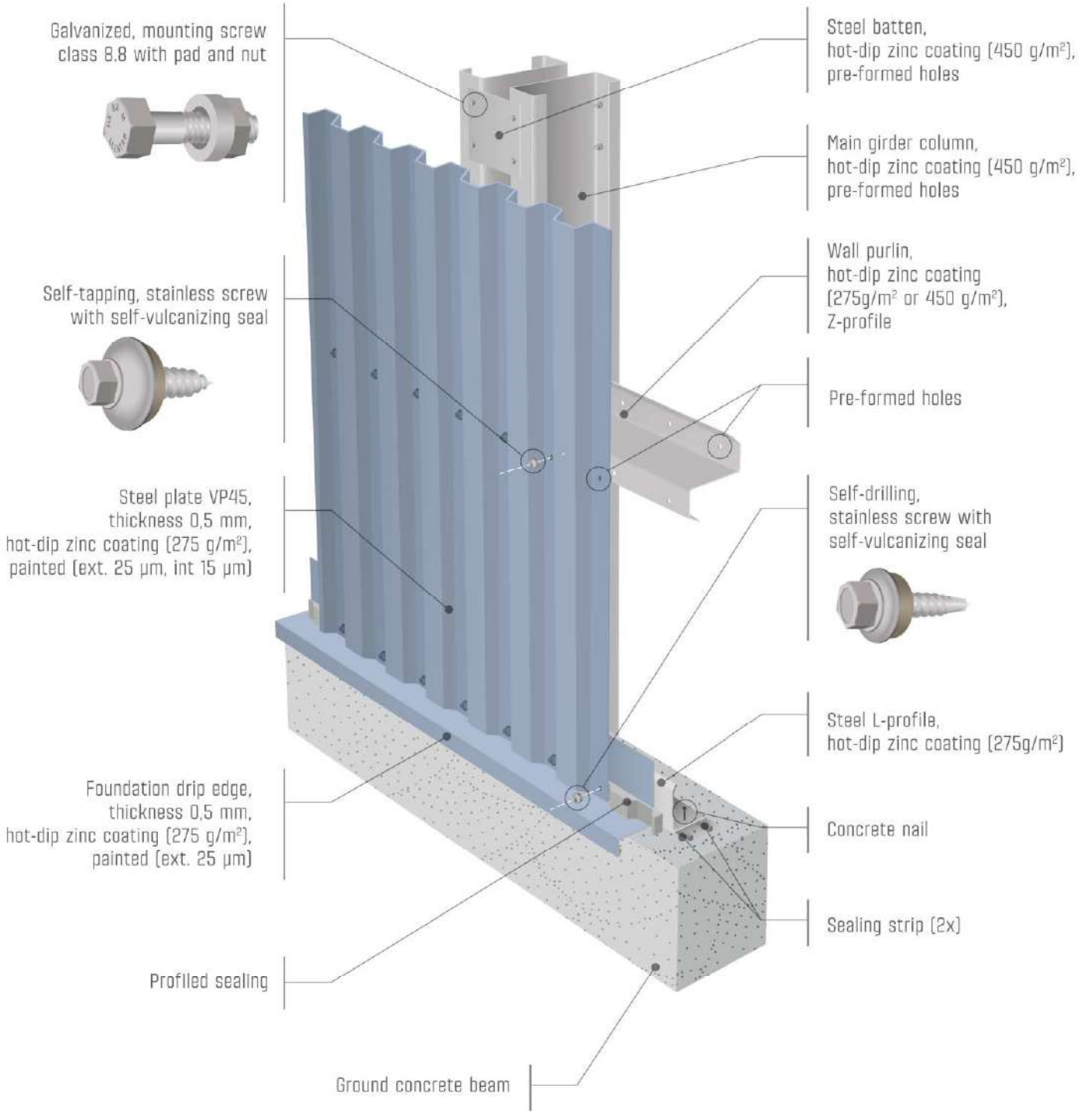


CZ0712 SKLAD HNOJIV

BUILDING SIZE	1 348 m²
CATEGORY	Agriculture building
INSULATION	No
ROOF SLOPE	11°
HEIGHT	5.8 m
LENGTH	66.1 m
WIDTH	20.4 m
COUNTRY	Czech Republic
CITY	Hostouň

WALL - TYPE 0
Uninsulated



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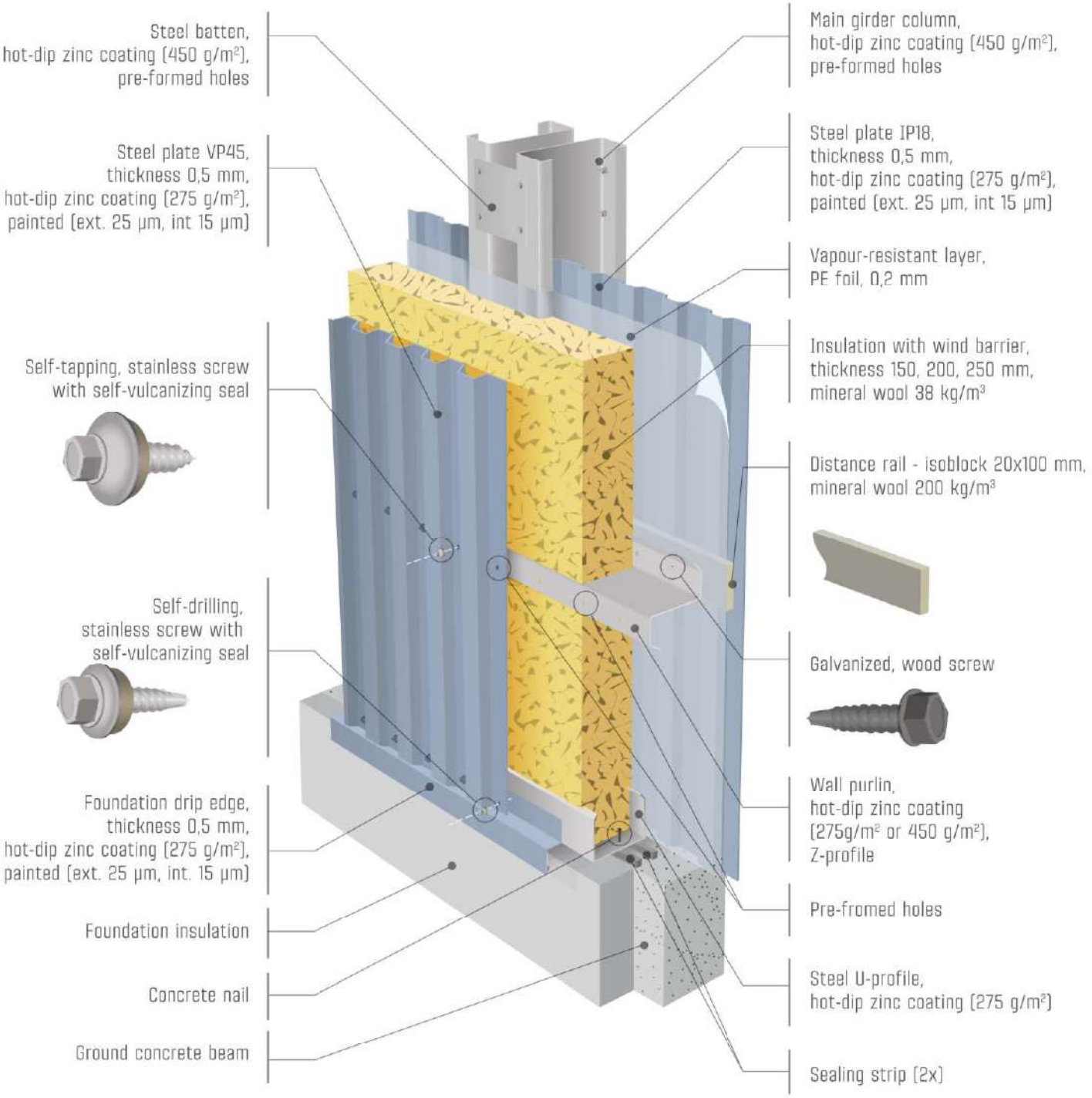
CZ0757 VONDRÁČEK

BUILDING SIZE	5 370 m²	**HEIGHT**	8.3 m
CATEGORY	Storage building	**LENGTH**	157.0 m
INSULATION	Yes	**WIDTH**	34.2 m
ROOF SLOPE	4°	**COUNTRY**	Czech Republic
		CITY	Háje

WALL - TYPE 4F
wall insulation - compound cladding



Heat transfer coefficients Uc [W/m²K]	8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.45	0.23	0.20
Insulation thickness (mm)*	150	220	240
U_c	0.37	0.23	0.20
U_0	0.23	0.16	0.15

* Insulation that meets required U_c

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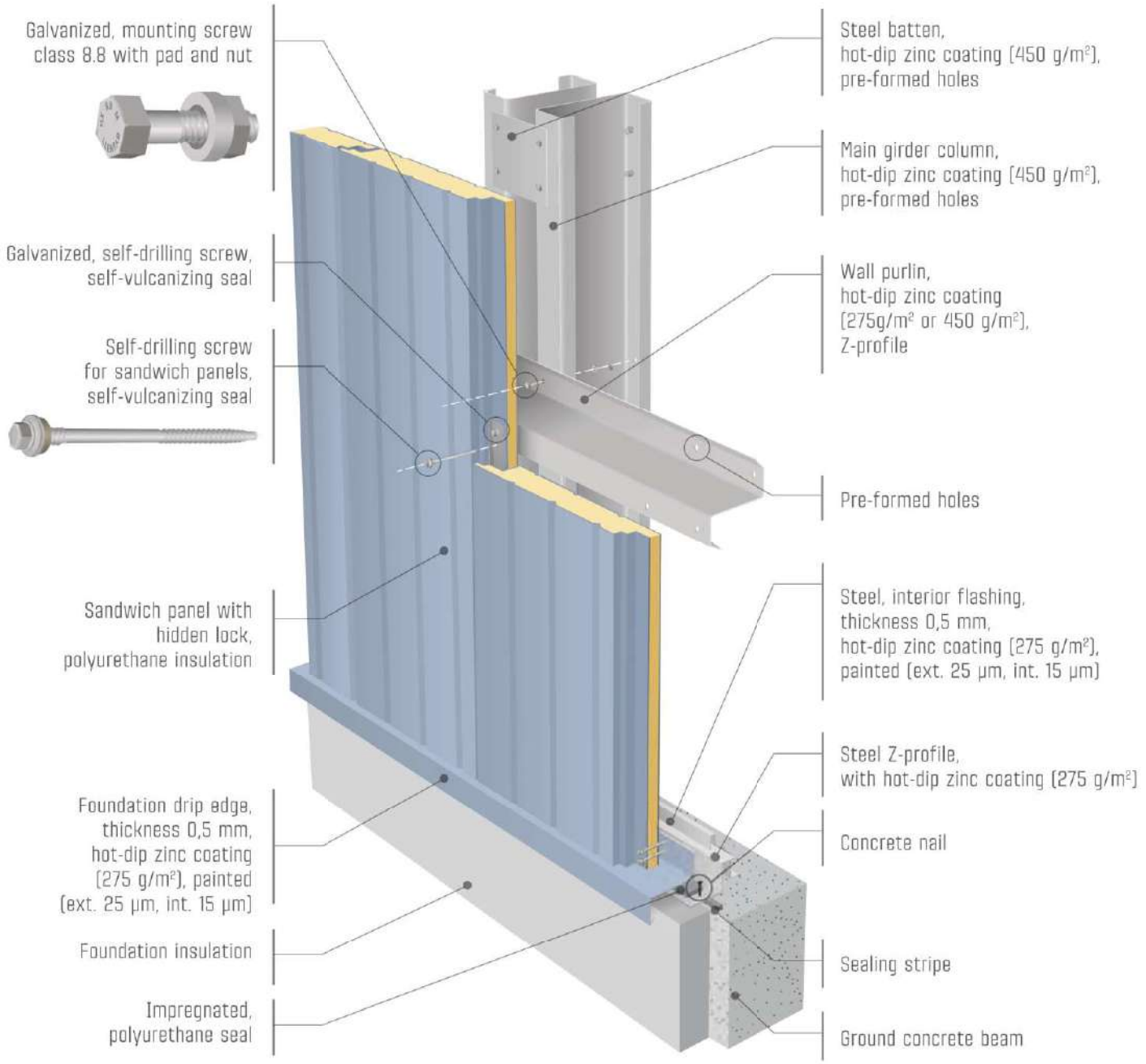
CZ0561 PNEU PROCHÁZKA

BUILDING SIZE	766 m²
CATEGORY	Storage building
INSULATION	Yes
ROOF SLOPE	7°
HEIGHT	7.0 m
LENGTH	30.4 m
WIDTH	25.2 m
COUNTRY	Czech Republic
CITY	Dobroviz

WALL - TYPE 6
wall insulation - PUR sandwich panels (vertically placed)



Heat transfer coefficients Uc [W/m²K]	PIR foam 8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.45	0.23	0.20
Insulation thickness (mm)*	60	100	120
U_c	0.39	0.22	0.19
U_0	0.39	0.22	0.19

* Insulation that meets required U_c

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SK0120 JL ARÉNA

BUILDING SIZE	1 800 m²
CATEGORY	Sport building
INSULATION	Yes
ROOF SLOPE	14°
HEIGHT	8.1 m
LENGTH	60.0 m
WIDTH	30.0 m
COUNTRY	Slovakia
CITY	Liptovský Mikuláš

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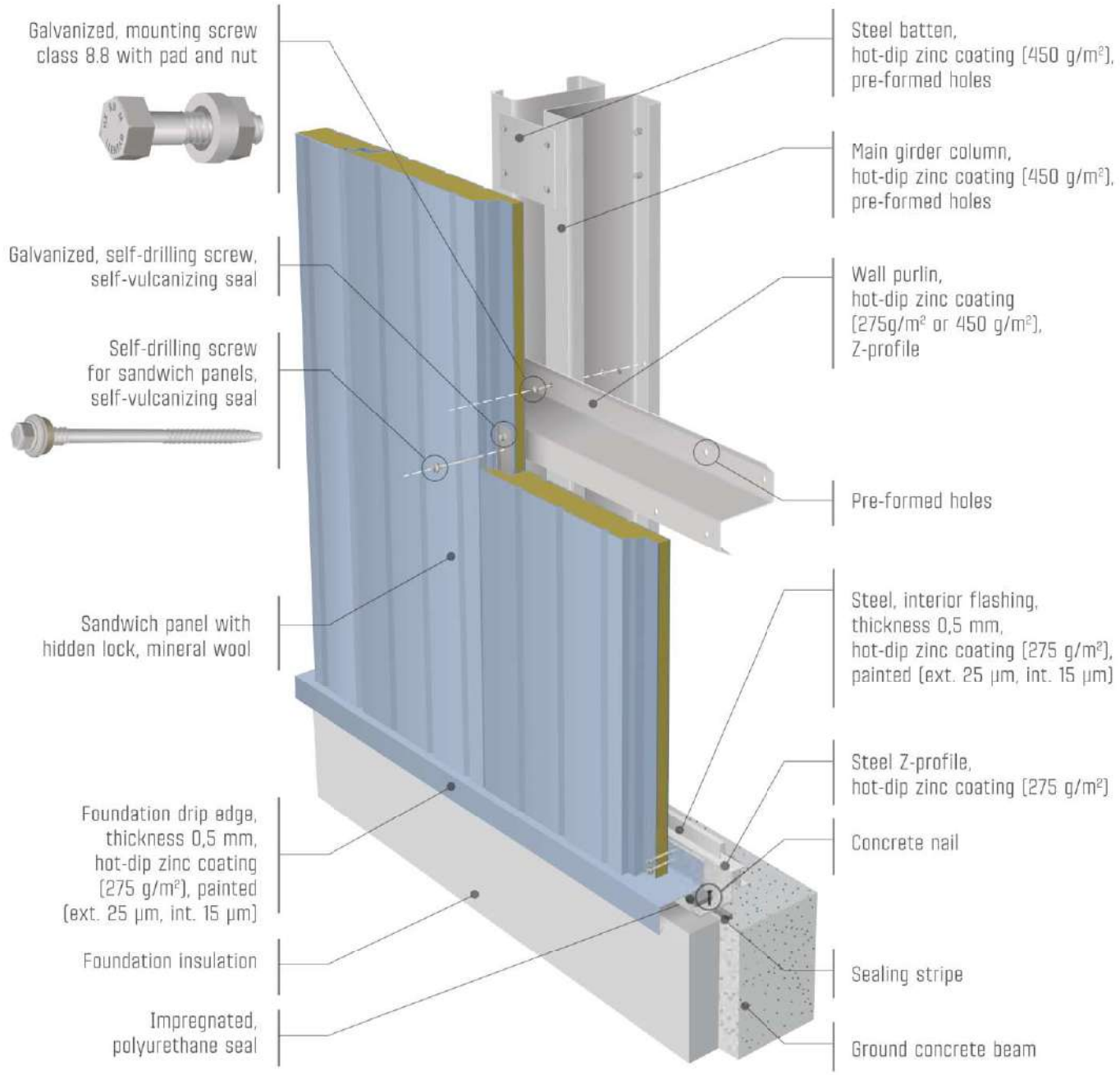
WALL - TYPE 6
wall insulation - mineral wool sandwich panels (vertical arrangement)



Heat transfer coefficients Uc [W/m²K]	wool		
	8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.45	0.23	0.20
Insulation thickness (mm)*	100	175	200
U_c	0.38	0.23	0.20
U_0	0.38	0.23	0.20

* Insulation that meets required U_c

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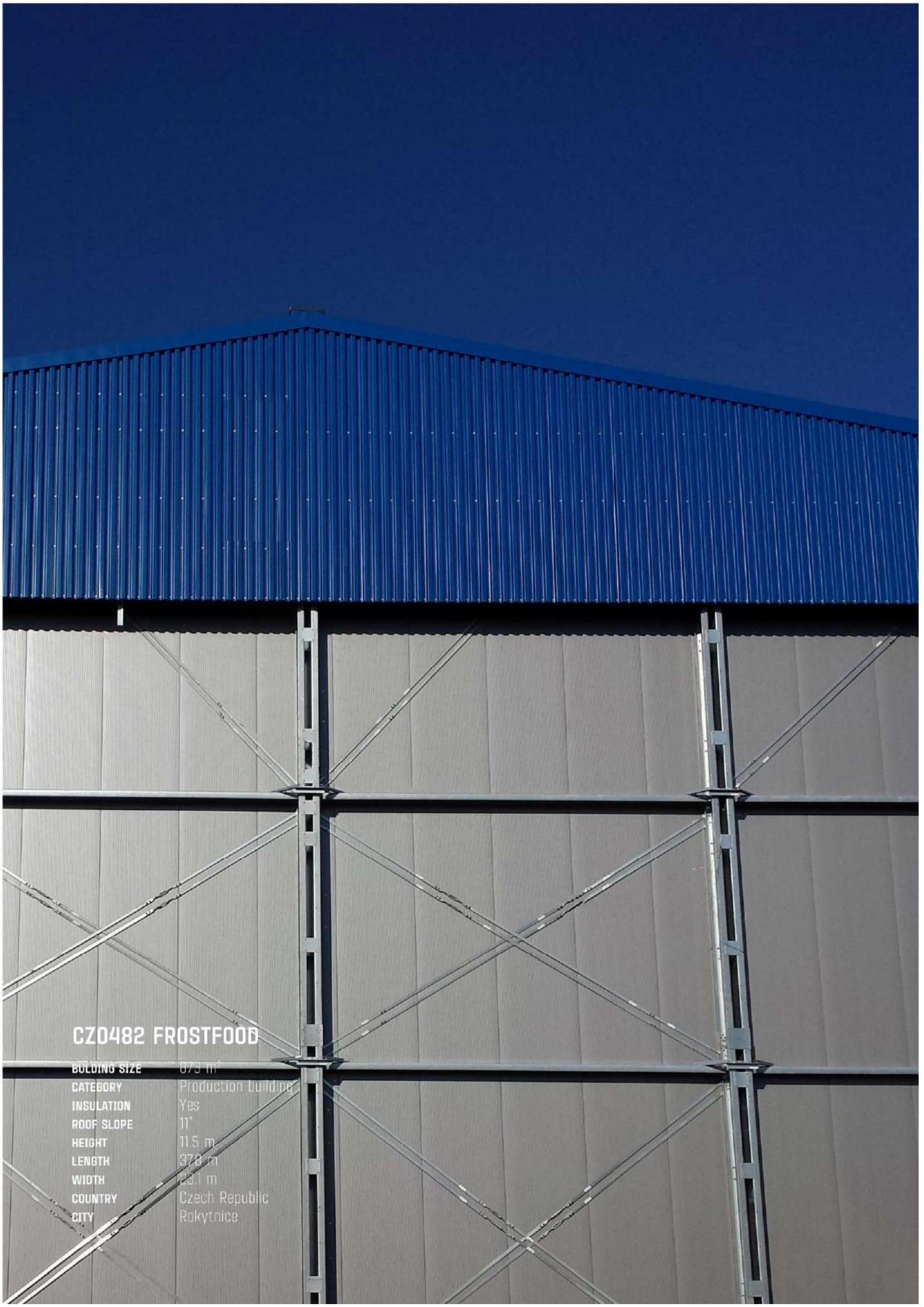
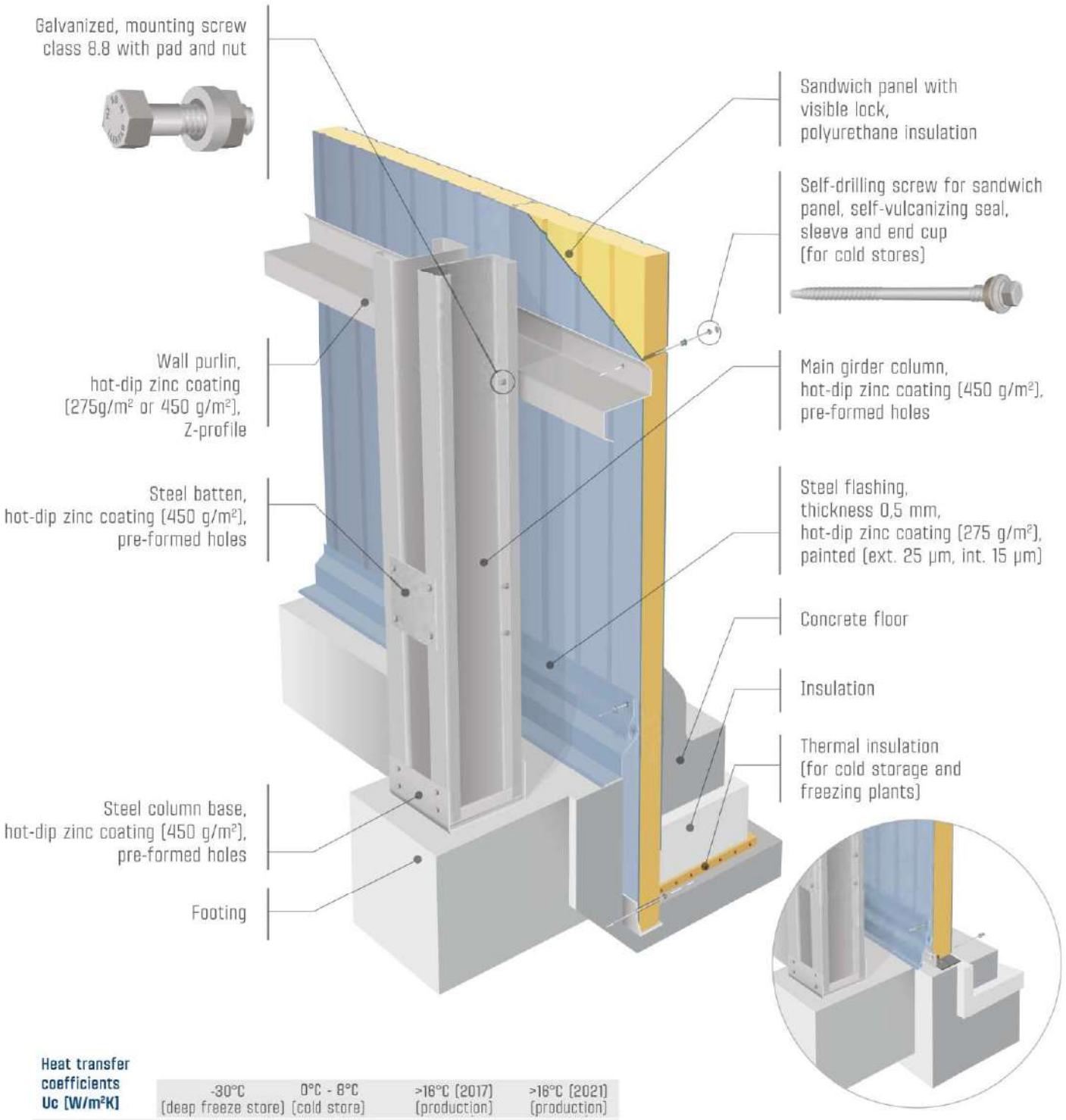


CZ0482 FROSTFOOD

BUILDING SIZE	873 m²
CATEGORY	Production building
INSULATION	Yes
ROOF SLOPE	11°
HEIGHT	11.5 m
LENGTH	37.8 m
WIDTH	23.1 m
COUNTRY	Czech Republic
CITY	Rokytnice

WALL - TYPE 6W

wall insulation - PUR sandwich panels (inner vertical arrangement)



Alternative solution

Heat transfer coefficients Uc [W/m²K]	-30°C (deep freeze store)	0°C - 8°C (cold store)	>16°C (2017) (production)	>16°C (2021) (production)
U_c required	-	-	0.23	0.20
Insulation thickness [mm]*	160	100	100	120
U_c	0.14	0.22	0.22	0.19
U_0	0.14	0.22	0.22	0.19

* Insulation that meets required U_c

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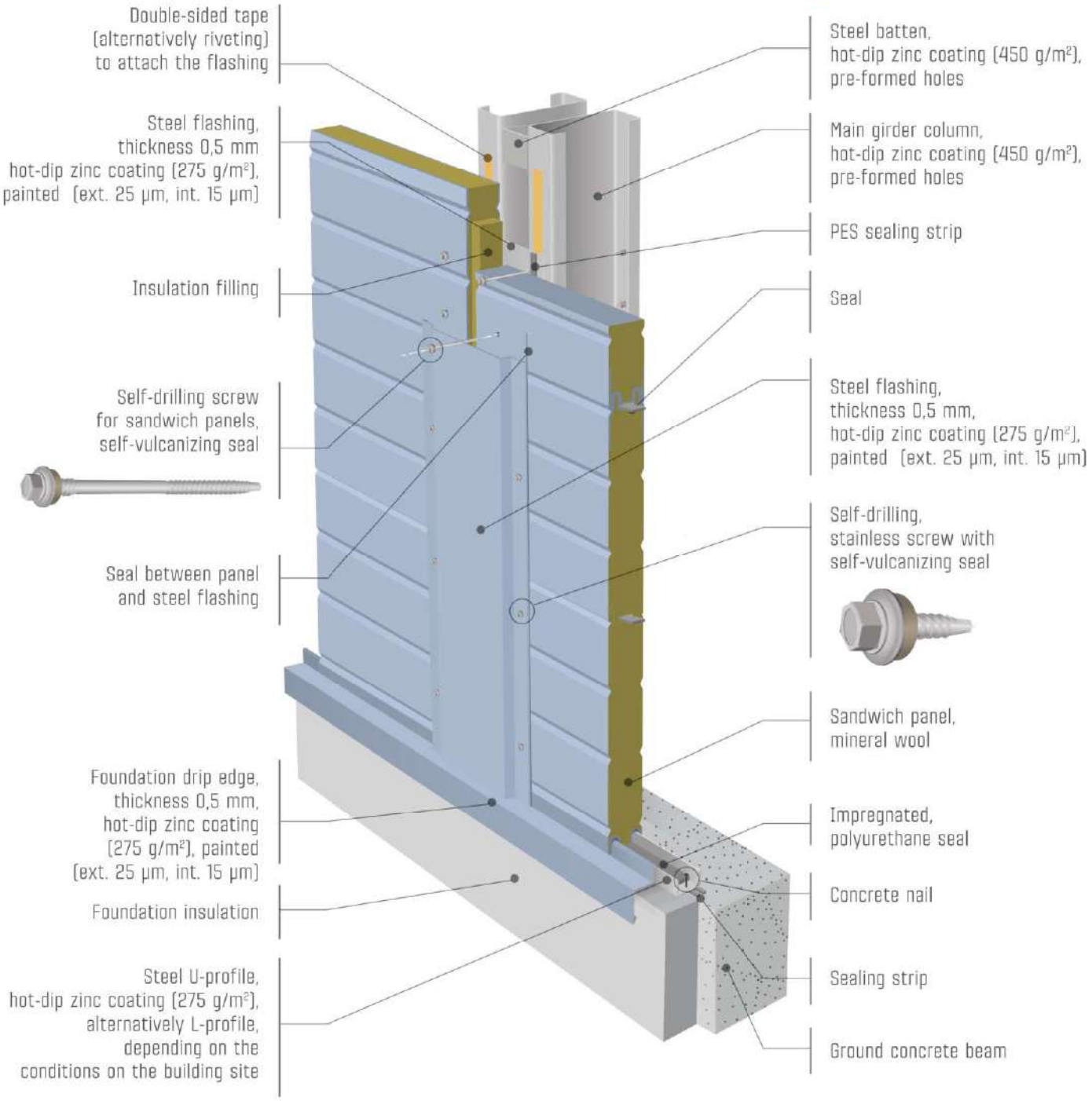
CZ0501 KOLBENSCHMIDT

BUILDING SIZE	4 602 m²
CATEGORY	Production building
INSULATION	Yes
ROOF SLOPE	2°
HEIGHT	7.4/4.6/8.5 m
LENGTH	47.0/75.1/54.7 m
WIDTH	75.4/6.7/10.2 m
COUNTRY	Czech Republic
CITY	Chabařovice

WALL - TYPE 7
wall insulation - mineral wool sandwich panels (horizontal arrangement)



Heat transfer coefficients Uc [W/m²K]	wool 8-16°C	wool >16°C (2017)	wool >16°C (2021)
U_c required	0.45	0.23	0.20
Insulation thickness (mm)*	100	175	200
U_c	0.38	0.23	0.19
U_0	0.38	0.23	0.19

* Insulation that meets required U_c

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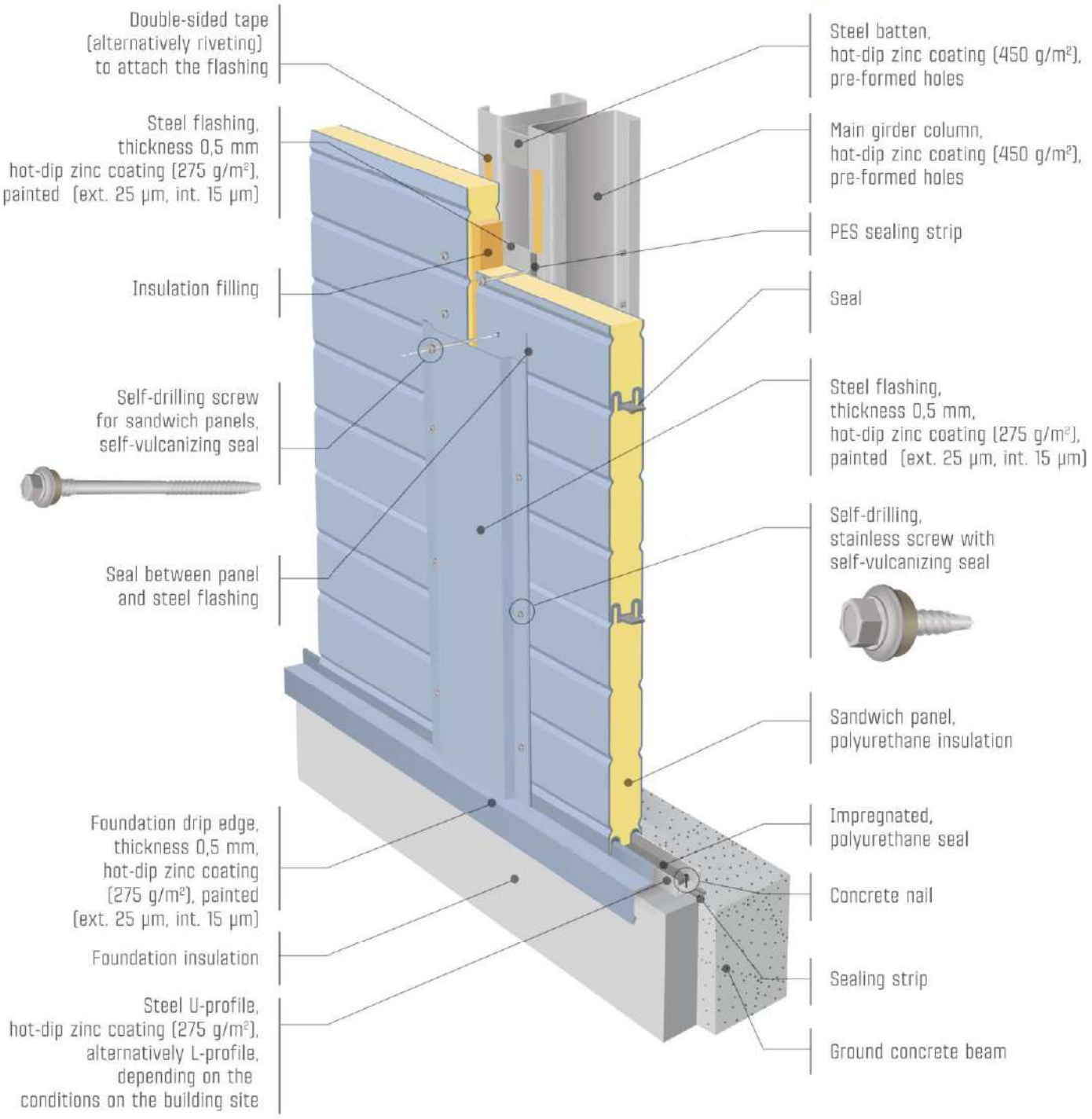
CZ0946 SERBUS KOBERCE

BUILDING SIZE	660 m²
CATEGORY	Storage building
INSULATION	Yes
ROOF SLOPE	7°
HEIGHT	6.8 m
LENGTH	33.0 m
WIDTH	20.0 m
COUNTRY	Czech Republic
CITY	Nehvizdy

WALL - TYPE 7
wall insulation - PUR sandwich panels (horizontal arrangement)



Heat transfer coefficients Uc [W/m²K]	PIR foam 8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.45	0.23	0.20
Insulation thickness (mm)*	50	100	120
U_c	0.45	0.22	0.19
U_0	0.45	0.22	0.19

* Insulation that meets required U_c

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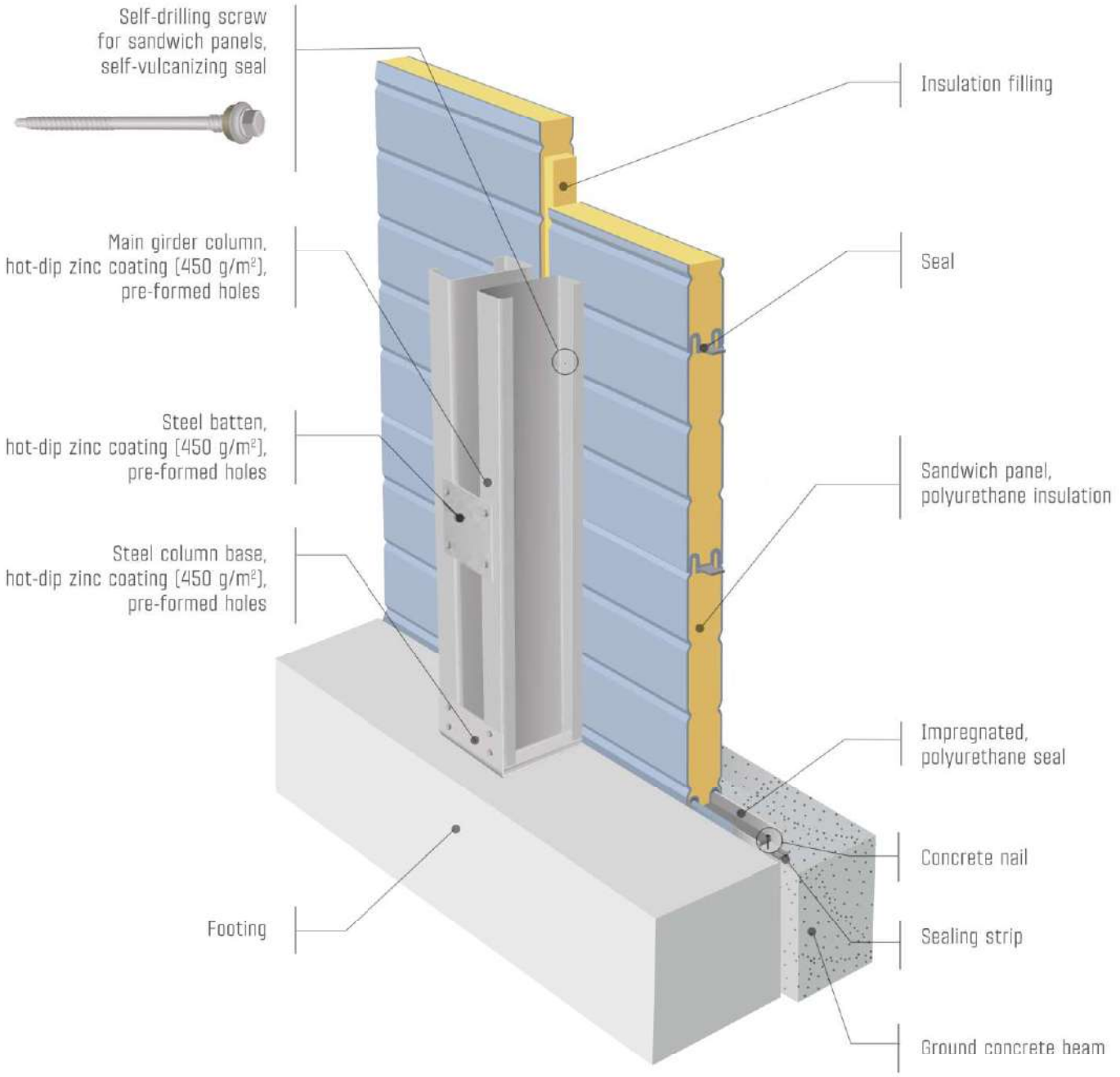
CZ0555 TOP STAV AGATA

BUILDING SIZE	3 608 m²
CATEGORY	Agriculture building
INSULATION	Yes
ROOF SLOPE	7°
HEIGHT	7.15 m
LENGTH	78.1 m
WIDTH	46.2 m
COUNTRY	Czech Republic
CITY	Lysa nad Labem

WALL - TYPE 7
wall insulation - PUR sandwich panels (inner horizontal arrangement)



Heat transfer coefficients Uc [W/m²K]	PIR foam 8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.45	0.23	0.20
Insulation thickness (mm)*	**50**	**100**	**120**
U_c	0.45	0.22	0.19
U_0	0.45	0.22	0.19

* Insulation that meets required U_c

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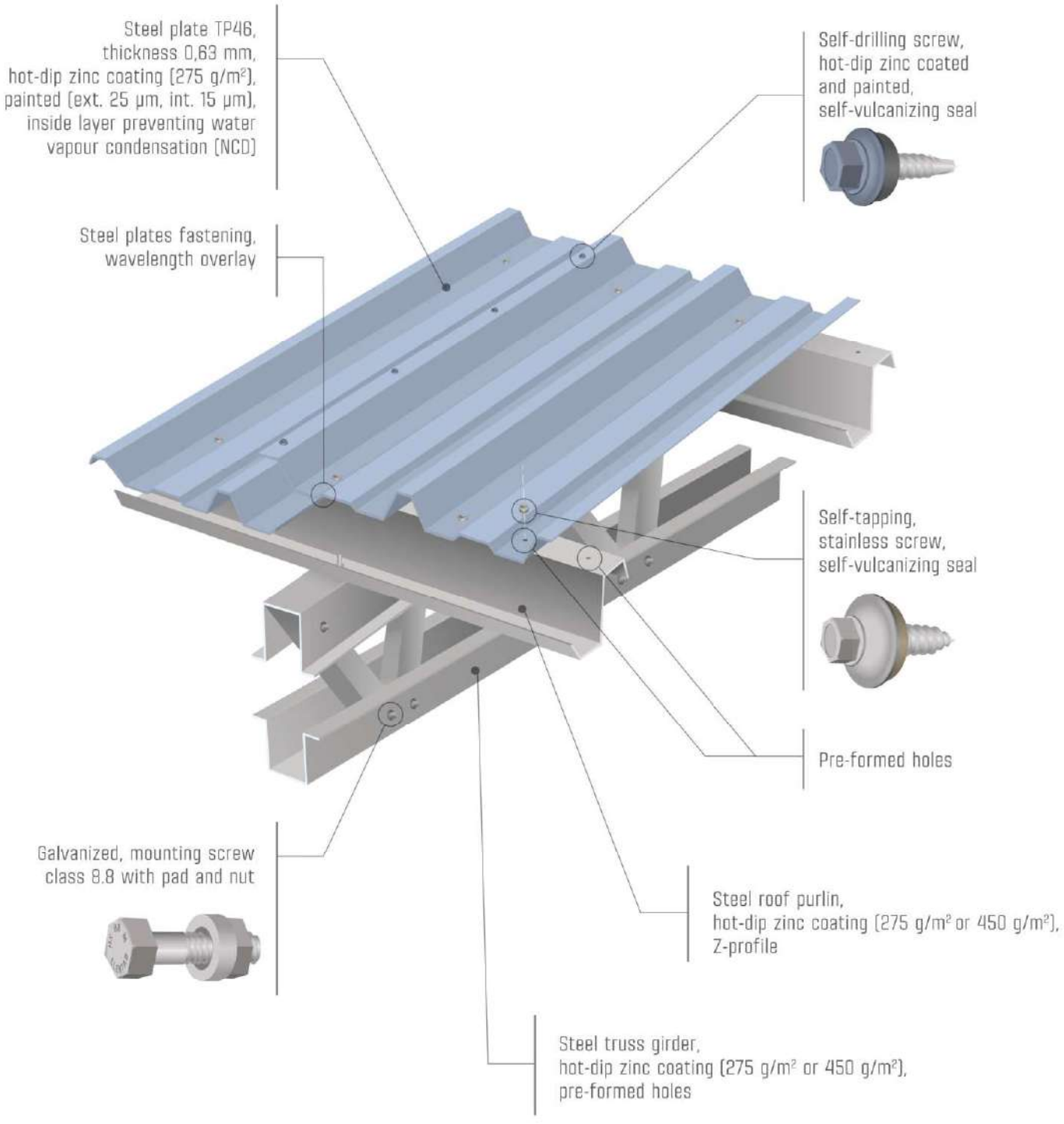
CZ0728 BSS

BUILDING SIZE	5 881 m²	**HEIGHT**	7.4 m
CATEGORY	Storage building	**LENGTH**	147.4 m
INSULATION	No	**WIDTH**	39.9 m
ROOF SLOPE	4°	**COUNTRY**	Czech Republic
		CITY	Sokolov

ROOF - TYPE 0
Uninsulated



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CZ0831 TŘÍDÍRNA VAJEC

BUILDING SIZE	7 904 m²
CATEGORY	Agriculture building
INSULATION	Yes
ROOF SLOPE	7°
HEIGHT	4.6 m
LENGTH	104.0 m
WIDTH	76.0 m
COUNTRY	Czech Republic
CITY	Vejprnice

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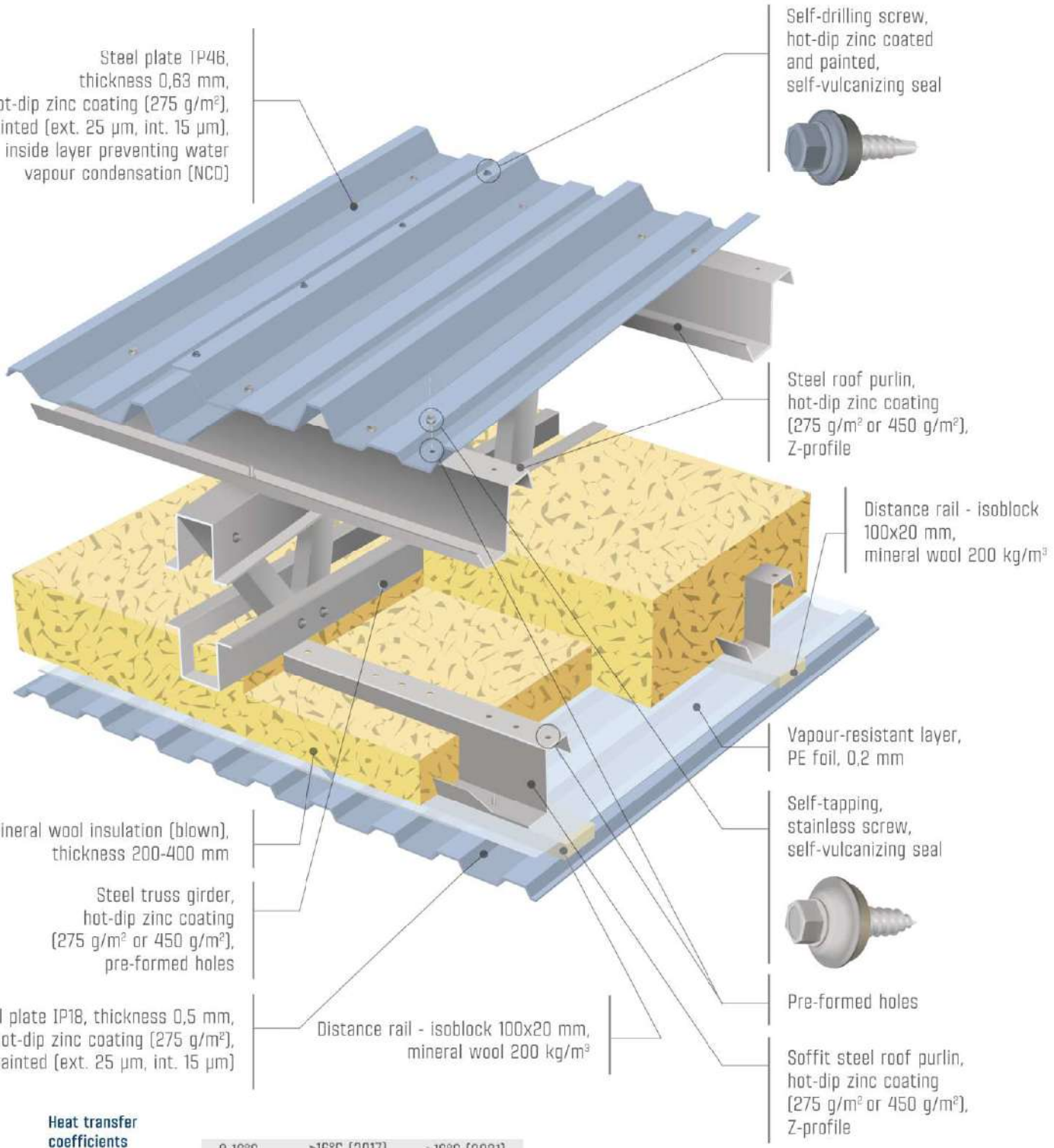
ROOF - TYPE 2LF
roof insulation - compound cladding



Heat transfer coefficients Uc [W/m²K]	8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.30	0.18	0.15
Insulation thickness (mm)*	150	250	300
U_c	0.30	0.18	0.15
U_0	0.25	0.15	0.13

* Insulation that meets required U_c

CE
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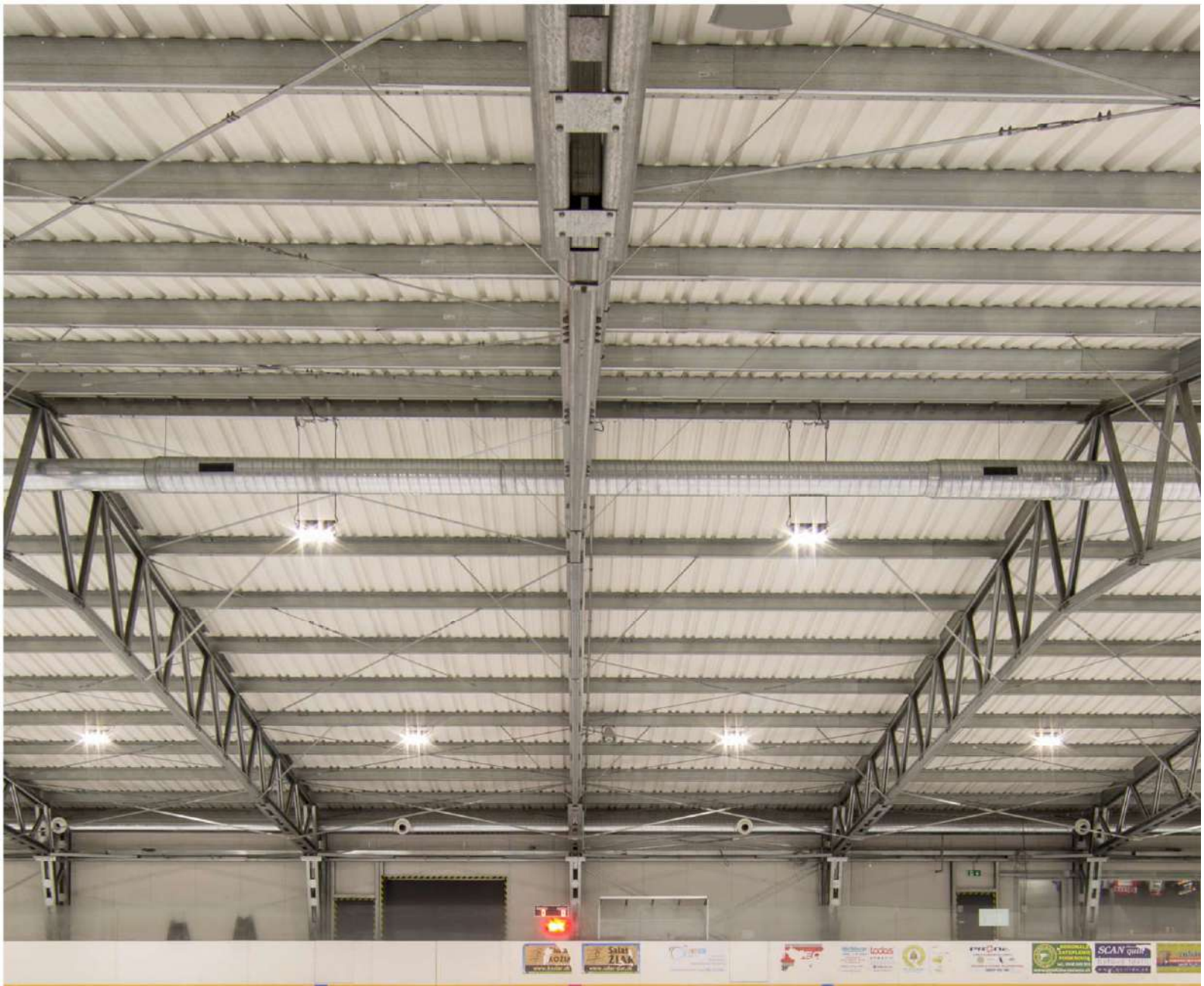
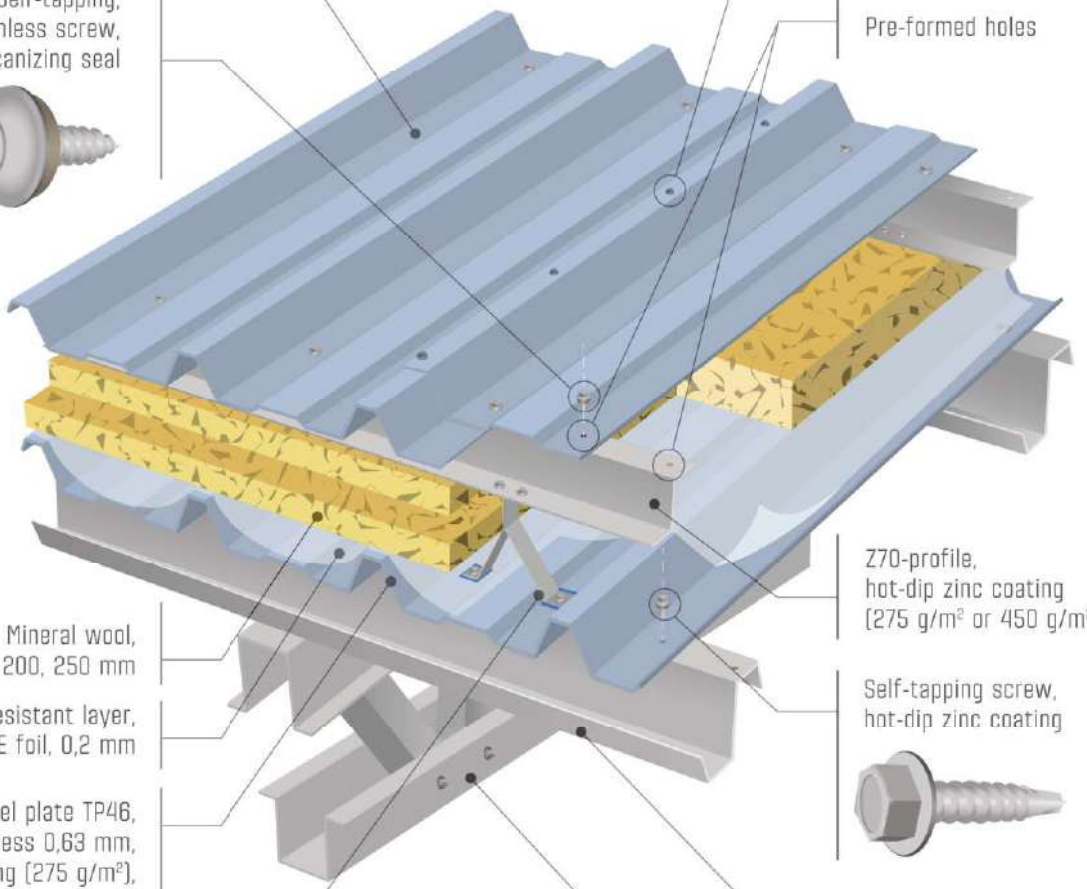


SK0120 JL ARÉNA

BUILDING SIZE	1 800 m²
CATEGORY	Sport building
INSULATION	Yes
ROOF SLOPE	14°
HEIGHT	3.1 m
LENGTH	60.0 m
WIDTH	30.0 m
COUNTRY	Slovakia
CITY	Liptovský Mikuláš

ROOF - TYPE 5
roof insulation - compound cladding



Steel plate TP46, thickness 0,63 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm),

Self-tapping, stainless screw, self-vulcanizing seal

Mineral wool, thickness 150, 200, 250 mm

Vapour-resistant layer, PE foil, 0,2 mm

Steel plate TP46, thickness 0,63 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm)

Steel console, hot-dip zinc coating (275 g/m² or 450 g/m²), height 150, 200 or 250 mm, with insulation pads reducing the thermal bridge

Self-drilling screw, hot-dip zinc coated and painted

Pre-formed holes

Z70-profile, hot-dip zinc coating (275 g/m² or 450 g/m²)

Self-tapping screw, hot-dip zinc coating

Steel roof purlin, hot-dip zinc coating (275 g/m² or 450 g/m²), Z-profile

Steel truss girder, hot-dip zinc coating (275 g/m² or 450 g/m²), pre-formed holes

Heat transfer coefficients Uc [W/m²K]	8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.30	0.18	0.15
Insulation thickness (mm)*	**150**	**250**	**270**
U_c	0.29	0.17	0.15
U_0	0.23	0.14	0.13

* Insulation that meets required U_c

CE
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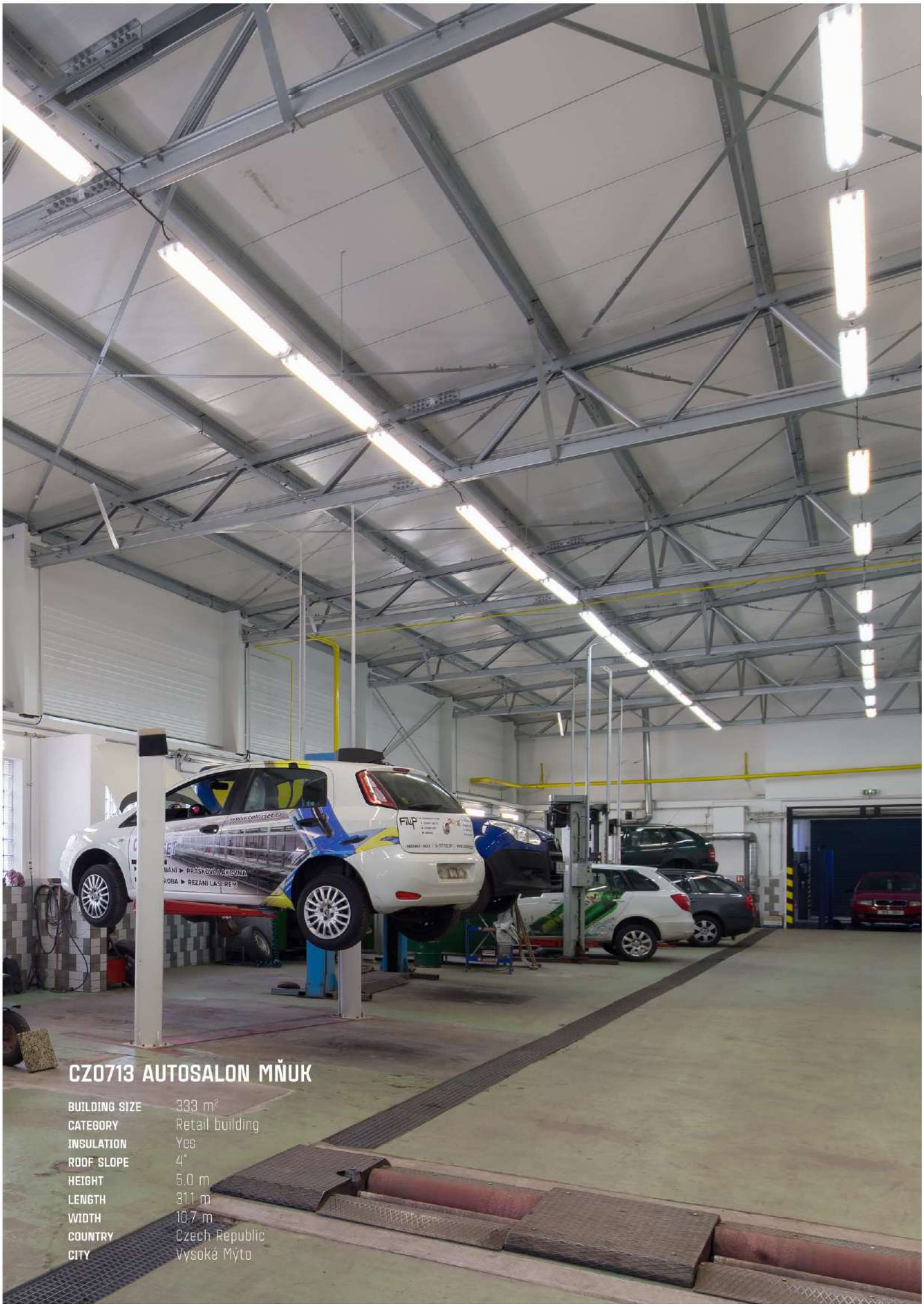
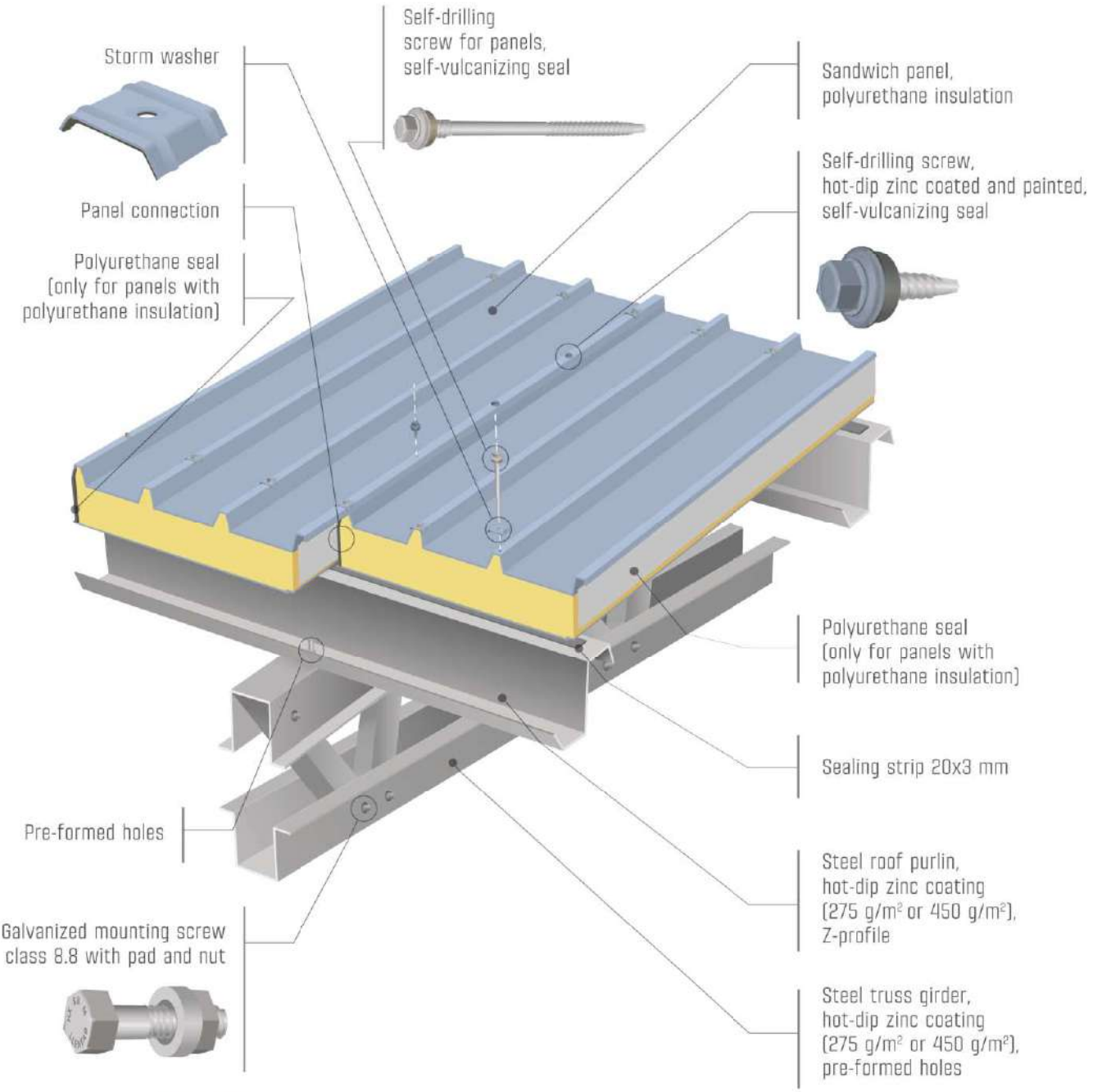


CZ0713 AUTOSALON MŇUK

BUILDING SIZE	333 m²
CATEGORY	Retail building
INSULATION	Yes
ROOF SLOPE	4°
HEIGHT	5.0 m
LENGTH	31.1 m
WIDTH	10.7 m
COUNTRY	Czech Republic
CITY	Vysoké Mýto

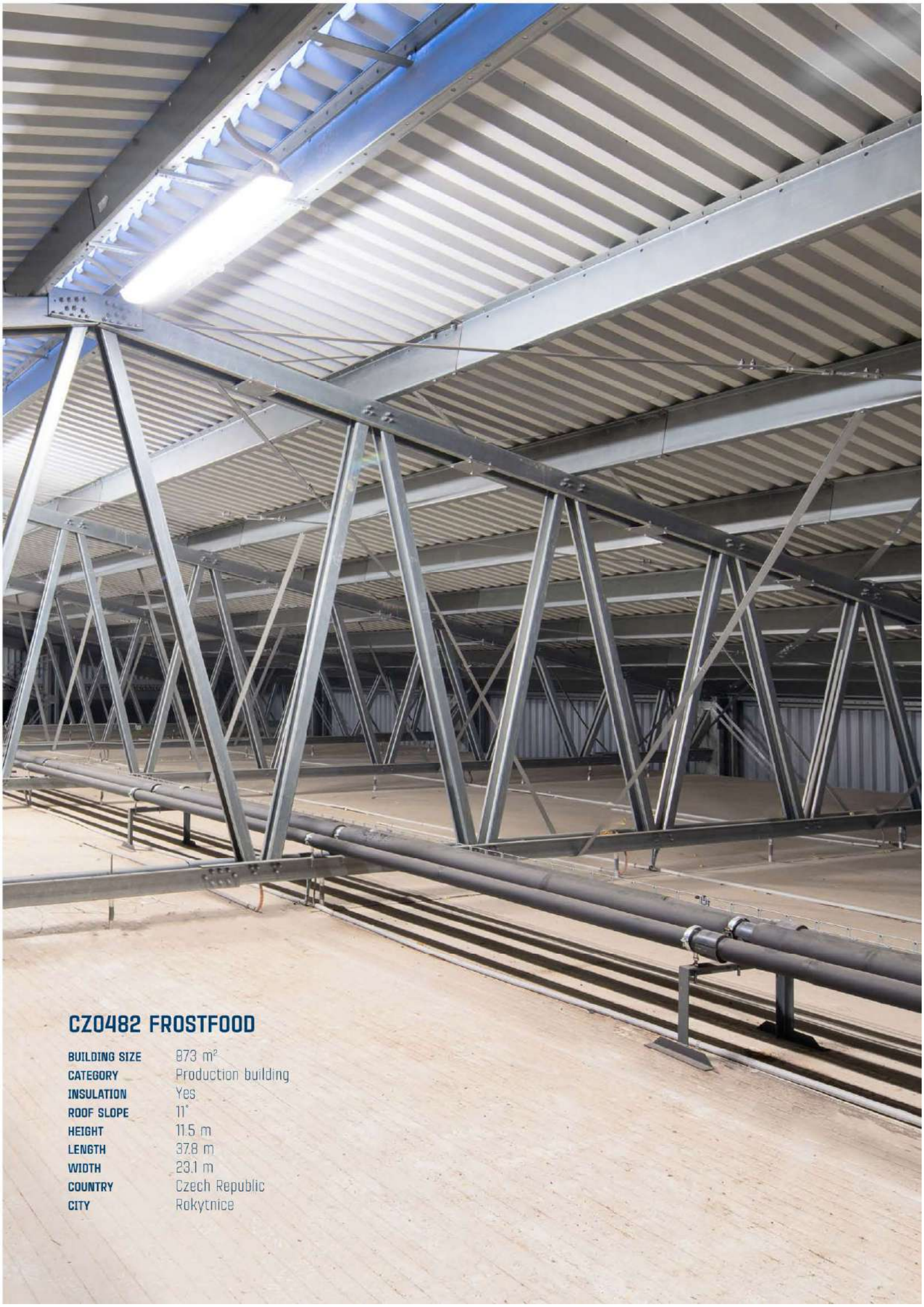
ROOF - TYPE 6
roof insulation - PUR sandwich panels



Heat transfer coefficients U_c [W/m²K]	PIR foam 8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.30	0.18	0.15
Insulation thickness (mm)*	80	120	160
U_c	0.27	0.18	0.14
U_0	0.27	0.18	0.14

* Insulation that meets required U_c

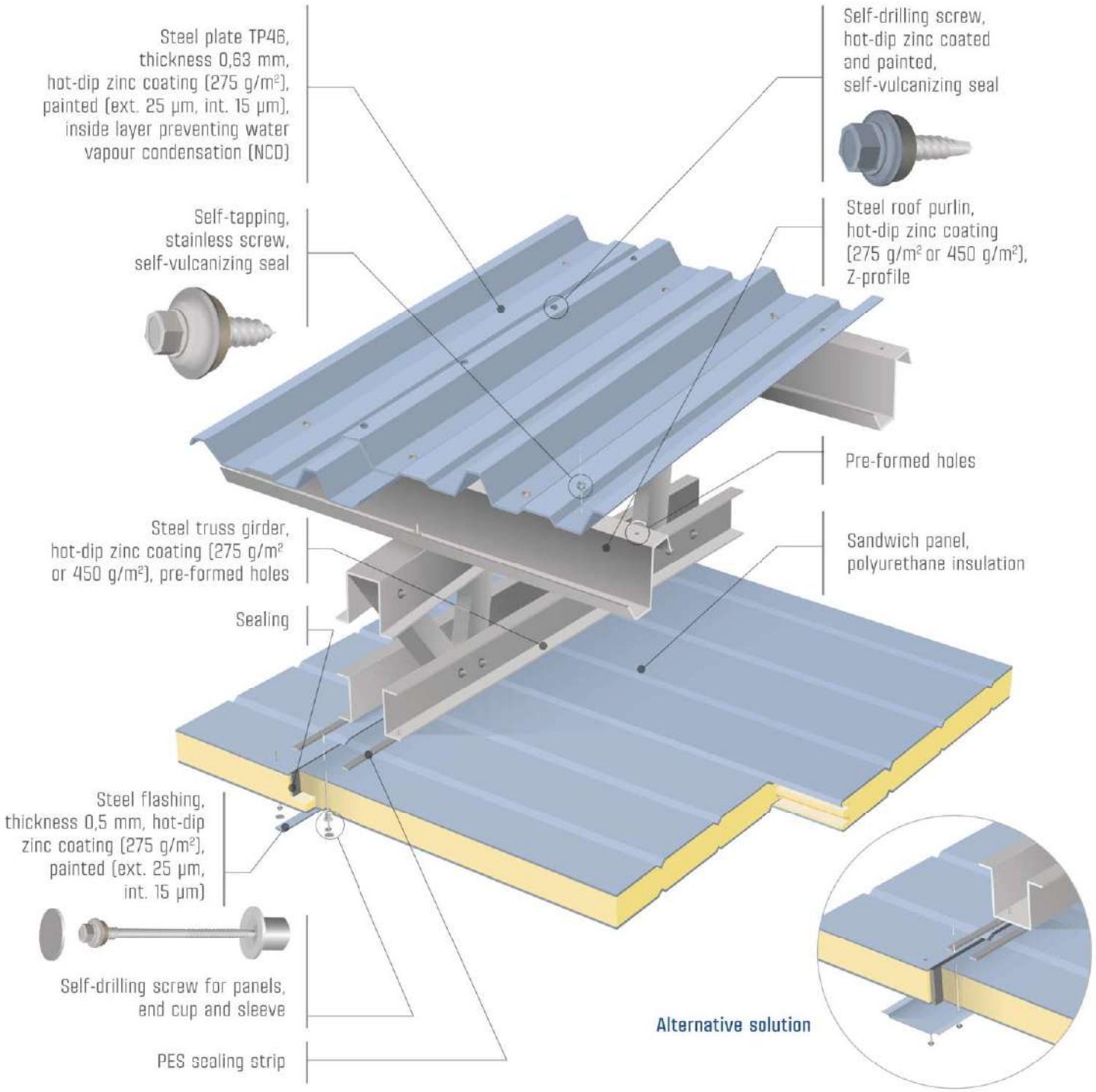
CE
EN 1090-1



CZ0482 FROSTFOOD

BUILDING SIZE	873 m²
CATEGORY	Production building
INSULATION	Yes
ROOF SLOPE	11°
HEIGHT	11.5 m
LENGTH	37.8 m
WIDTH	23.1 m
COUNTRY	Czech Republic
CITY	Rokytnice

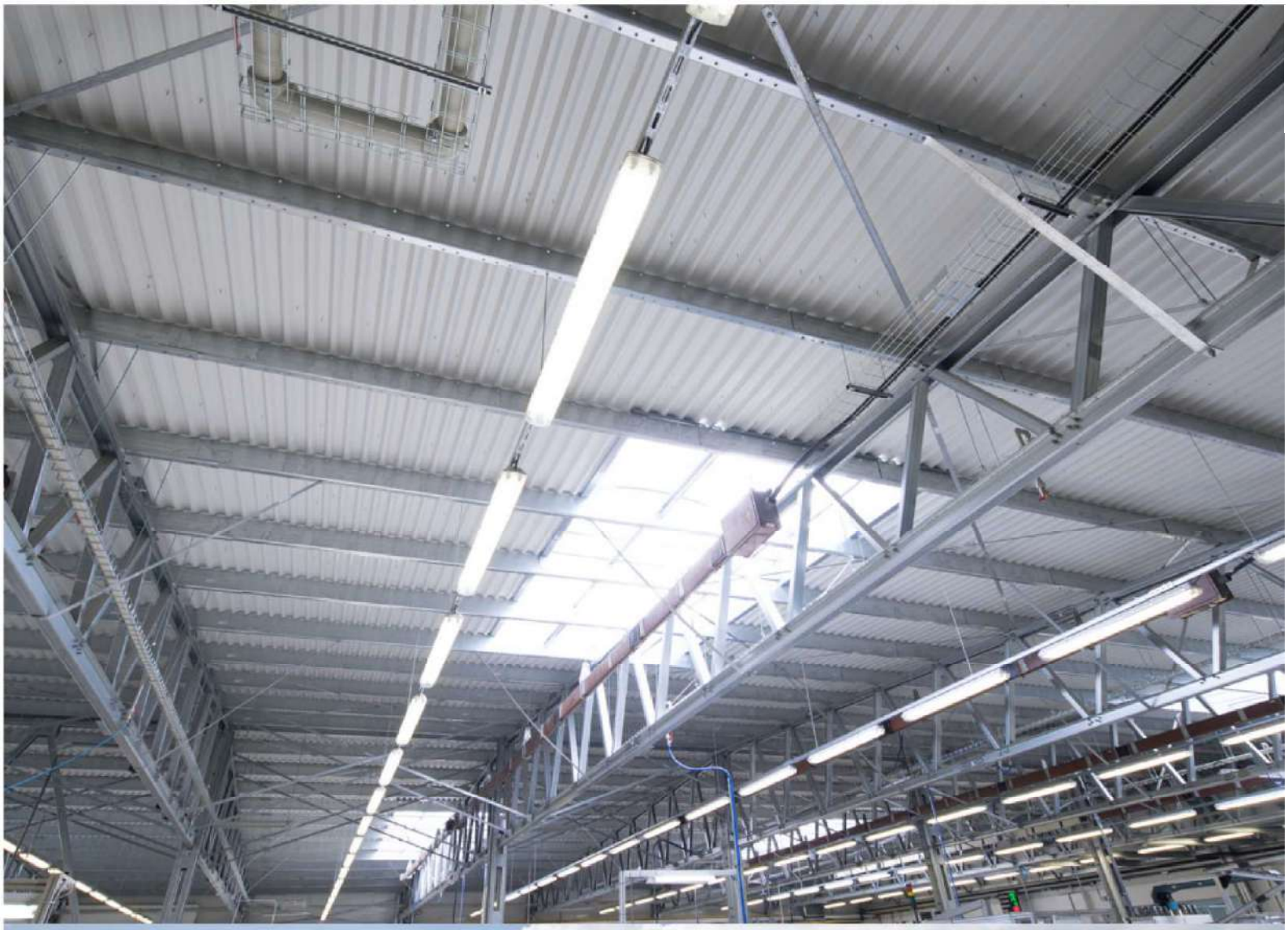
ROOF - TYPE 7W
roof insulation - PUR sandwich panels



Heat transfer coefficients U_c [W/m²K]	-30°C (deep freeze store)	0°C - 8°C (cold store)	>16°C (2017)	>16°C (2021)
U_c required	-	-	0.18	0.15
Insulation thickness (mm)*	160	100	120	160
U_c	0.14	0.22	0.18	0.14
U_0	0.14	0.22	0.18	0.14

* Insulation that meets required U_c

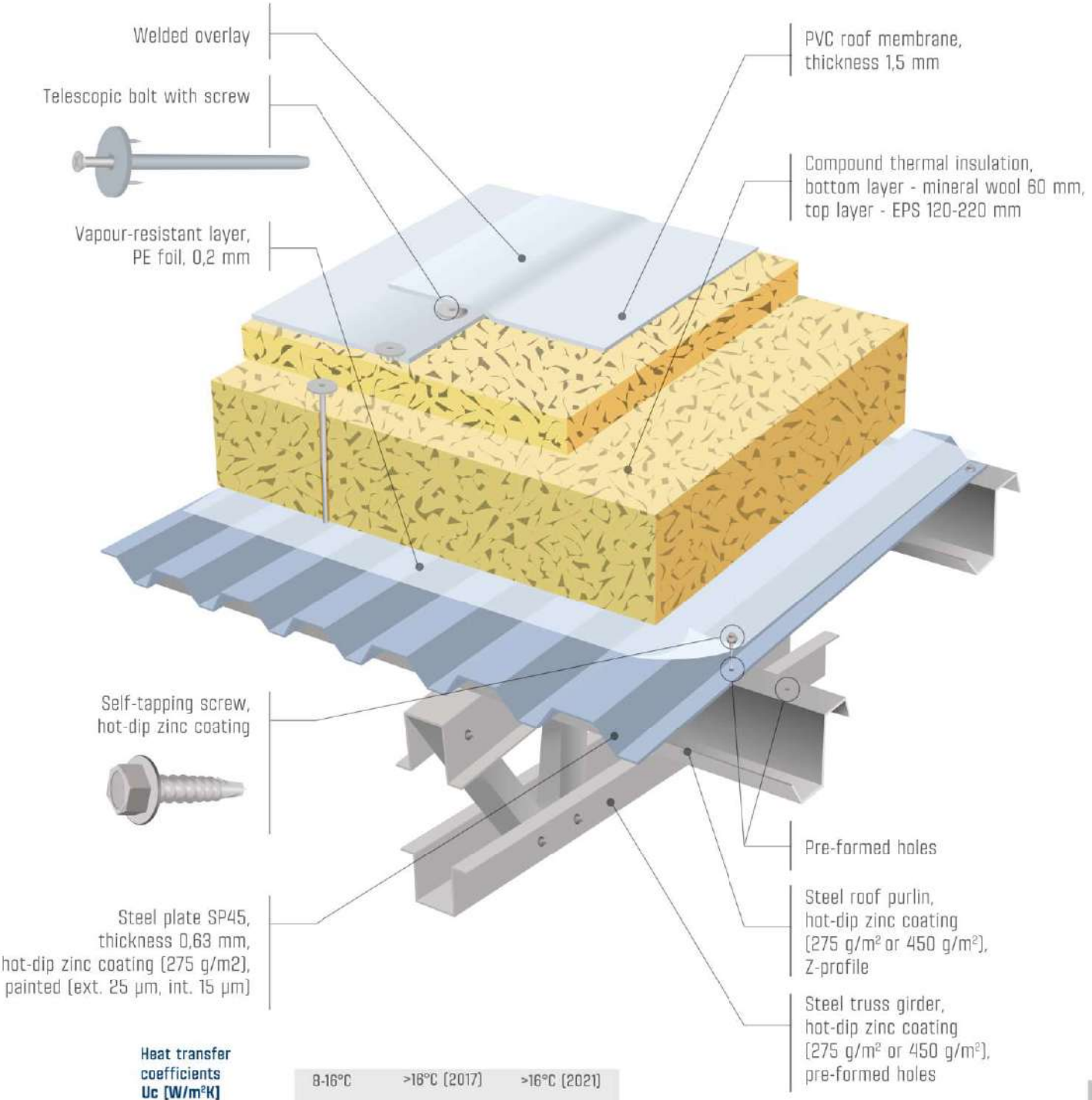
CE
EN 1090-1



CZ0705 COPRECI

BUILDING SIZE	1 520 m²
CATEGORY	Production building
INSULATION	Yes
ROOF SLOPE	4°
HEIGHT	3.7 m
LENGTH	42.0 m
WIDTH	36.2 m
COUNTRY	Czech Republic
CITY	Dvorce

ROOF - TYPE SP
roof insulation - compound cladding



Heat transfer coefficients Uc [W/m²K]	8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.30	0.18	0.15
Insulation thickness (mm)*	140	200	250
U_c	0.27	0.18	0.15
U_0	0.27	0.18	0.15

* Insulation that meets required U_c

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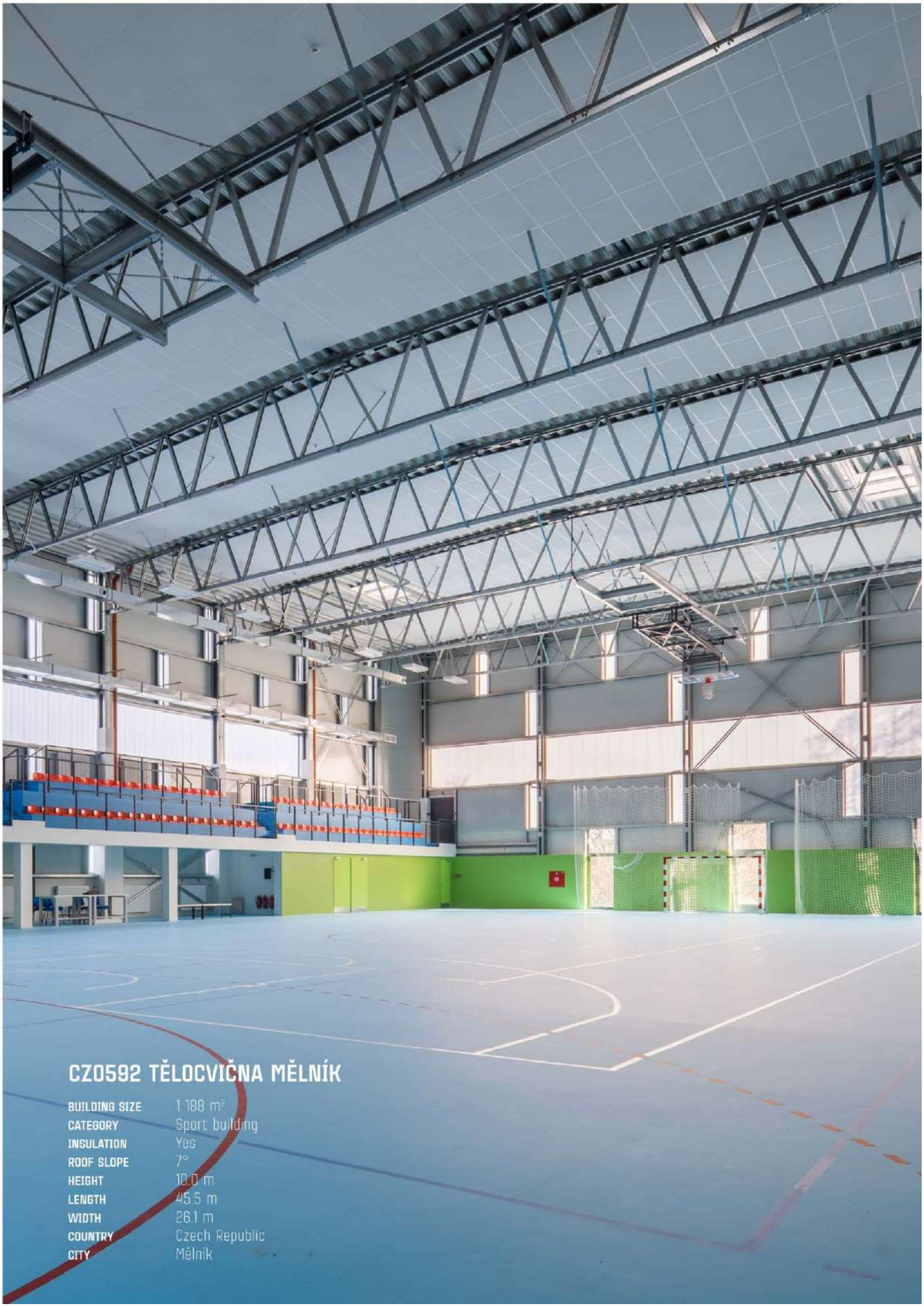
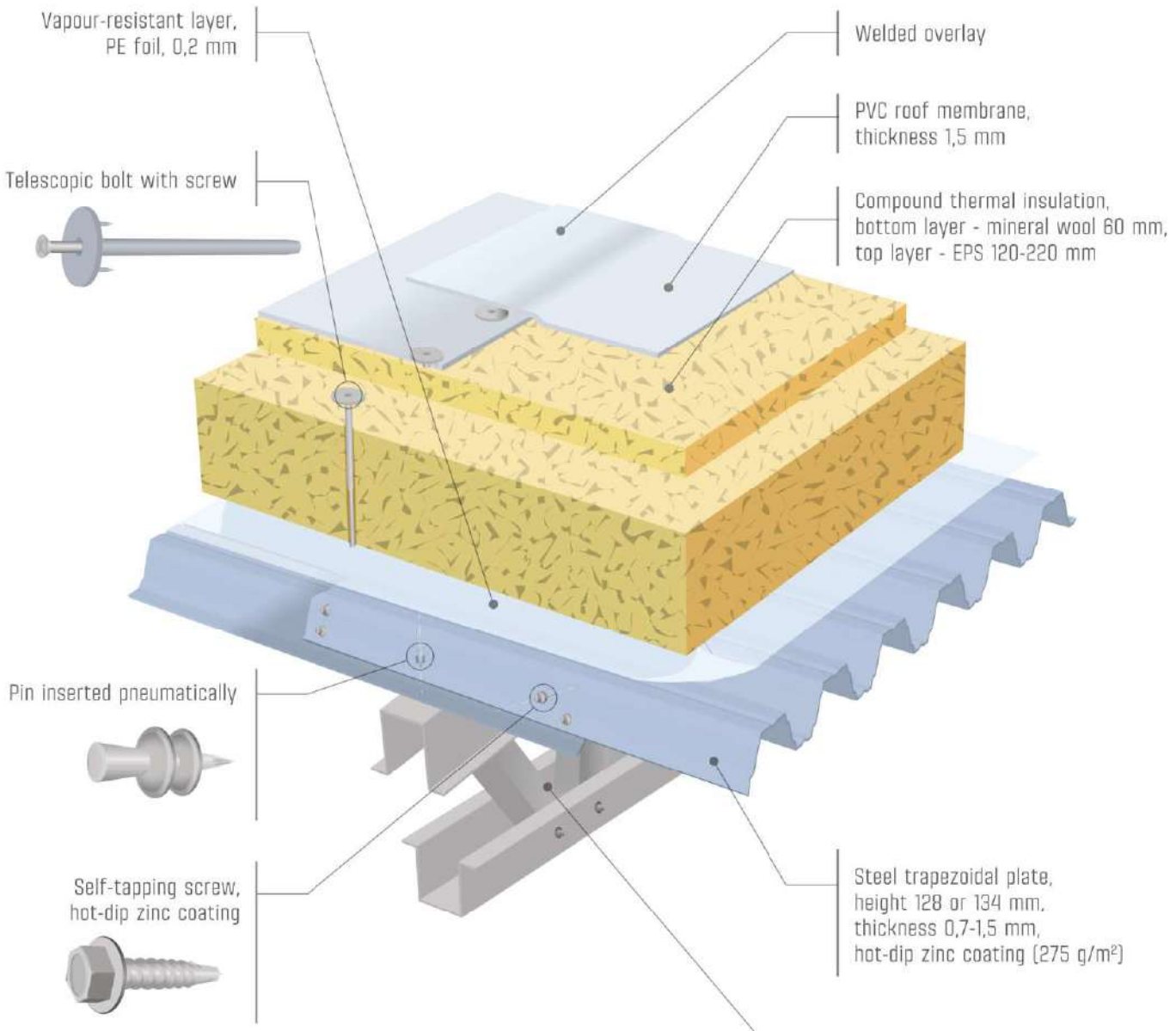


CZ0592 TĚLOCVIČNA MĚLNÍK

BUILDING SIZE	1 188 m²
CATEGORY	Sport building
INSULATION	Yes
ROOF SLOPE	7°
HEIGHT	10.0 m
LENGTH	45.5 m
WIDTH	26.1 m
COUNTRY	Czech Republic
CITY	Mělník

ROOF - TYPE SPH
roof insulation - compound cladding



Heat transfer coefficients Uc [W/m²K]	8-16°C	>16°C (2017)	>16°C (2021)
U_c required	0.30	0.18	0.15
Insulation thickness (mm)*	140	200	250
U_c	0.27	0.18	0.15
U_a	0.27	0.18	0.15

* Insulation that meets required U_c

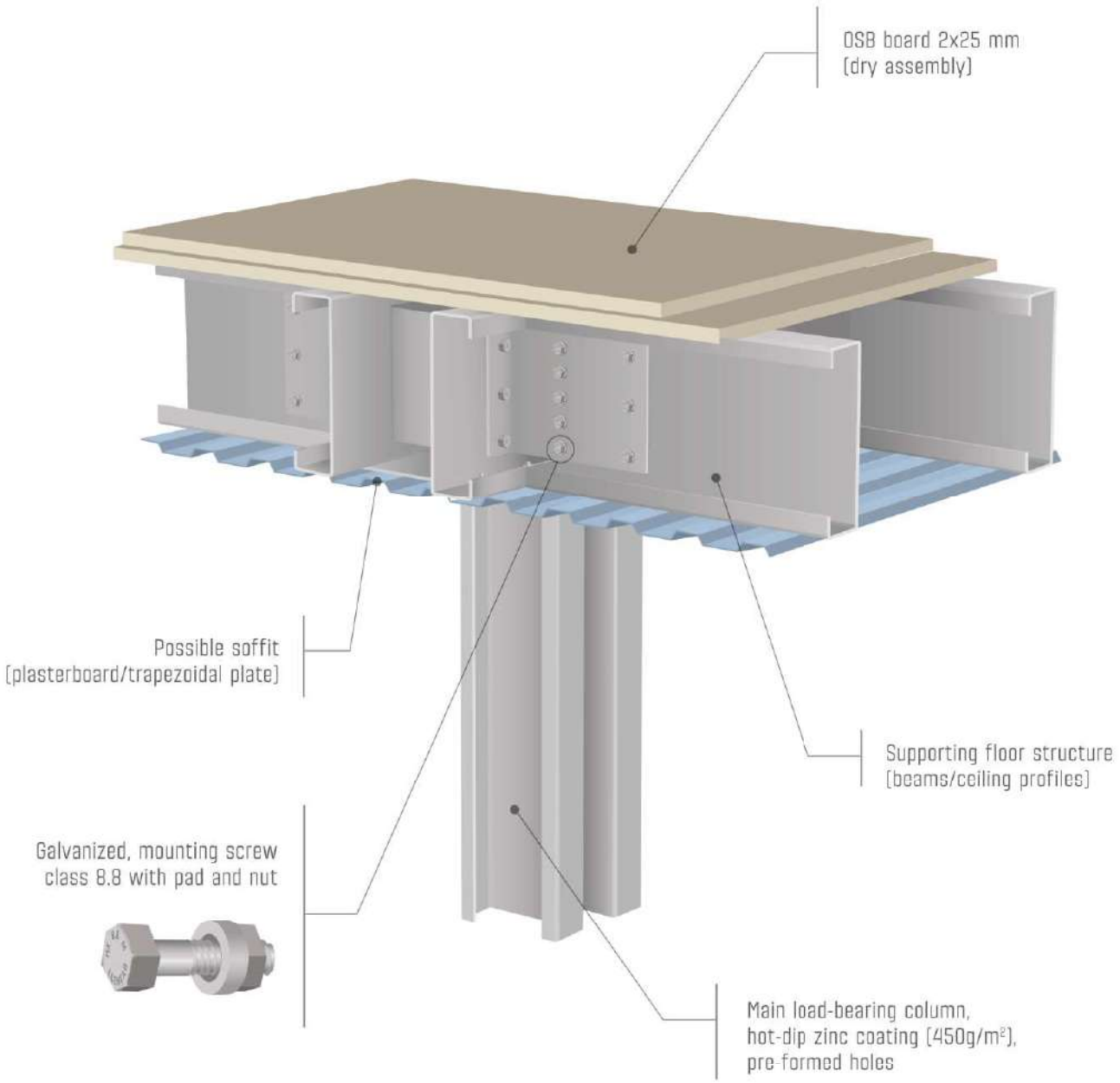
CE
EN 1090-1

CZ0321 STAUNER PŘÍSTAVBA AB

BUILDING SIZE	317 m²
CATEGORY	Office building
INSULATION	Yes
HEIGHT	9,0 m
LENGTH	20.7 m
WIDTH	15.3 m
COUNTRY	Czech Republic
CITY	Starý Kličov

FLOOR - OSB BOARDS
dry assembly

The floor consists of a system of ceilings profiles and beams, on which a load-bearing layer of OSB boards is laid. The boards can be laid in one to three layers, depending on the required load and the distance of the ceilings profiles.



LOADING AREAS CATEGORIES	A, B
SPAN	3 - 7 m
PERMISSIBLE LOADING	2,5 - 5,0 kN/m² (depending on the load-bearing capacity of OSB boards)
FLOOR SUPPORTING STRUCTURE THICKNESS	300 - 500 mm incl. beams/ceiling profiles

Note: Fire resistance can be ensured by a fire-resistant ceiling (plasterboard, mineral board). Consult LLENTAB technical department for any different uses.

CE
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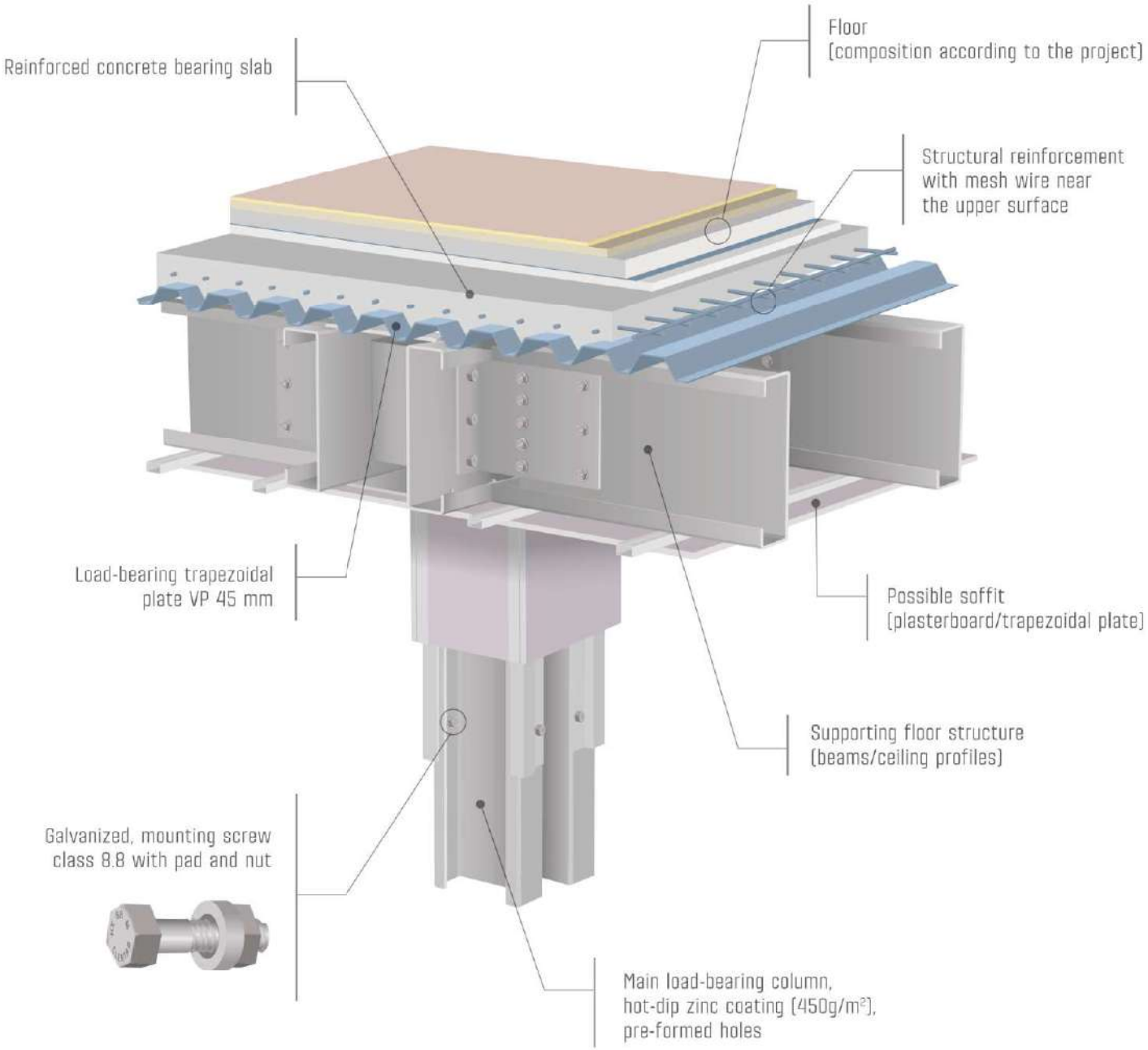
CZ0744

BUILDING SIZE	673 + 646 + 462 + 644 m²
CATEGORY	Storage building
INSULATION	Yes
ROOF SLOPE	4°
HEIGHT	5.7+4.5+6.9+7.3 m
LENGTH	51.0+27.5+27.5+51.1 m
WIDTH	13.2+23.5+16.8+12.6 m
COUNTRY	Czech Republic
CITY	Přelouč

FLOOR - LLENTAB
load-bearing trapezoidal plate

The floor consists of a system of ceilings profiles and beams, on which a load-bearing trapezoidal plate is placed. A concrete bearing layer is poured into the trapezoidal plate, which is structurally reinforced with mesh wire near the upper surface. The final composition of the floor is then created on the concrete layer.



LOADING AREAS CATEGORIES	A, B, C1
SPANS	3 - 7 m
PERMISSIBLE LOADING	2,5 - 7,0 kN/m²
FLOOR SUPPORTING STRUCTURE THICKNESS	370 - 650 mm incl. beams/ceiling profiles

Note: Fire resistance can be ensured by a fire resistance ceiling
Consult LLENTAB technical department for any different uses.

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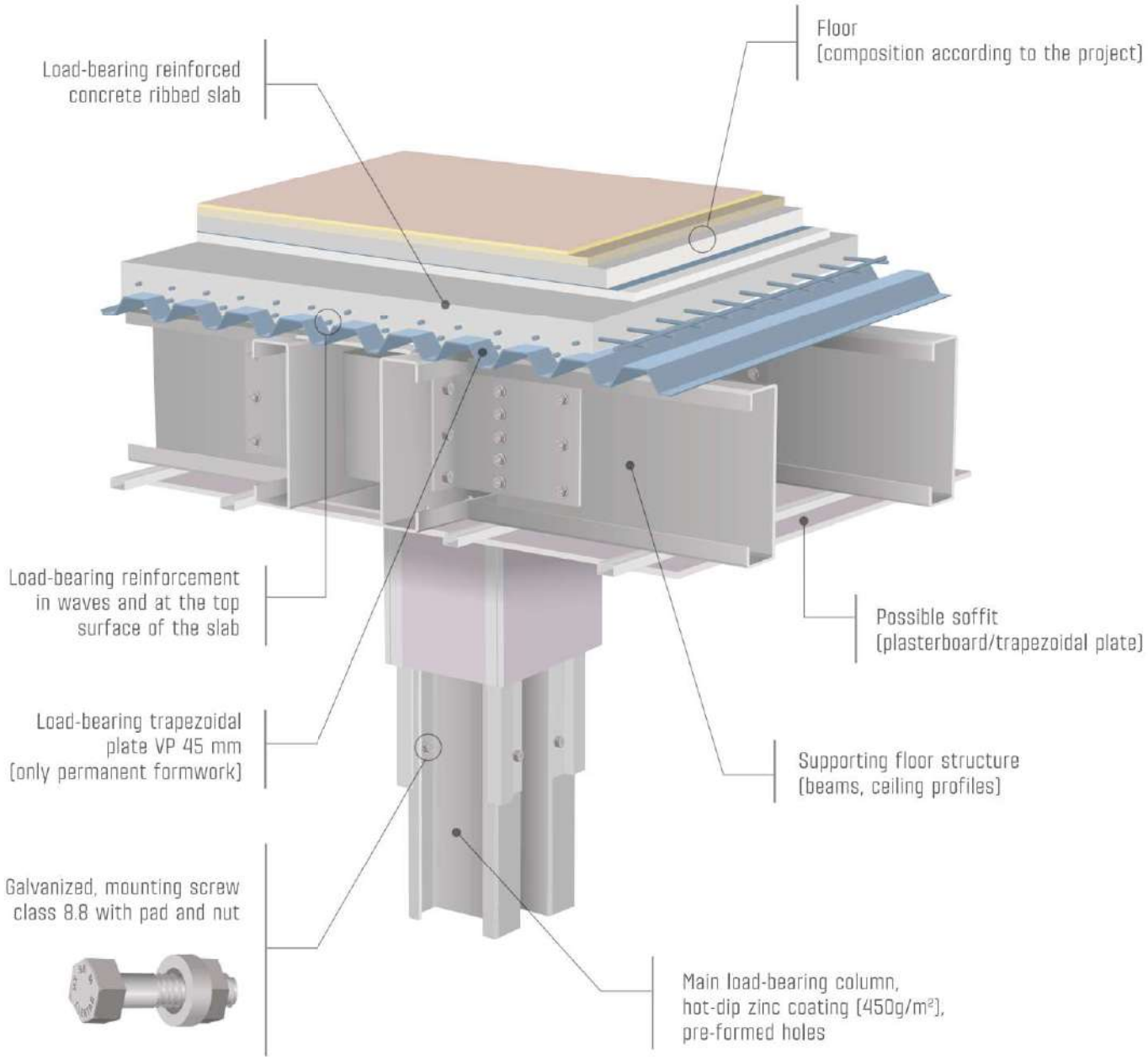
CZ1073 BOHEMIATEX LOGISTIKA

BUILDING SIZE	9 956 m²
CATEGORY	Storage building
INSULATION	Yes
ROOF SLOPE	3°
HEIGHT	10.7 m
LENGTH	79.96 m
WIDTH	124.51 m
COUNTRY	Czech Republic
CITY	Pohodlí

FLOOR - RC SLAB LOW
low trapezoidal plate (formwork)

The floor consists of a system of ceiling profiles and beams, on which a load-bearing concrete ribbed slab is poured. The slab is reinforced at the top and bottom surface (in waves). The slab is poured into the permanent formwork made of low trapezoidal metal plate. The final composition of the floor is then created on the concrete slab.



LOADING AREAS CATEGORIES	A, B, C1-C5, D1, E1, F
SPANS	3 - 7 m
PERMISSIBLE LOADING	2,5 - 5,0 kN/m²
FLOOR SUPPORTING STRUCTURE THICKNESS	420 - 650 mm incl. beams/ceiling profiles

Note: Fire resistance can be ensured by a fire resistance ceiling.
Consult LLENTAB technical department for any different uses.

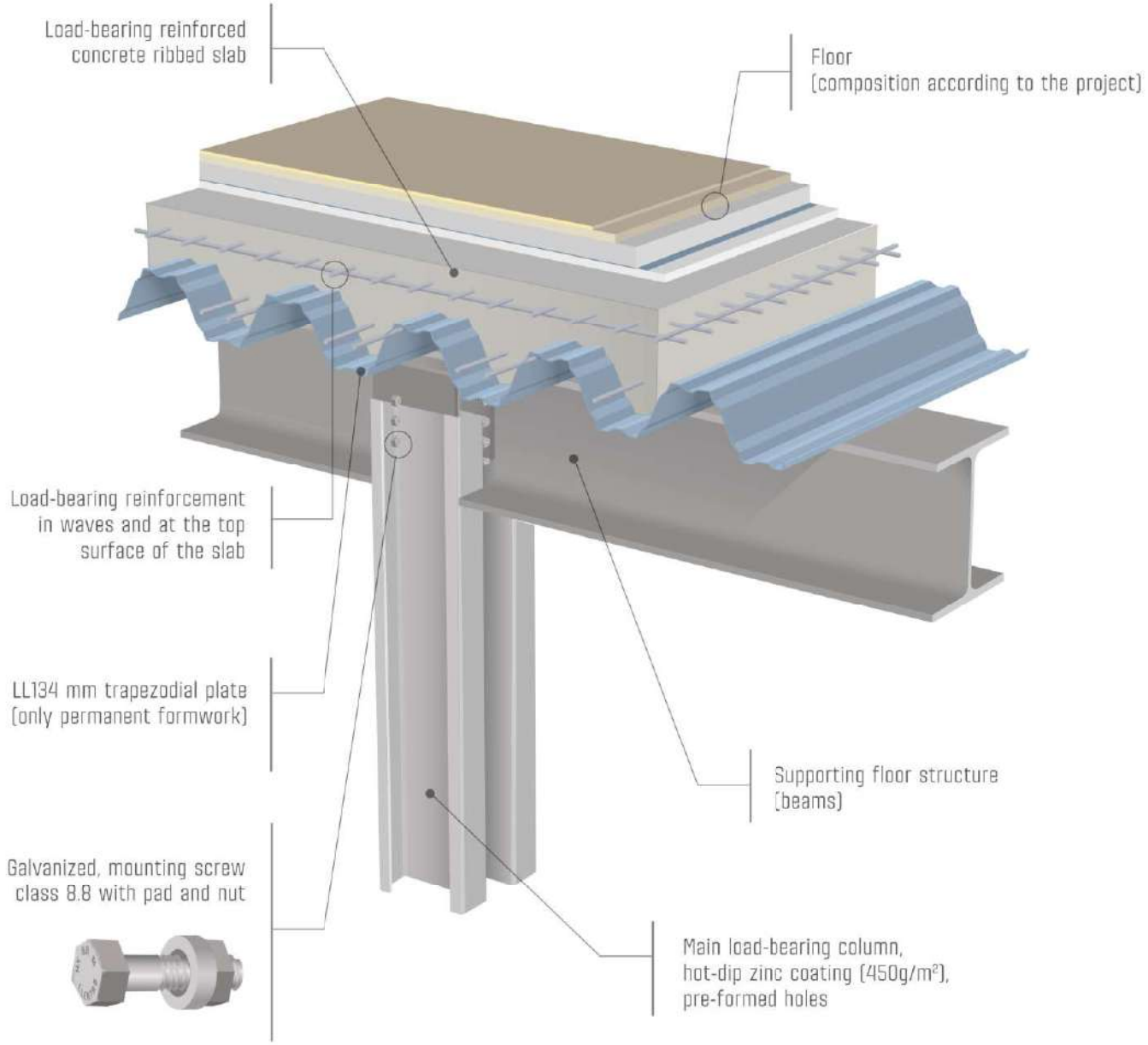
CE
EN 1090-1

SK0146 SL TECH

BUILDING SIZE	227 m²
CATEGORY	Office building
INSULATION	Yes
ROOF SLOPE	4°
HEIGHT	6.8 m
LENGTH	15.1 m
WIDTH	15.0 m
COUNTRY	Slovakia
CITY	Liptovský Mikuláš

FLOOR - RC SLAB HIGH
high trapezoidal plate (formwork)

The floor consists of hot-rolled steel beams in the shape of IPE, HEA or HEB, which are anchored to the columns. A load-bearing reinforced concrete ribbed slab is placed on the beams. The slab is cast into trapezoidal steel plates serving as permanent formwork.



LOADING AREAS CATEGORIES	A, B, C1-C5, D1, E1, F
SPANS	3 - 7 m
PERMISSIBLE LOADING	2,5 - 7,5 kN/m²
FLOOR SUPPORTING STRUCTURE THICKNESS	500 - 600 mm

Note: Fire resistance can be ensured by the structural design of the reinforced concrete slab (reinforcement cover), structural assessment of steel beams, fire-resistant soffit or fire-resistant covering only steel beams or fire-retardant painting of beams only. Consult LLENTAB technical department for any different uses.

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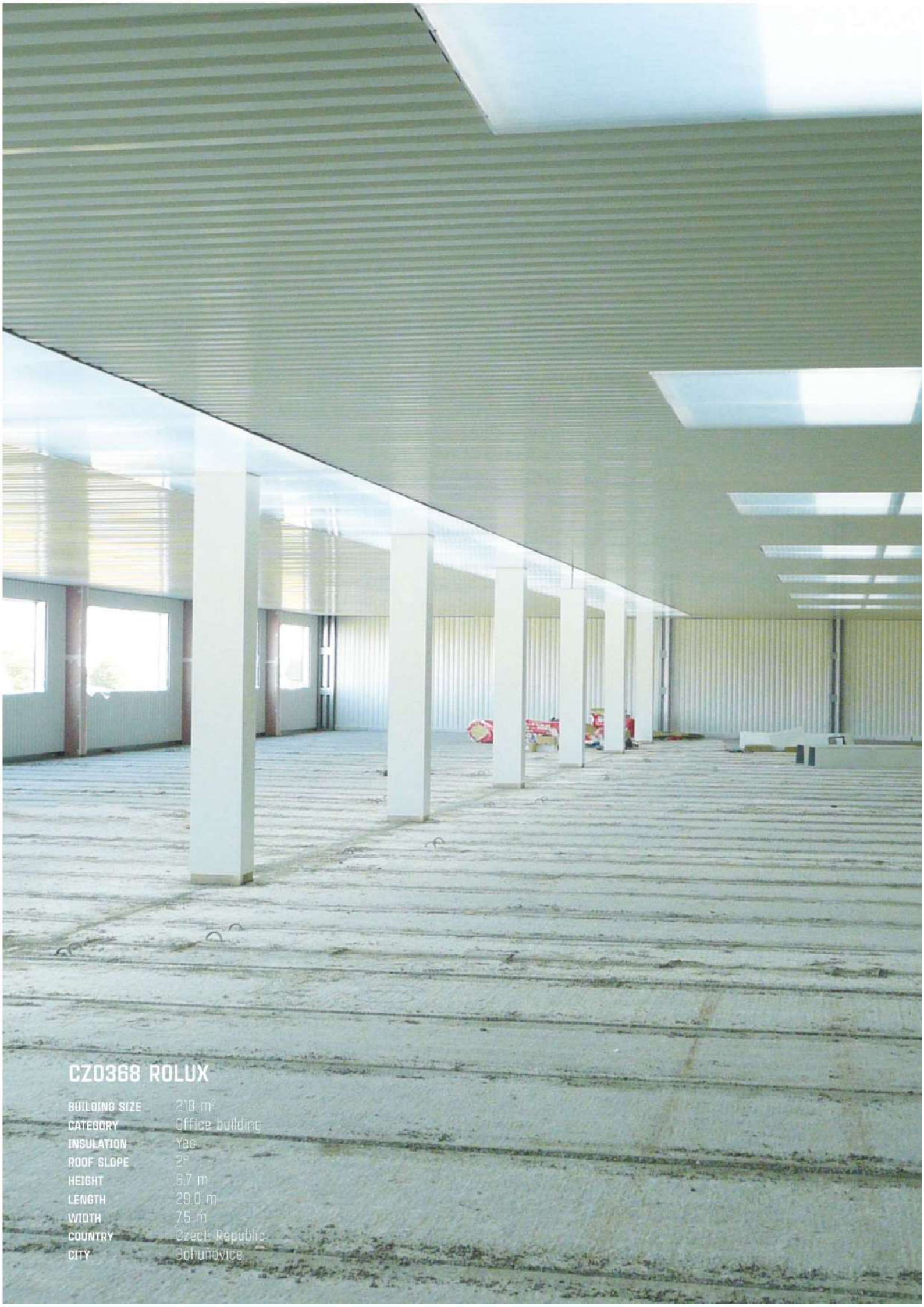
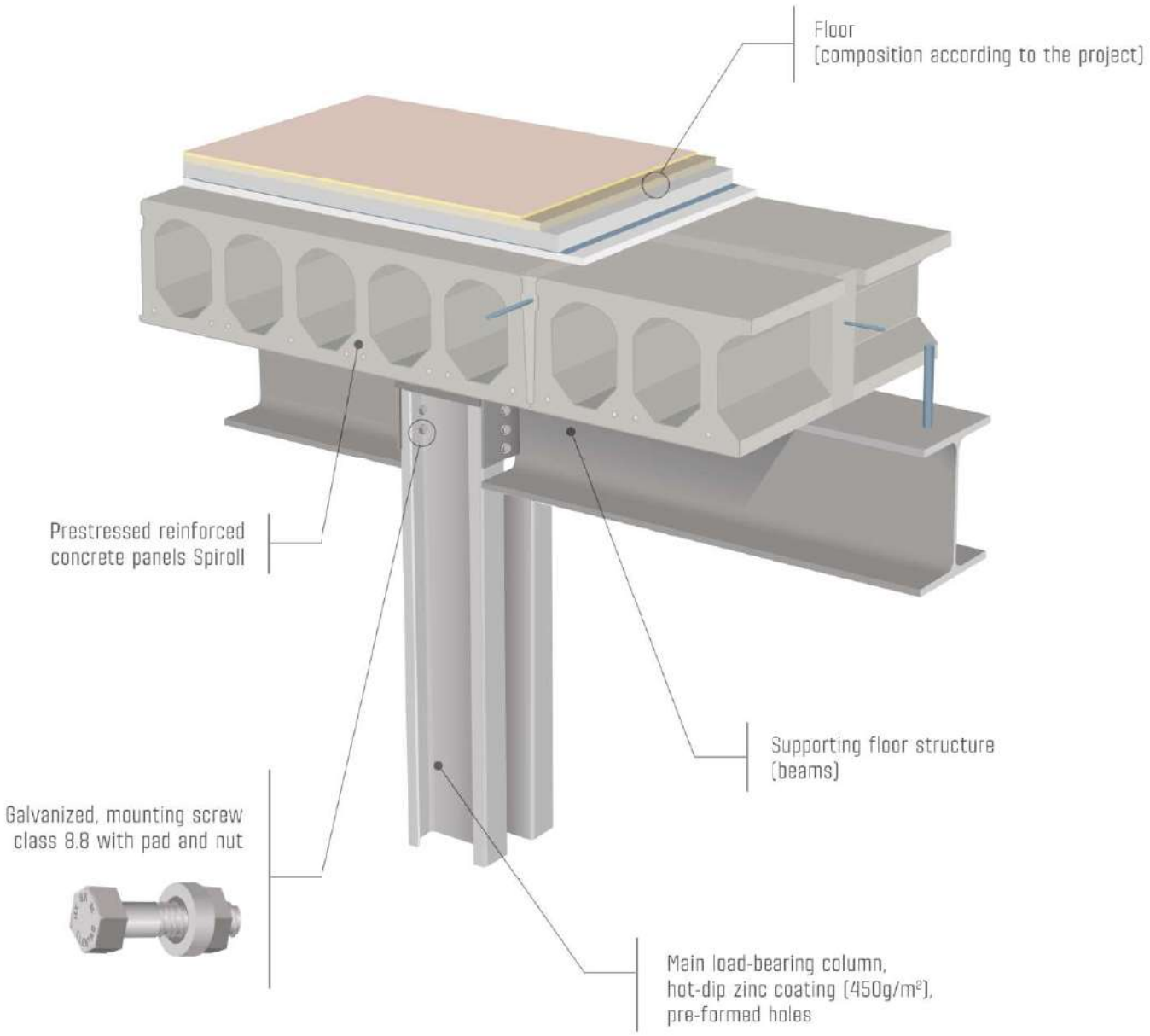


CZ0368 ROLUX

BUILDING SIZE	218 m²
CATEGORY	Office building
INSULATION	Yes
ROOF SLOPE	2°
HEIGHT	6.7 m
LENGTH	29.0 m
WIDTH	7.5 m
COUNTRY	Czech Republic
CITY	Bohunovice

FLOOR - SPIROLL
prestressed reinforced concrete panels

The floor consists of hot-rolled steel beams in the shape of IPE, HEA or HEB, which are anchored to the columns. Supporting prestressed reinforced concrete panels SPIROLL are laid on the beams.



LOADING AREAS CATEGORIES	A, B, C1-C5, D1, E, F
SPANS	3 - 12 m
PERMISSIBLE LOADING	2,5 - 10,0 kN/m²
FLOOR SUPPORTING STRUCTURE THICKNESS	160 - 400 mm excl. beams, 410 - 750mm incl. beams

Note: Fire resistance can be ensured by the structural design of the panels, structural assessment of steel beams, fire-resistant soffit or fire-resistant covering only steel beams or fire-retardant painting of beams only.
Consult LLENTAB technical department for any different uses.

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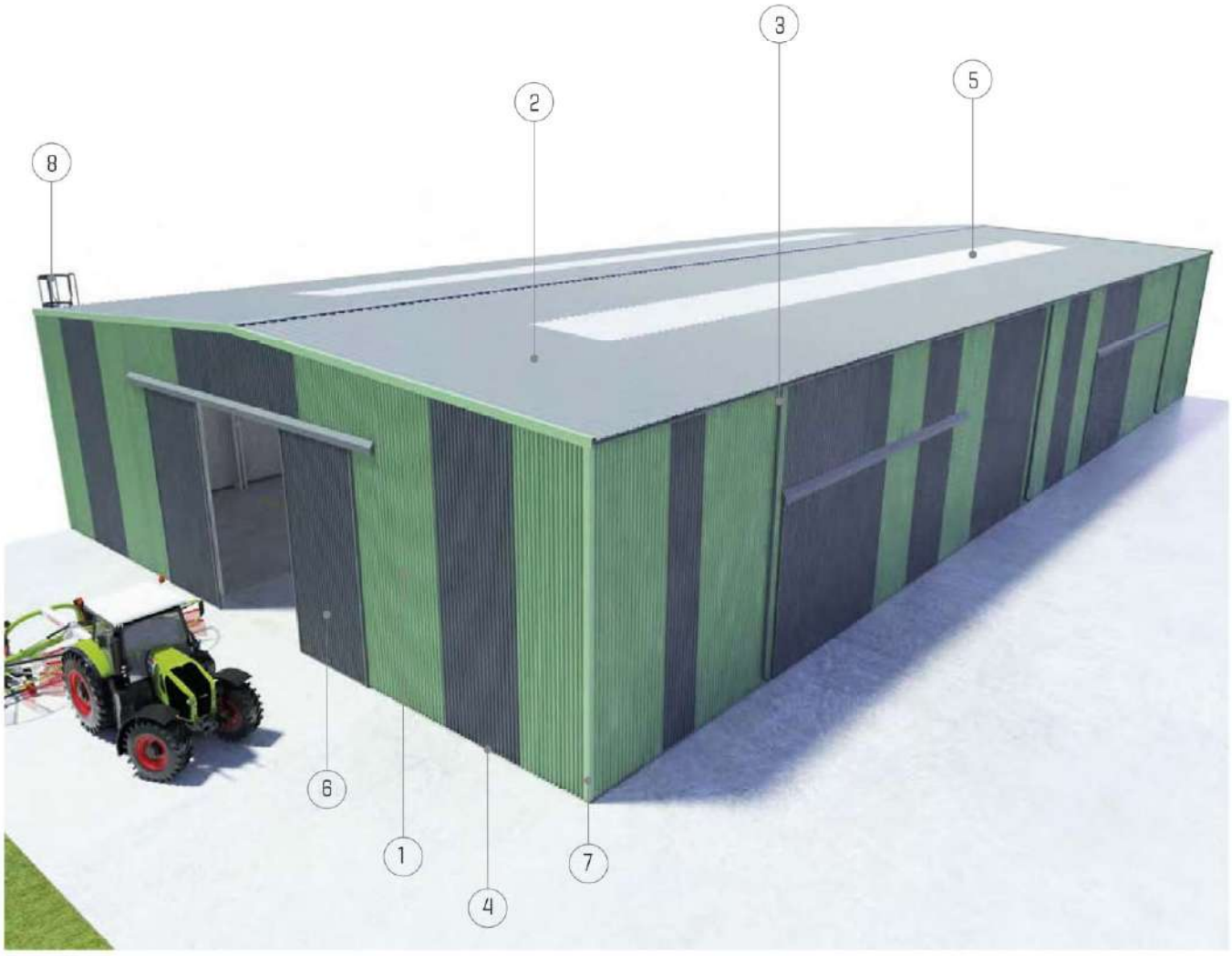
WALL - TYPE 0
ROOF - TYPE 0



1. Steel trapezoidal plate VP45, thickness 0,5 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm)
2. Steel trapezoidal plate TP46 with NCD, thickness 0,63 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm)
3. Gutter and downpipes
4. Foundation drip edge
5. Roof skylights
6. Outside slideside gate
7. Corner flashing
8. Ladder

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WALL - TYPE 3
ROOF - TYPE 5

1. Steel trapezoidal plate VP45, thickness 0,5 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm)
2. Steel trapezoidal plate TP46, thickness 0,63 mm, hot-dip coating (275 g/m²), painted (ext. 25 µm, int. 15 µm),
3. Gutter and downpipes
4. Canopy
5. Plastic or aluminum windows
6. Roof skylights and smoke exhaust vents
7. Overhead gate
8. Loading dock
9. Glass facade
10. Ladder

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WALL - TYPE 6
ROOF - TYPE 6

1. Wall sandwich panel
2. Roof sandwich panel
3. Gutter and downpipes
4. Foundation drip edge
5. Corner flashing
6. Roof skylights and smoke exhaust vents
7. Overhead gate
8. Steel doors
9. Plastic or aluminium windows
10. Ladder

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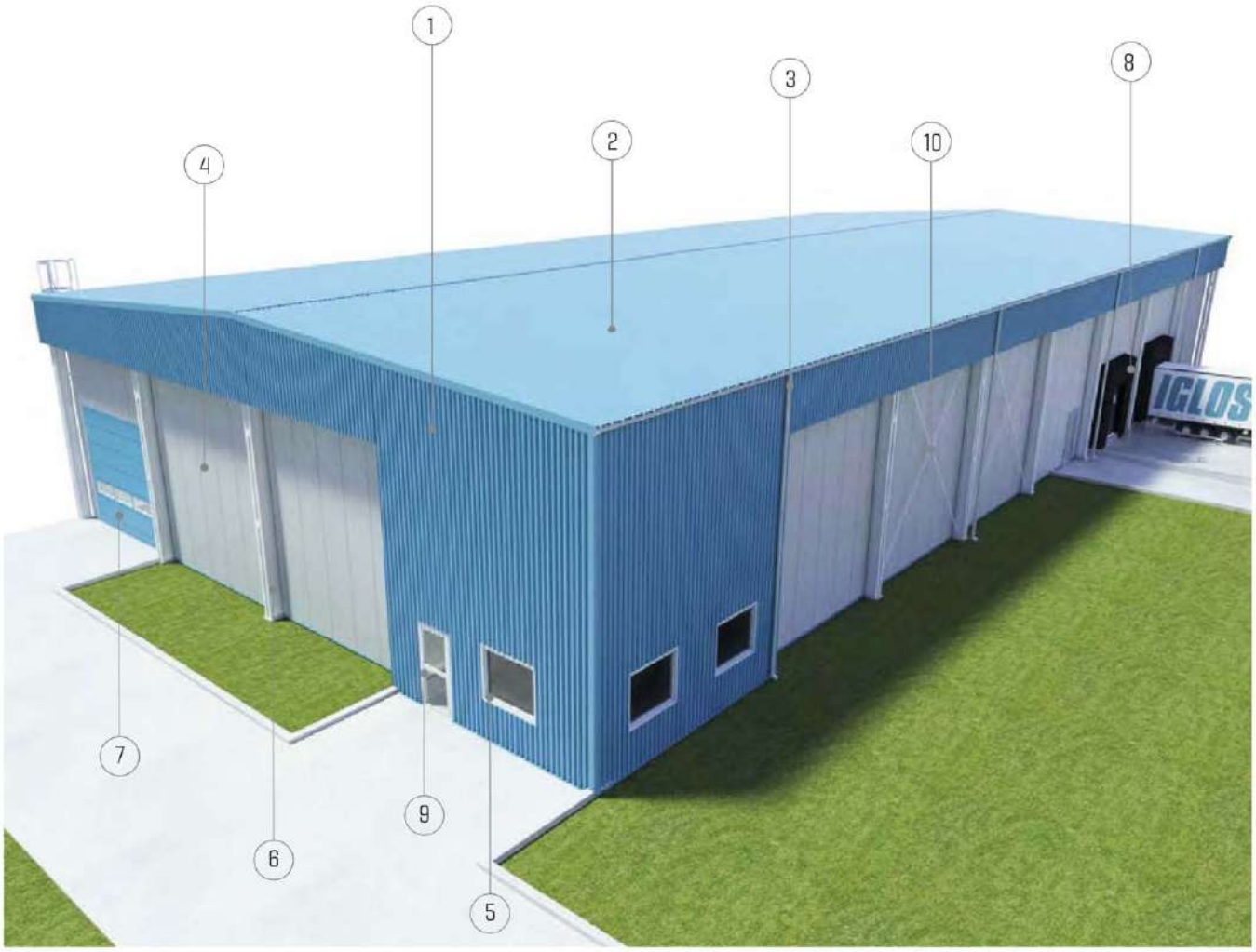
WALL - TYPE 6W
ROOF - TYPE 7W



1. Steel trapezoidal plate VP45, thickness 0,5 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm)
2. Steel trapezoidal plate TP46, thickness 0,63 mm, hot-dip zinc coating (275 g/m²), painted (ext. 25 µm, int. 15 µm),
3. Gutter and downpipes
4. Refrigeratory panel
5. Plastic or aluminum windows
6. Main load-bearing column, hot-dip zinc coating (450 g/m²)
7. Overhead gate
8. Loading dock
9. Steel doors
10. Bracing

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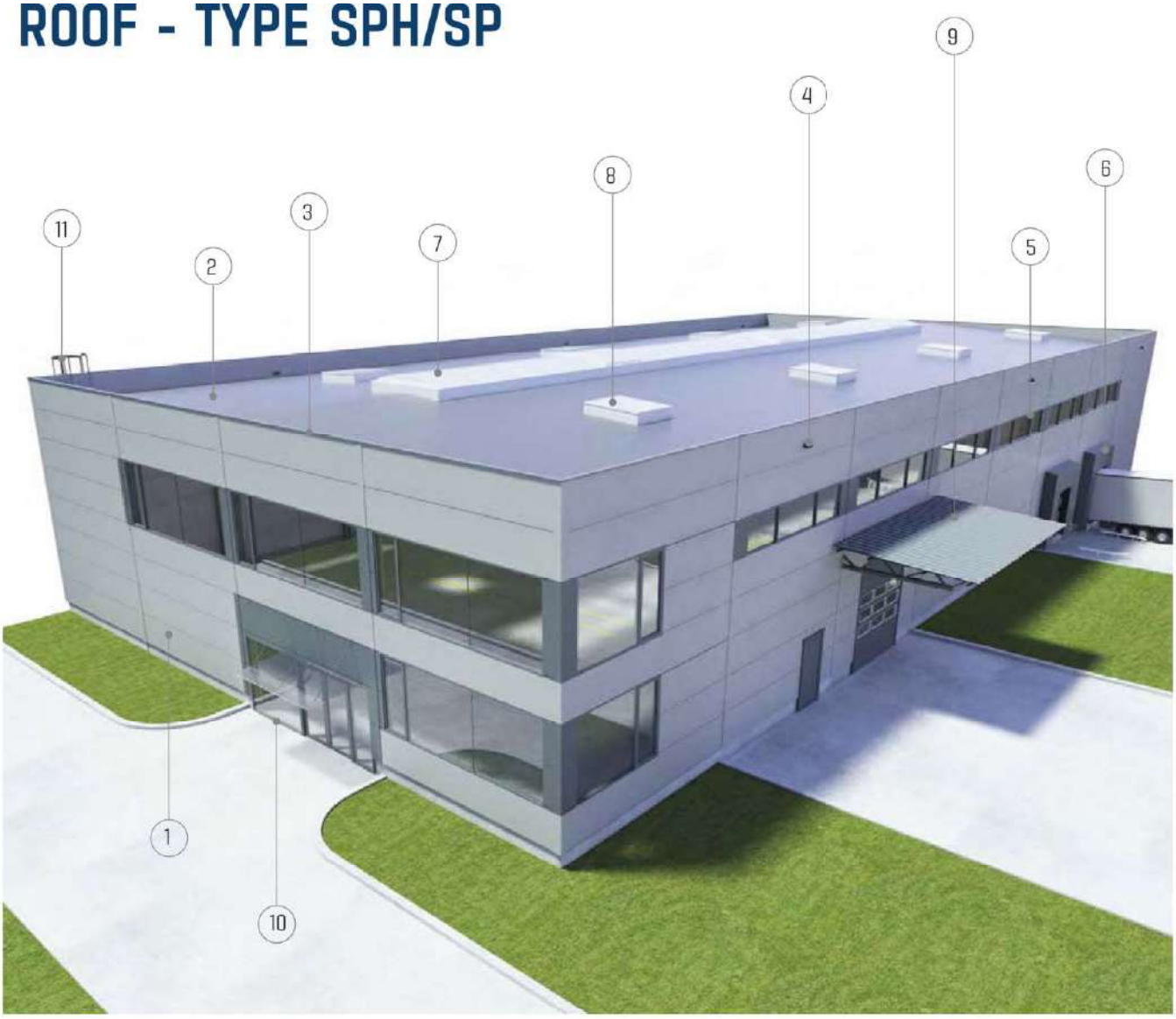
WALL - TYPE 7
ROOF - TYPE SPH/SP



1. Wall sandwich panel
2. PVC roof membrane
3. Attic
4. Roof outlet
5. Wall light / windows
6. Loading dock
7. Roof skylights and smoke exhaust vents
8. Smoke exhaust vents
9. Canopy
10. Glass facade
11. Ladder

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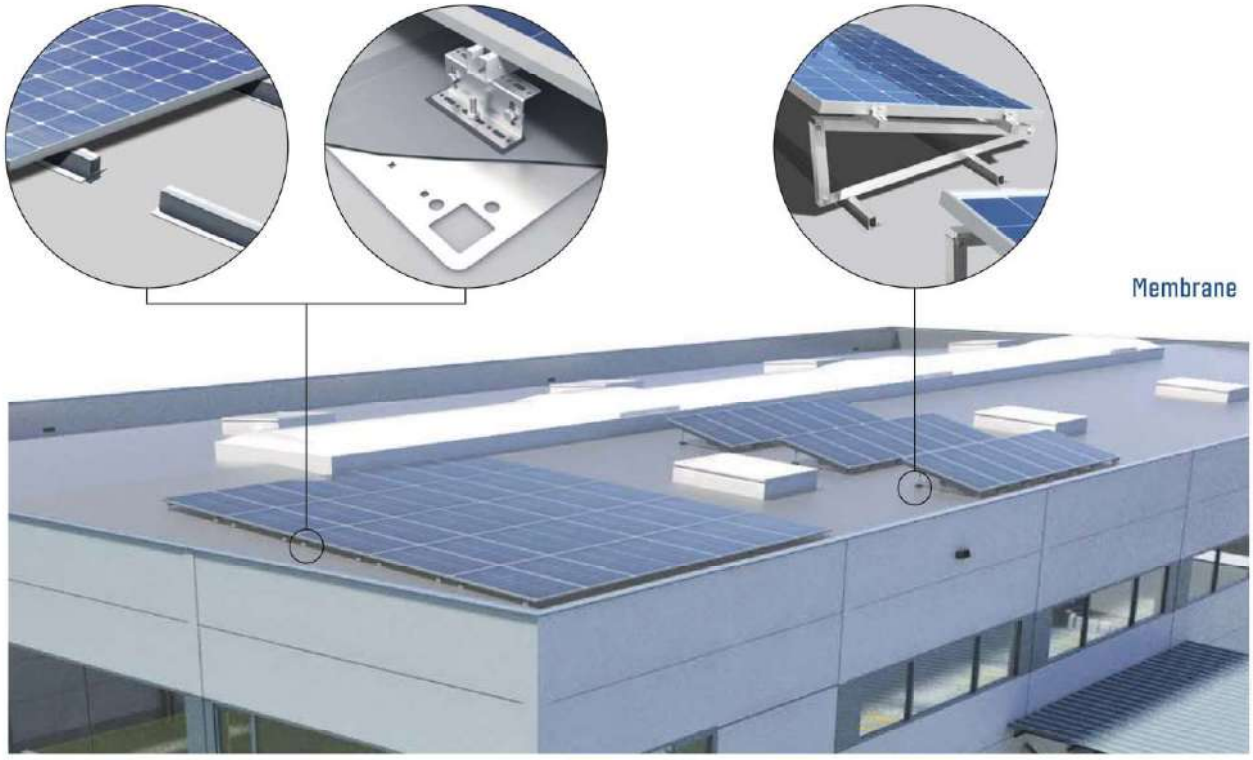
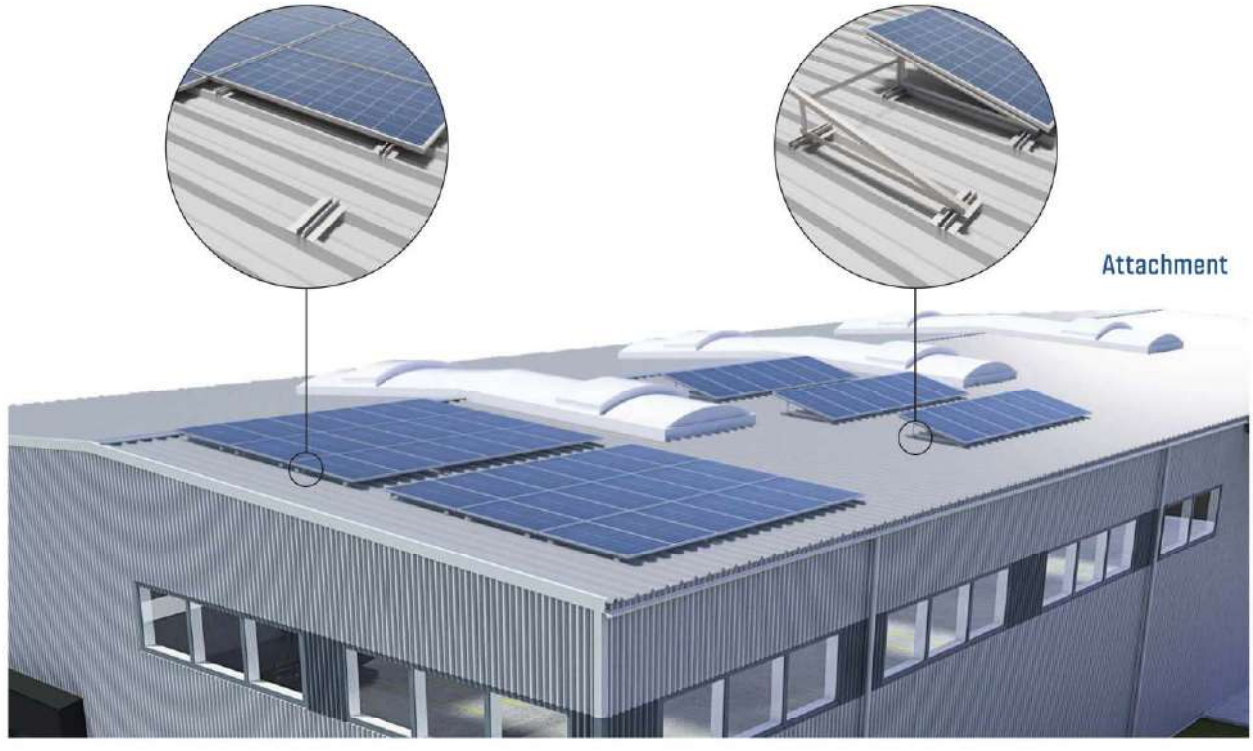
PHOTOVOLTAIC PANELS SOLUTION





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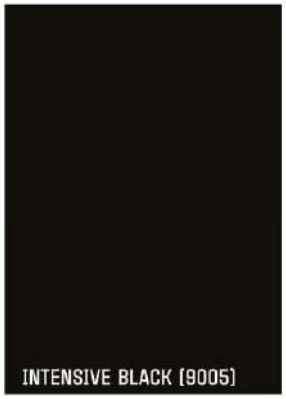
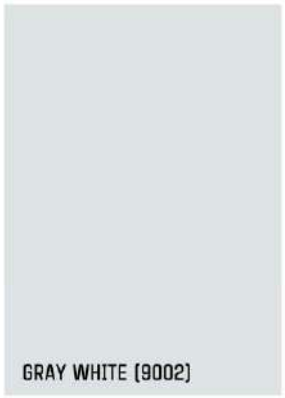
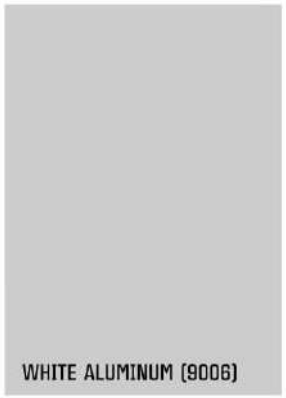
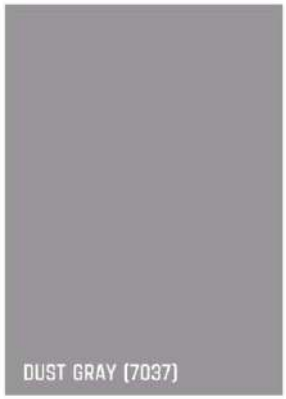
COLOUR GUIDE - GUTTERS AND PIPES

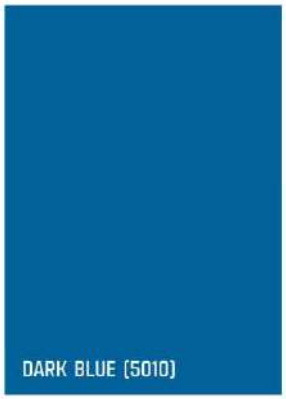
Standard

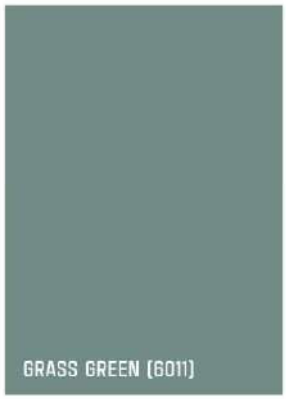












Gutters and downpipes are a product of KJG. Due to the printing technology, the final colours supplied may differ slightly from the printed swatches. (04/2019)

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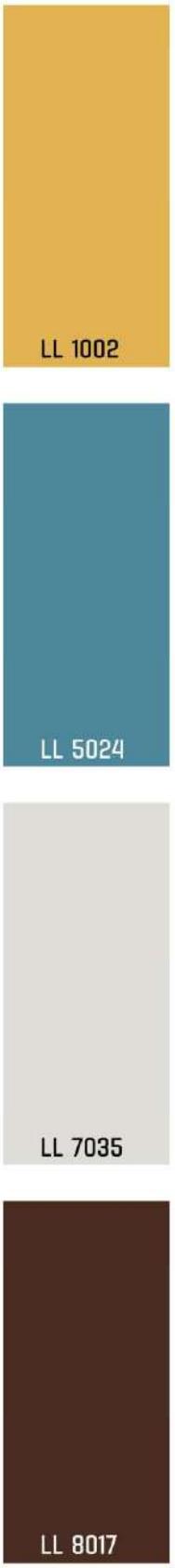
COLOUR GUIDE - CLADDING

Standard

Interiér

Standard +



Nova Accent +

LLENTAB colours do not exactly match RAL colors. Due to the printing technology, the final colours supplied may differ slightly from the printed swatches. (04/2019)

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PHONE +48 571 407 964
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