

NO	DESCRIPTION
1	Civil Works & Architectural
2	Landscape
3	Mechanical Works
4	Electrical
GRAND TOTAL	
	Civil Works & Architectural
1	Bitlis
2	Erciř
3	Muř
Grand Total	
	Landscape
1	Bitlis
2	Erciř
3	Muř
Grand Total	
	Mechanical Works
1	Bitlis
2	Erciř
3	Muř
Grand Total	
	Electrical
1	Bitlis
2	Erciř
3	Muř
Grand Total	

AMOUNT (€)
0,00
0,00
0,00
0,00
0,00

Amount (€)
0,00
0,00
0,00
0,00

Amount (€)
0,00
0,00
0,00
0,00

Amount (€)
0,00
0,00
0,00
0,00

Amount (€)
0,00
0,00
0,00
0,00

No	Dwg. No
1	ARC1
2	ARC2
3	ARC3
4	ARC4
5	ARC5
6	ARC6
7	ARC7
8	ARC8
9	ARC9
10	ARC10
11	ARC11
12	ARC12
13	ARC13
14	ARC14
15	ARC15
16	ARC16
17	ARC17
18	ARC18
19	ARC19
20	ARC20
21	ARC21
22	ARC22
23	ARC23
24	ARC24
25	ARC25
26	ARC26
27	ARC27
28	ARC28
29	ARC29
30	ARC30
31	ARC31
32	ARC32
33	ARC33
34	ARC34
35	ARC35
36	ARC36
37	ARC37

38	ARC38
39	ARC39
40	ARC40
45	ARC45
47	ARC47
48	ARC48
49	ARC49
50	ARC50
51	ARC51
53	ARC53
54	ARC54
55	ARC55
56	ARC56
57	ARC57
58	ARC58
59	ARC59
60	ARC60
61	ARC61
62	ARC62
63	ARC63

No	Dwg. No
1	ARC 64
2	ARC 65
3	ARC 66
4	ARC 67
5	ARC 68
6	ARC 69
7	ARC 70
8	ARC 71
9	ARC 72
10	ARC 73
11	ARC 74
12	ARC 75
13	ARC 76
14	ARC 77

15	ARC 78
16	ARC 79
17	ARC 80
18	ARC 81
19	ARC 82
20	ARC 83
21	ARC 84
22	ARC 85
23	ARC 86
24	ARC 87
25	ARC 88
26	ARC 89
27	ARC 90
28	ARC 91
29	ARC 92
30	ARC 93
31	ARC 94
32	ARC 95
33	ARC 96
34	ARC 97
35	ARC 98
36	ARC 47
37	ARC 99
38	ARC 100
39	ARC 101
40	ARC 102
41	ARC 103

BITLİS ATELIER CONSTRUCTION CIVIL-ARCHITECTURAL WORKS of ATELIER and ADMINISTF

Definition
Soft rock excavation without using any kind of explosive material. (free excavation).
Sand providing, laying, manual laying, irrigation and compaction
Drainage by providing gravel
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
Replacement of deformed concrete reinforcing steel mesh of 1,500-3,000 kg / m ² (including 3,000 kg / m ²)
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Prefabricated Reinforced Concrete Manufacturing and Substitution Using C30/37 Ready Mixed Concrete
Construction of flat surface reinforced concrete formwork with Plywood
Fully secure, scaffolding for ceilings made of pre-fabricated components. (0.00-21.50 m)
To supply and install HDPE based drainage and protection boards on the waterproofing in basement walls (150? Compressive strength <200 KN / m ²).
Providing and installation of pvc-based corrugated drainage pipe with a nominal diameter of Ø 200 mm
Blockage with hearthstone
Wall, with 10 cm thick non-bearing bimsbeton wall blocks, (with bimsbeton glue) (min. 1,50 n / mm ² and 600-900 kg / m ³ , excluding 900 kg / m ³).
Geotextile felt laying weighing 150 gr / m ²
Making 400kg of cement dose screed with a thickness of 2.5 cm
Two layers of waterproofing required by using 3 mm thick elastomer based (-20 ° C cold bending) polyester felt carrier polymer bitumen covers
Cement based single component crystallized waterproofing mortar should be reinforced with mesh and waterproofing should be done in 2 layers with a total thickness of 1.5 mm
200/250 kg lime / cement mixture should be applied with thick and thin mortar (interior plaster)
One coat of rough plaster should be applied with 350 kg cement dose mortar
To apply satin gypsum coating on bare concrete, thin plaster, gypsum plaster etc. Surfaces
To make single layer gypsum plaster on the walls with ready machine plaster (20mm thickness).
(25 x 33 cm) or (25 x 40 cm) nominal sizes, all kinds of pattern and surface properties, 1st quality, colored ceramic wall tiles and 3 mm joint spacing wall covering (with tile adhesive).
40 x 40 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive).
60 x 60 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive)
To make a parapet with 3 cm thick white marble slab (3cmx30-40-50cmx free size) (honed or polished).
To make jamb with 2 cm thick colored marble slab (2cmx30-40-50cmx free size) (honed or polished)
Production and replacement of electrostatic powder coated aluminum joinery without heat insulation
Colored-matt and anodized heat-insulated aluminum joinery manufacturing and putting into place.
Fitting the interior and exterior door lock with recessed cylinder (wide and narrow type) (wood, metal, plastic)
Fitting door handles and mirrors (chrome plated) (Wood, Metal, Plastic)
Fitting the rubber-head bumper (wood, metal, plastic)
Fitting the hinge (wood, metal, plastic)
Installation of the bolt (vertical fixing set) (wood, metal, plastic)
Placing the hinge
Placement of the espagnolette assembly (incl. Arm) up to 180 cm, with 3 clutches (wood, metal and plastic) (with written permission of the administration)

4 mm thick flat glass window unit installation with PVC and aluminum joinery
Using the profile, the first glass with 4 + 4 mm thickness and 16 mm spacing with double-glazed window with sun and heat control coating should be attached to the pvc and aluminum joinery.
Laminate coated, two sides made of wood fiber boards (MDF) pressed, kraft filled interior door leaf made and the door installation
Concealed carrier system suspended ceiling is required by using 30 * 30 cm size 0.70 mm thick min.20 micron electrostatic powder coated (polyester based) back side covered with acoustic fabric perforated aluminum plate (en aw 3000 series).
The preparation of exposed concrete surfaces for gypsoplast or plaster (interior wall).
To apply two layers of water-based silk-matte paint (interior façade) by applying primer to newly plastered surfaces
To apply two layers of water-based silk-matte paint (interior façade) by applying primer to satin plaster and plasterboard surfaces.
Placing windows and doors with square and rectangular profiles
2.00 mm thick flat black sheet metal bending door frame and put into place.
Heat-insulated sandwich clamp system roof covering of 0.65 mm trapezoidal painted galvanized sheet with 8 cm stone wool filling on top and bottom of existing wooden, steel, reinforced concrete beam or purlin roof.
Concrete Covering of Field, Retarder, Road, Car Park, Hangar and Workshop (Using Ready-Mixed Concrete)
Floor covering with Bulancak smoked granite plaque
Stairs making with bulancak smoked granite plaqueası
Partition board and door should be made with 13 mm compact laminate
Stainless Steel Stair Railing and Handrail
Fire door with a panic bar with a resistance of 120 minutes
STEEL DOOR 120/220
INDUSTRIAL DOOR 405/440
ACOUSTIC TILE CARPET COATING 50X50
SMOKE DRAIN CHIMNEY

BİTLİS ATELIER CONSTRUCTION CIVIL-ARCHITECTURAL WORKS of HEATING CENTER

Definition
Silicone based water based exterior paint
Soft rock excavation without using any kind of explosive material. (free excavation).
Sand providing, laying, manual laying, irrigation and compaction
Drainage by providing gravel
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Construction of flat surface reinforced concrete formwork with Plywood
Providing and installation of pvc-based corrugated drainage pipe with a nominal diameter of Ø 200 mm
Blockage with hearthstone
Wall, with 10 cm thick non-bearing bimsbeton wall blocks, (with bimsbeton glue) (min. 1,50 n / mm ² and 600-900 kg / m ³ , excluding 900 kg / m ³).
Geotextile felt laying weighing 150 gr / m ²
Making 400kg of cement dose screed with a thickness of 2.5 cm

Two layers of waterproofing required by using 3 mm thick elastomer based (-20 ° C cold bending) polyester felt carrier polymer bitumen covers
Cement based single component crystallized waterproofing mortar should be reinforced with mesh and waterproofing should be done in 2 layers with a total thickness of 1.5 mm
200/250 kg lime / cement mixture should be applied with thick and thin mortar (exterior plaster)
200/250 kg lime / cement mixture should be applied with thick and thin mortar (interior plaster)
Rough and thin mortar plaster (ceiling plaster) with 250/350 kg lime / cement mixture
One coat of rough plaster should be applied with 350 kg cement dose mortar
Construction of free standing roof (with wooden plank under the roof)
Waterproofing under sloped roofs under the roof cover with a laminated polymer bitumen cover with glass film carrier on both sides covered with polyethylene film of minimum 1 mm thickness
(25 x 33 cm) or (25 x 40 cm) nominal sizes, all kinds of pattern and surface properties, 1st quality, colored ceramic wall tiles and 3 mm joint spacing wall covering (with tile adhesive).
40 x 40 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive).
Interior floor covering with marble aggregate terrazzo tile (breaking load conditions (class 1) surface area <= 1100cm ² , honed or polished)
To make a parapet with 3 cm thick white marble slab (3cmx30-40-50cmx free size) (honed or polished).
Colored-matt and anodized heat-insulated aluminum joinery manufacturing and putting into place.
Fitting the interior and exterior door lock with recessed cylinder (wide and narrow type) (wood, metal, plastic)
Fitting door handles and mirrors (chrome plated) (Wood, Metal, Plastic)
Fitting the hinge (wood, metal, plastic)
Placing the hinge
Placement of the espagnolette assembly (incl. Arm) up to 180 cm, with 3 clutches (wood, metal and plastic) (with written permission of the administration)
Using the profile, the first glass with 4 + 4 mm thickness and 16 mm spacing with double-glazed window with sun and heat control coating should be attached to the pvc and aluminum joinery.
Laminate coated, two sides made of wood fiber boards (MDF) pressed, kraft filled interior door leaf made and the door installation
Two coats of anticorrosion and two coats of synthetic paint are required on iron surfaces.
Preparation of gross concrete surfaces for gypsum or plaster (interior wall)
Two layers of water-based silk-matte paint by applying primer on new plaster surfaces (interior wall)
Placing windows and doors with square and rectangular profiles
2.00 mm thick flat black sheet metal bending door frame and put into place.
Painted Trapezoidal Section Steel Roofing
Steel Door

ATIVE BUILDING

Unit	Amount	Unit Price (€)	Total (€)
m ³	3693,04		
m ³	10,536		
m ³	24,584		
m ³	324,192		
m ³	782,28		
TON	12,51		
TON	21,839		
TON	42,661		
m ³	195,44		
m ²	2223,63		
m ³	5540,805		
m ²	122,92		
m	195,6		
m ³	462,096		
m ²	536,589		
m ²	1620,69		
m ²	466,81		
m ²	1743,88		
m ²	63,58		
m ²	200,959		
m ²	326,088		
m ²	1048,498		
m ²	466,117		
m ²	300,054		
m ²	104,01		
m ²	238,04		
m ²	19,39		
m ²	4,16		
KG	205,578		
KG	798,34		
PCS	24		
PCS	24		
PCS	24		
PCS	108		
PCS	12		
PCS	141		
PCS	49		

m²	30,439		
m²	56,712		
m²	30,58		
m²	13,8		
m²	65,684		
m²	210,47		
m²	1048,498		
KG	1135,334		
KG	139,356		
m²	2641,668		
m³	302,786		
m²	4,03		
m	30,45		
m²	26,4		
KG	165,537		
PCS	2		
PCS	1		
PCS	2		
m²	121,69		
PCS	10		
			-

BUILDING

Unit	Amount	Unit Price (€)	Total (€)
KG	231,000		
m³	130,176		
m³	3,300		
m³	7,700		
m³	24,528		
m³	93,687		
TON	2,961		
TON	5,037		
m²	263,200		
m	85,000		
m³	12,264		
m²	207,350		
m²	122,640		
m²	91,860		

m²	133,640		
m²	3,960		
m²	230,780		
m²	319,116		
m²	91,860		
m²	28,900		
m²	122,640		
m²	134,904		
m²	28,900		
m²	3,960		
m²	87,900		
m²	1,024		
KG	34,726		
PCS	7,000		
PCS	7,000		
PCS	21,000		
PCS	7,000		
PCS	3,000		
m²	1,632		
m²	1,980		
m²	41,696		
m²	114,596		
m²	382,076		
KG	457,726		
KG	13,568		
m²	128,772		
PCS	1,000		
			-

No	Dwg. No
1	LSCP1
2	LSCP2
3	LSCP3
4	LSCP4
5	LSCP5
6	LSCP6
7	LSCP7
8	LSCP8
9	LSCP9
10	LSCP10
11	LSCP11
12	LSCP12
13	LSCP13
14	LSCP14
15	LSCP15
16	LSCP16
17	LSCP17

No	Dwg. No
1	LSCP18
2	LSCP19
3	LSCP20
4	LSCP21
5	LSCP22
6	LSCP23
7	LSCP24
8	LSCP25
9	LSCP26
10	LSCP27
11	LSCP28
12	LSCP29
13	LSCP30
14	LSCP31
15	LSCP33
16	LSCP34

17	LSCP35
18	LSCP36

LANDSCAPE WORKS of SITE

Definition
Soft rock excavation without using any kind of explosive material. (free excavation).
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Construction of flat surface reinforced concrete formwork with Plywood
Blockage with hearthstone
10 cm high normal cemented steam cured concrete cobblestone floor covering (any size, color and design)
Installation of 50 x 20 x 10 cm normal cemented steam cured concrete border (bevelled, each color)
Laying of normal cemented steam cured concrete gutter in "30 x 10 x free size" cm dimensions (each color)
Two coats of anticorrosion and two coats of synthetic paint are required on iron surfaces.
Placing windows and doors with square and rectangular profiles
SUPPLY OF PLANT SOIL
PLANT SOIL SPREADING OF 10-15 CM THICKNESS
GRASS SEED PLANT
USING DOUBLE COMPONENT PAINT OF 2 MM THICKNESS: DRAWING OF PEDESTRIAN CROSSES, SLOWING WARNING AND STRIP LINES
SITE SECURITY CABIN (270X270)

INFRASTRUCTURAL WORKS OF SITE

Definition
Corrugated drainage pipes with nominal diameter Ø = 100 mm (PVC based) (TS 9128)
Ø = 150 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 8)
Ø = 100 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 4)
Ø = 125 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 4)
Ø =75 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø =110 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø =160 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø 100 mm one end muffled rigid PVC pipe (rain water pipe) (TS EN 1329-1, TSE CEN / TS 1329-2)
Ø 160 mm one end muffled rigid PVC pipe (rain water pipe) (TS EN 1329-1, TSE CEN / TS 1329-2)
Brass chrome-plated grate 20x20 cm, Bath strainer (according to TS 327/2)
Making trench and foundation filling with excavation material machine
Cast iron 20x20 cm. Floor drain with Ø 70 outlet
Soft and hard soil excavation with machine (Free excavation)
Sand providing, laying, manual laying, irrigation and compaction
Exterior diameter Ø 120 mm, pre-insulated steel pipe, bearer pipe mention size 2"
Exterior diameter Ø 160 mm, pre-insulated steel pipe, bearer pipe mention size 3"

Exterior diameter Ø 90 mm, glass-fiber reinforced pre-insulated pipe, bearer PPR-C pipe mention size Ø 32

Exterior diameter Ø 110 mm, glass-fiber reinforced pre-insulated pipe, bearer PPR-C pipe mention size Ø 40

Unit	Amount	Unit Price (€)	Total (€)
M3	125,631		
M3	192,450		
M3	169,379		
TON	3,180		
TON	10,374		
M2	907,335		
M3	192,450		
M2	1896,000		
MT	15,700		
MT	170,200		
M2	256,650		
KG	7444,019		
M3	4,780		
M3	4,780		
DA	0,032		
M2	13,440		
pcs	1,000		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	208		
m	136,8		
m	144		
m	102		
m	25		
m	102		
m	25		
m	312		
m	312		
PCS	26		
m ³	591,12		
PCS	26		
m ³	656,8		
m ³	65,68		
m	38		
m	38		

m	120		
m	76		
			-

1)SANITARY IN

No	Dwg. No
1	MEC.1
2	MEC.2
3	MEC.3
4	MEC.4
5	MEC.5
6	MEC.6
7	MEC.7
8	MEC.8
9	MEC.9
10	MEC.10
11	MEC.11
12	MEC.12
13	MEC.13
14	MEC.14
15	MEC.15
16	MEC.16
17	MEC.17
18	MEC.18
19	MEC.19
20	MEC.20
21	MEC.21
22	MEC.22
23	MEC.23
24	MEC.24
25	MEC.25
26	MEC.26
27	MEC.27
28	MEC.28
29	MEC.29
30	MEC.30
31	MEC.185

2)HEATING INS

No	Dwg. No
1	MEC.33
2	MEC.34
3	MEC.35
4	MEC.36
5	MEC.37
6	MEC.39
7	MEC.40

8	MEC.41
9	MEC.42
10	MEC.43
11	MEC.44
12	MEC.45
13	MEC.46
14	MEC.47
15	MEC.48
16	MEC.49
17	MEC.50
18	MEC.51
19	MEC.52

3)COMMON IN

No	Dwg. No
1	MEC.53
2	MEC.54
3	MEC.55
4	MEC.56
5	MEC.57
6	MEC.58
7	MEC.59
8	MEC.60
9	MEC.61
10	MEC.62
11	MEC.63
12	MEC.64
13	MEC.65
14	MEC.66
15	MEC.67
16	MEC.68

17	MEC.69
18	MEC.70
19	MEC.71
20	MEC.72
21	MEC.73
22	MEC.74
23	MEC.75
24	MEC.76
25	MEC.77
26	MEC.78
27	MEC.79
28	MEC.80
29	MEC.81
30	MEC.82
31	MEC.83
32	MEC.84
33	MEC.85
34	MEC.86
35	MEC.87
36	MEC.88
37	MEC.89
38	MEC.90
39	MEC.91
40	MEC.92
41	MEC.93
42	MEC.94
43	MEC.95
44	MEC.96

45	MEC.97
46	MEC.98
47	MEC.99
48	MEC.100
49	MEC.101
50	MEC.102
51	MEC.103
52	MEC.104
53	MEC.105
54	MEC.106
55	MEC.107
56	MEC.108
57	MEC.109
58	MEC.110
59	MEC.186
60	MEC.187
61	MEC.188

4)FIRE INSTALL

No	Dwg. No
1	MEC.111
2	MEC.112
3	MEC.113
4	MEC.114
5	MEC.115
6	MEC.116
7	MEC.117
8	MEC.118
9	MEC.119
10	MEC.134

11	MEC.135
12	MEC.136
13	MEC.137
14	MEC.138
15	MEC.139

5) AUTOMATIC

No	Dwg. No
1	MEC.173
2	MEC.174
3	MEC.175
4	MEC.176
5	MEC.177
6	MEC.178
7	MEC.179
8	MEC.180
9	MEC.181
10	MEC.182
11	MEC.183
12	MEC.184

6) VENTILATION

No	Dwg. No
1	MEC.31
2	MEC.32

BİTLİS ATELIER CONSTRUCTION MECHANICAL WORKS of ATELIER and ADMINISTRATİV

STALLATION

Definition
45x55 cm Half Pedestal Set washbasin
First class: (Battery TS EN 200 or TS EN 817; Siphon TS-EN 274-1-2-3)
Approx. 40x50 cm mirror
50x60 cm Extra Class plastic siphon peak, Glazed tiles, ALATURKA Lavatory stones (TS.799)
Pressure toilet washer (with flusometer)
Approx. 35x55 cm (Extra quality)
For disabled people, approximately 35x70 cm Extra quality (the height of the toilet seat should be between 43 cm and 48 cm), ALAFRANGA TOILET WITH SELF RESERVOIR AND INSTALLATION
TS EN 200 or TSEN 817 with brass siphon with coil, TS-EN 274-1-2-3 (First class), SINK INSTALLATION
Bathroom set with recessed head and hand shower, built-in bath battery set with hand shower and clapper with water filler
white acrylic shower tray (Monoblock Body) 90x90x11 cm, square, Acrylic shower tray with monoblock body
1/2 "long faucet, incl. Rosette with strainer
Foldable handlebar for the disabled
135° grab bar for the disabled
Toilet seat bar for the disabled
Paper holder for the disabled
Hard plastic 15x15 cm, Floor drain (according to TS-327/3)
50 Ø mm Flanged Cold water meters, Supply and installation of cold water meters in the workplace
45,0 m³ Prismatic Modular Stainless Steel Water Tank
Flow-m³ / h: 10-30 Pressure-mSS: 60-90, Two Pump, Vertical Shaft, Frequency Converter Booster
100 Ø mm (4 "), galvanized collector tube
25 Ø mm, collector neck: with galvanized sleeves
40 Ø mm, collector neck: with galvanized sleeves
50 Ø mm, collector neck: with galvanized sleeves
65 Ø mm flanged collector neck: with galvanized sleeves
100 Ø mm, Ventilation pipe and cap
60 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
80 liters,1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
100 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
Grating job
Liquid Soap Machine(Countertops Stainless) 800 ml
Solid waste oil separator, capacity: 4 lt/sc, thickness: min.3 mm, oil volume: 160 litre

TALLATION

Definition
(240.000 kcal / h) 280 kW, Hot Water Producer, Steel Material (Welded) Central Heating Boilers (3 atmospheric construction pressure)
Panel radiator, (Type 22) 600
Heat power kcal / h: 8.000, Maximum air quantity m³ / h: 1.500, Hot air devices with radial fans (Wall hanging type)
15 Ø mm (1/2 "), Corner type radiator tap (TS 579)
20 Ø mm (3/4"), Corner type radiator tap (TS 579)
400 mm long, Radiator Connection Pipe
108/3,71 Ø mm welded pipe, collector pipe

133/4,0 Ø mm welded pipe, collector pipe
159/4,5 Ø mm welded pipe, collector pipe
Nozzle diameter 50 Ø mm, collector nozzles
Nozzle diameter 80 Ø mm, collector nozzles
Nozzle diameter 100 Ø mm, collector nozzles
10 Liter, Cylindrical Ventilation tank
Ø = 700, Insulated Stainless Steel Chimney (Exterior Coating Stainless Steel)
Supply and installation of spiral protective sleeve used in PE-Xa, PE-Xb and PE-RT pipes Ø16- Ø17
1 "collector with 6 outlets and mini ball valve
1 "collector with 7 outlets and mini ball valve
1 "collector with 9 outlets and mini ball valve
Open Expansion Tank 1000 lt with Electric Heater

STALLATION

Definition
Welded black pipe 1"
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1 1/4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe 1 1/2"
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe 2"
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (3")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1/2")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (3/4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1 1/4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (2")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (2 1/2")
201-400 Cost of pipe installation material which is screwed inside the building
Pn 20 Polypropylene Clean Water Pipe 3/4 "25 / 4.2mm Polypropylene Clean Water Pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 3/4 "25 / 4.2 mm Polypropylene Clean Water Pipes
Pn 20 Polypropylene Clean Water Pipe 1 "32 / 5.4mm Polypropylene Clean Water Pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 1 "32 / 5.4mm Polypropylene Clean Water Pipes
Pn 20 polypropylene pipe 1 1/4 "40 / 6.7 mm Polypropylene clean water pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 1 1/4 "40 / 6.7 mm Polypropylene Clean Water Pipes
2 "63 / 8.6 (Nominal Size Diameter / Wall thickness (Ø mm) PN 20 polypropylene tubes with ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
204-3300 2 "63 / 8,6 (Nominal Size Diameter / Wall thickness (Ø mm.) PN 20 polypropylene tubes ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC

3" 90/12,3 2 "63 / 8.6 (Nominal Size Diameter / Wall thickness (Ø mm) PN 20 polypropylene tubes with ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
204-3300 Pn 20 polypropylene pipes 2 1/2 ", 75 / 12.5 mm Polypropylene clean water pipes
Rigid PVC plastic drain pipe (plug-in plug, diameter: 50-40 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 75-70 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 100-110 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 125 mm, wall thickness 3,2 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 160-150 mm, wall thickness 3,2 mm)
204-501 Plug-in waste water plastic pipe installation material cost
PE-Xa Oxygen Barrier Tube 50x4,6 mm
PE-Xa Oxygen Barrier Tube 63x5,8 mm
204-970 B.F.T. In case PE-Xa pipes 204-920 / 1-2 and 204-930 are used in heating installation, the amount of the assembled pipe amount as connection elements, fastening materials, flange and gasket counterparts (Size:%)
15 Ø mm (1/2 "), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
20 Ø mm (3/4"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
25 Ø mm (1"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
32 Ø mm (1 1/4"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
40 Ø mm (1 1/2"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
50 Ø mm (2"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
40 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
50 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
65 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
80 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
100 Ø mm, PN 10-16 Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
Flow rate m ³ / h: 8.1-12 Pressure SS (3,51-5,00) Pa: 31501-45000, Circulation pump, straight tube type, dry rotor up to
Flow rate m ³ / h: 12,1-25 Pressure SS (3,51-5,00) Pa: 31501-45000, Circulation pump, straight tube type, dry rotor up to 1,450 rpm
65 Ø mm with flange, strainer, PN-16, for steam and superheated water, cast iron body with diameters greater than Ø = 65 internal filter with stainless steel, screw or flange
100 Ø mm with flange, strainer, PN-16, for steam and superheated water, cast iron body with diameters greater than Ø = 65 internal filter with stainless steel, screw or flange
50 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
65 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
80 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
Pipe Outer Diameter (3/4 ") 27 Ø mm ----- Glass Wool Wall Thickness: 25 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 ") 33 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)

Pipe Outer Diameter (1 1/4 ") 42 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 1/2 ") 48 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (2 ") 60 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (2 1/2 ") 76 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
(4 ") 114 Ø mm 40 mm, Glass wool based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
15 Ø mm between 50 Ø mm (1/2 "-2") (2 ") 50 mm included, Pipe painting, watercolor paint
50 Ø mm between 100 Ø mm (1/2 "-2") (2 ") 100 mm included, Pipe painting, watercolor paint
100 Ø mm between 150 Ø mm (1/2 "-2") (2 ") 150 mm included, Pipe painting, watercolor paint
(1/2 ") 22 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
3/4") 28 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1") 35 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1 ¼") 42 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1 ½") 48 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(2") 60 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
DN 70, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
DN 100, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
DN 125, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost

ATION

Definition
DN 100, above ground fire hydrant (TS EN 14339, 14384, 1074-6)
Hose Diameter DN 25 Hose Length 25 m, Tubular Model Fire Cabinets, TS. EN 671-1 NORMS
Fire Department Connection Mouth
Flow rate = 36 m ³ / h h = 80 mss horizontal line (in-line) type fire pump
Flow rate 5,0 m ³ / h, Nominal discharge head 85 mSS, Electric Motor Leakage Pump Group
DN 100 Pump flow meter, Pump flow meter
Welded galvanized pipe (2")
201-400 Screwed pipe installation material cost in the building - 0,30 4,934,72 1,480,42
Welded galvanized pipe (2 1/2 ")
201-400 Screwed pipe installation material cost in the building - 0.30 2.543.52 763.06
Welded galvanized pipe (3")
201-400 Screwed pipe installation material cost in the building - 0,30 607,86 182,36
800 mm nominal diameter, 16 atmospheric pressure resistance (SN 2500) Glass Fiber Reinforced (GRP) Plastic Pipes (TS EN 1796)

1000 mm nominal diameter, 16 atmospheric pressure resistance (SN 2500) Glass Fiber Reinforced (GRP) Plastic Pipes (TS EN 1796)
1600 mm nominal diameter, 16 atmospheric pressure resistance (SN 2500) Glass Fiber Reinforced (GRP) Plastic Pipes (TS EN 1796)
DN 150, Traceable rising stem valve
DN 150, Fire Check Valve
80 Ø mm Screw or Flanged, pressure reducing valve, for water

CONTROL INSTALLATION

Definition
2-position electric immersion thermostat with contact up to 100 ° C
Outdoor air temperature sensor
Proportional controlled electronic hot water control panel
Servomotor position limitation addition
Addition of temperature gauge for electronic temperature control panel
Interlocking inside or outside of the panel, for electronic temperature control panel
Heat level addition to temperature control panel for electronic temperature control panel
Valve 50 mm and smaller, for damper smaller than 2 m ²
Contact insert mounted in the servomotor
Hand control potentiometer mounted on servomotor
Servomotor connection mechanism for 50 mm and small valves
DN 80, three way, PN 16, with flange connection, control valve body

V INSTALLATION

Definition
2,000 m ³ / h, Roof-mounted radial extractors, pressure up to 225 Pascal (25 mm SS)
Construction of rectangular air ducts made of galvanized sheet in dimensions of the project in 0,60 mm, in the widest edge up to 600 mm (including 600 mm)

E BUILDING

Unit	Amount	Unit Price (€)	Total (€)
PCS	7		
Set	7		
PCS	7		
PCS	2		
Set	2		
Set	5		
PCS	1		
PCS	1		
Set	3		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	8		
PCS	1		
PCS	1		
PCS	1		
m	3		
PCS	1		
PCS	2		
PCS	1		
PCS	2		
PCS	3		
PCS	1		
PCS	1		
PCS	2		
Kg	856,57		
PCS	7		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
m	32,9		
PCS	18		
PCS	60		
PCS	36		
PCS	60		
m	2		

m	2		
m	4		
PCS	8		
PCS	8		
PCS	2		
PCS	2		
m	12		
m	710		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	196		
-	0,3		
m	92		
-	0,3		
m	152		
-	0,3		
m	134		
-	0,3		
m	68		
-	0,3		
m	12		
-	0,3		
m	44		
-	0,3		
m	46		
-	0,3		
m	26		
	0,3		
m	33		
	0,3		
m	22		
	0,3		
m	20		
	0,3		
m	75		
-	0,45		
m	60		
-	0,45		
m	88		
-	0,45		
m	20		
-	0,45		

m	20		
-	0,45		
m	18		
-	0,35		
m	21		
-	0,35		
m	342		
-	0,35		
m	120		
-	0,35		
m	120		
-	0,35		
m	33		
m	40		
-	0,35		
PCS	8		
PCS	8		
PCS	23		
PCS	3		
PCS	2		
PCS	1		
PCS	2		
PCS	7		
PCS	3		
PCS	7		
PCS	4		
PCS	2		
PCS	4		
PCS	1		
PCS	1		
PCS	2		
PCS	2		
PCS	1		
m	9		
m	196		

m	92		
m	152		
m	134		
m	68		
m	44		
m	440		
m	80		
m	12		
m	44		
m	46		
m	26		
m	33		
m	22		
m	20		
m	21		
-	0,35		
m	142		
-	0,35		
m	40		
-	0,35		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	7		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
m	120		
-	0,3		
m	48		
-	0,3		
m	9		
-	0,3		
m	12		

m	100		
m	10		
PCS	5		
PCS	2		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	12		
PCS	10		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	4		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
m²	70		
			-

03.01 LIGHTING

No	Dwg. No
1	ELEC.49
2	ELEC.93
3	ELEC.94
4	ELEC.95
5	ELEC.96
6	ELEC.97
7	ELEC.98
8	ELEC.99
9	ELEC.100
10	ELEC.101
11	ELEC.104
12	ELEC.105
13	ELEC.106
14	ELEC.108
15	ELEC.110
16	ELEC.111
17	ELEC.112
18	ELEC.113
19	ELEC.114
20	ELEC.207
21	ELEC.208
22	ELEC.209
23	ELEC.219

03.02 DATA & T

No	Dwg. No
1	ELEC.150
2	ELEC.151
3	ELEC.152
4	ELEC.153
5	ELEC.157
6	ELEC.159
7	ELEC.160
8	ELEC.161
9	ELEC.162
10	ELEC.163
11	ELEC.164
12	ELEC.165
13	ELEC.211

03.03 CABLE LIN

No	Dwg. No
1	ELEC.117

03.04 BASIC EA

No	Dwg. No
1	ELEC.1
2	ELEC.19
3	ELEC.174
4	ELEC.175
5	ELEC.176
6	ELEC.177
7	ELEC.178

03.05 PANEL, CI

No	Dwg. No
1	ELEC.9
2	ELEC.12
3	ELEC.13
4	ELEC.16
5	ELEC.17
6	ELEC.18
7	ELEC.20
8	ELEC.21
9	ELEC.22
10	ELEC.23
11	ELEC.24
12	ELEC.25
13	ELEC.26
14	ELEC.27
15	ELEC.28
16	ELEC.29
17	ELEC.30
18	ELEC.31
19	ELEC.32
20	ELEC.33
21	ELEC.34
22	ELEC.35
23	ELEC.37
24	ELEC.38
25	ELEC.39
26	ELEC.40
27	ELEC.42
28	ELEC.43
29	ELEC.54
30	ELEC.55

31	ELEC.56
32	ELEC.57
33	ELEC.62
34	ELEC.63
35	ELEC.64
36	ELEC.65
37	ELEC.66
38	ELEC.67
39	ELEC.68
40	ELEC.69
41	ELEC.70
42	ELEC.72
43	ELEC.73
44	ELEC.74
45	ELEC.75
46	ELEC.76
47	ELEC.78
48	ELEC.79
49	ELEC.80
50	ELEC.81
51	ELEC.82
52	ELEC.83
53	ELEC.84
54	ELEC.85
55	ELEC.86
56	ELEC.87
57	ELEC.88
58	ELEC.89
59	ELEC.91
60	ELEC.92

03.06 FIRE WAF

No	Dwg. No
1	ELEC.71
2	ELEC.118
3	ELEC.119
4	ELEC.120
5	ELEC.121
6	ELEC.122
7	ELEC.123
8	ELEC.124
9	ELEC.125
10	ELEC.126
11	ELEC.127
12	ELEC.129
13	ELEC.130
14	ELEC.131
15	ELEC.136

16	ELEC.137
17	ELEC.154
18	ELEC.155

03.07 TV INSTA

No	Dwg. No
1	ELEC.146
2	ELEC.147
3	ELEC.149
4	ELEC.209
5	ELEC.214
6	ELEC.215
7	ELEC.216
8	ELEC.217

03.08 SOUND B

No	Dwg. No
1	ELEC.128
2	ELEC.132
3	ELEC.133
4	ELEC.134
5	ELEC.135
6	ELEC.138
7	ELEC.139
8	ELEC.140
9	ELEC.141
10	ELEC.142
11	ELEC.143
12	ELEC.144
13	ELEC.145
14	ELEC.148
15	ELEC.156
16	ELEC.157
17	ELEC.158
18	ELEC.160
19	ELEC.161
20	ELEC.162

03.09 UPS INST.

No	Dwg. No
1	ELEC.115
2	ELEC.116

03.10 ENVIRON

No	Dwg. No
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1	ELEC.14
2	ELEC.20
3	ELEC.21
4	ELEC.25
5	ELEC.33
6	ELEC.41
7	ELEC.42
8	ELEC.44
9	ELEC.47
10	ELEC.48
11	ELEC.58
12	ELEC.59
13	ELEC.60
14	ELEC.61
15	ELEC.102
16	ELEC.176
17	ELEC.218

03.11.PARATON

No	Dwg. No
1	ELEC.169
2	ELEC.170
3	ELEC.171
4	ELEC.172
5	ELEC.173

03.12 HEATING

No	Dwg. No
1	ELEC.1
2	ELEC.15
3	ELEC.19
4	ELEC.20
5	ELEC.21
6	ELEC.22
7	ELEC.26
8	ELEC.33
9	ELEC.36
10	ELEC.41
11	ELEC.45
12	ELEC.46
13	ELEC.64
14	ELEC.65
15	ELEC.71
16	ELEC.72
17	ELEC.81
18	ELEC.82
19	ELEC.90

20	ELEC.94
21	ELEC.97
22	ELEC.98
23	ELEC.100
24	ELEC.101
25	ELEC.103
26	ELEC.106
27	ELEC.107
28	ELEC.109
29	ELEC.111
30	ELEC.114
31	ELEC.119
32	ELEC.120
33	ELEC.121
34	ELEC.122
35	ELEC.123
36	ELEC.124
37	ELEC.125
38	ELEC.136
39	ELEC.153
40	ELEC.154
41	ELEC.157
42	ELEC.174
43	ELEC.175
44	ELEC.176
45	ELEC.177
46	ELEC.178
47	ELEC.210

03.14 GENERAT

No	Dwg. No
1	ELEC.167
2	ELEC.168

03.15 COMPEN

No	Dwg. No
1	ELEC.12
2	ELEC.50
3	ELEC.51
4	ELEC.52
5	ELEC.53

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03.16 CCTV INS

No	Dwg. No
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1	ELEC.77
2	ELEC.151
3	ELEC.157
4	ELEC.159
5	ELEC.160
6	ELEC.161
7	ELEC.162
8	ELEC.163
9	ELEC.164
10	ELEC.223
11	ELEC.224
12	ELEC.225
13	ELEC.226
14	ELEC.227
15	ELEC.228
16	ELEC.229

03.17 ELEVATO

No	Dwg. No
1	ELEC.166

03.18 TRANSFO

No	Dwg. No
1	ELEC.179
2	ELEC.180
3	ELEC.181
4	ELEC.182
5	ELEC.183
6	ELEC.184
7	ELEC.185
8	ELEC.186
9	ELEC.187
10	ELEC.188
11	ELEC.189
12	ELEC.190
14	ELEC.192
15	ELEC.193
16	ELEC.194
17	ELEC.195
18	ELEC.196
19	ELEC.197
20	ELEC.198
21	ELEC.199
22	ELEC.200
23	ELEC.201

24	ELEC.203
25	ELEC.204
26	ELEC.205
27	ELEC.206
28	ELEC.206

BİTLİS ATELIER CONSTRUCTION ELECTRICAL WORKS of ATELIER and ADMINISTRATIVE

AND SOCKET INSTALLATION

Definition
1 contact 1 na, 16a remote control pulse current switch and installation
Sorting with pulse current switch control
Halogenfree cable and safety line normal sorties
Security line commander sorti with halogenfree cable
Security line parallel sorti with Halogenfree cable
Normal sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Commander sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Vavien sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Safety line socket sortie with Halogenfree cable.
Linye and sorti lines lead-free antigron (NHXMH) type of material with normal socket sorties
Recessed, min. 30x30 sized, LED ceiling light (minimum luminous flux 1000 lm, maximum consumption of 12 w)
Recessed, min. 60x60 sized, LED ceiling light (with minimum luminous flux of 3300 lm, maximum consumption of 36 w)
Recessed, circular downlight with LED (luminous flux at least 1700 lm, max. Consumption 24 W)
LED Surface Mounted Waterproof Luminaire (Polycarbonate) Luminous flux at least 1800 lm, consumption value up to 20 W.
LED Glop Luminaire The luminous flux is at least 1800 lm, the consumption is at most 20W (with at least IP 40 protection degree).
Led lighting fixtures for emergency lighting kit price difference
Led lighting fixture with sensor price difference
Led Floodlights with light flux at least 8500 lm, consumption value up to 100 w
360° ceiling mounted surface mounted motion sensor
60W 40x40 High Ceiling Led Armature
12W Sconce Led Armature
13W Self Sensor Led Armature
ETHANGE THERMOPLASTIC COMPLETE SOCKET OUTLET BOX (INCLUDING SETS AND FUSES)

TELEPHONE INSTALLATION

Definition
Utp cat6 recessed single socket
Utp cat6 patch panel with 24 ports
Telephone distribution box Up to 30 pairs
Telephone system sortie
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Free standing cabinets 20u 600 mm * 800 mm 19 "
Product's accessory wheel brake group
Product's accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse
Product's accessory 19 "1u horizontal cable organizer
Product's accessory 20u vertical cable organizer
Hybrid count. telephone switchboard analogue (d. line: 8. line: 32) digital (i. line: 15 d. line :-) pr (30b + d): _ ip (d. line: 6 i. line: 30)
25 PORT ISDN PATCH PANEL

JE LINK INSTALLATION

Definition
Cable tray systems

RTHING INSTALLATION

Definition
Ø1000 mm inner diameter, input-output diameter Ø 200/300/400 mm Manhole Base
Supply and installation of copper busbar in accordance with TSE requirements to be placed in casting box and panels and painting to the colors in TS EN 60445.
Conductor for building construction 2x50 mm ² copper wire
Conductor for building construction 30 × 3.5 mm galvanized steel plate
Earth electrode (rod), electrolytic copper
Conductive protective tube
Thermocouple attachment up to 150 gr.

RCUIT BREAKER, CABLE INSTALLATION

Definition
COMBI X / 100 V X / 5 A ELECTRONIC METERS
Front covered sheet panel (TS EN 61439-1 / 2)
Surface mounted sheet metal up to 0,05 - 0,10m ² (including 0,10m ²) (TS 3367 EN 60439-1)
Built-in sheet table 0.05-0.10 m ² . (ts en 61439-1 / 2)
Built-in sheet table 0.10-0.20 m ² . (ts en 61439-1/2)
Built-in sheet table 0.40-0.50 m ² . (ts en 61439-1/2)
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 25 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 40 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 60 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 25 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Three-phase up to 40 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Three-phase up to 63 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
From 3 x 10 A to 3 x 63 A, Icu: 35 kA, I1: (0.8-1) In
up to 3 x 100 A Icu: 35 kA, I1: (0.8-1) In
up to 3 x 125 A Icu: 35 kA, I1: (0,8-1)In
up to 3 x 400 A, Icu: 35 kA, I1: (0,8-1)In, I3: (6-10)In,
Up to 3 x 630 A , Icu: 35 kA, I1: (0,8-1)In, I3: (6-10)In,
Residual current circuit breaker up to 4 * 25 a (30ma)
Residual current circuit breaker up to 4 * 63 a (30ma)
Residual current circuit breaker up to 4 * 100 a (30ma)
Residual current circuit breaker up to 4 * 40 a (300ma)
Residual current circuit breaker from 3*300 up to 3*1250
Class B, 230V AC, 100 kA (I imp; 10 / 350µs), three-phase, neutral-to-earth
C class 230/400 V AC, 40kA, (I max; 8 / 20µs), phase-to-earth or two-phase to earth or phase-to-neutral
Indicator lamp up to 250 v
4 x 630 A Automatic Transfer Switches
Multimeters (ts 4417)
Current measuring transformer 100 - 500/5 a.

Current measuring transformer 501 - 2000/5 a.
Energy analisor (ts 4417)
1kv underground cable column and supply line 4 * 6 mm2 nyy (TS IEC 60502-1 + A1)
1x1,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x2,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x4 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x6 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x10 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x16 mm plastic insulated conductor (HO7Z, O7Z1)
1x25 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x50 mm2 plastic insulated conductor (HO7Z, O7Z1)
3x2.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
1x16 mm2 1kv underground cable feeding line (n2xh)
1x70 mm2 1kv underground cable feeding line (n2xh)
1x95 mm2 1kv underground cable feeding line (n2xh)
1x120 mm2 1kv underground cable feeding line (n2xh)
3x25+16 mm2 1kv underground cable feeding line (n2xh)
3x50+25 mm2 1kv underground cable feeding line (n2xh)
3x95+50 mm2 1kv underground cable feeding line (n2xh)
4x2.5 mm2 1kv underground wiring line (n2xh)
4x4 mm2 1kv underground wiring line (n2xh)
4x6 mm2 1kv underground cable feeding line (n2xh)
4x10 mm2 1kv underground cable feeding line (n2xh)
4x16 mm2 1kv underground cable feeding line (n2xh)
Column and feed line installation with 4x70 mm2 underground cables (N2XH, 0,6 / 1kV)
1x95rm flame resistant n2xhfe 180 0.6 / 1kv cable
1x120rm flame resistance n2xhfe 180 0.6/1kv cable
3x1.5re flame resistance n2xhfe 180 0.6/1kv cable
4x6re flame resistance n2xhfe 180 0.6/1kv cable
4x16re flame resistance n2xhfe 180 0.6/1kv cable

WIRING & SENSING INSTALLATION

Definition
3x1.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
12-zone addressable fire alarm control panel, 1 cycle, 127 address capacity, 12 fire zone indicators.
Optical smoke detector with addressable short circuit isolator
Temperature detector with addressable short circuit isolator
Combined optical smoke and temperature detector with addressable short circuit isolator
Resettable fire alarm button with addressable short circuit isolator
Relay module with addressable short circuit isolator
Contact monitoring module with addressable short circuit isolator
Addressable, short circuit isolator, loop-powered strobe siren
1 FOR POWER PLANT Addressable fire detection system graphical monitoring / management software and hardware
1 Software and hardware for integration of CCTV system of fire detection and alarm system for power plant
Parallel warning light
Addressable natural gas detector
Automatic gas and energy cut-off device that detects earthquake motion
Continuously lit emergency routing luminaire (3-hour, single-sided, with fluorescent lamp)

Continuously lit emergency routing luminaire (3 hours, double face, with fluorescent lamp)
JH (ST) Halogen Free Fire Alarm Cables 2x2x0.8 + 0.8 mm2
JH (ST) Halogen Free Fire Alarm Cables 2x2x1.5 + 1.5 mm2

LLATION ESTIMATE

Definition
3000 anis-lumens, 1024x768 resolution projection
400 x 300 motorized screen
Rg 6 / u-4 a, 75 impedance coaxial cables
120cm OFFSET ANTENNA
9/8 CASCADE MULTISWITCH
Finite Tv / Rd Outlet
F CONNECTOR 10,4 mm - With tightening
QUADRO LNB 0.3 Db

ROADCASTING INSTALLATION

Definition
Switching power supply unit; 1 Ah
Voice alarm system control unit, at least 8 zones
Digital voice alarm call station, at least 8 zones
Ceiling Speaker
Wall Speaker
12 channel audio control and recording mixer
1 x 31 band graphic equalizer
Digital processor crossover
12 " full range speaker
Stage box
Channel selector, (triple)
Handheld 16 channel uhf radio microphone set
Collar type 16 channel uhf radio microphone set
2 x 100 w power amplifier
2x2x0.75mm2 lih (st) h halogen free signal and control cable
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Rack cabinets 12u 600 mm * 600 mm 19 "
Product's accessory wheel brake group
Product's accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse

ALLATION

Definition
15 kva Uninterruptible power supply with three-phase input, three-phase output with battery supply up to 10 minutes
Snmp software and adapter

MENT LIGHTING INSTALLATION

Definition

Surface mounted sheet metal up to 0,10 - 0,20m2 (including 0,20 m2) (TS 3367 EN 60439-1)
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 25 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Residual current circuit breaker up to 4 * 25 a (30ma)
up to 3x25 toggle type pako switches: (on the table) (ts 4915 en 60669-1, ts en 60947-3)
Indicator lamp up to 250 v
Dry type contactor without protection 3 * 16 a.
Timer used in lighting control
Photocell switch
Free-laying grounding line without pipe 16 mm2
1kv underground cable column and supply line 2 * 4 mm2 nyy (TS IEC 60502-1 + A1)
1kv underground cable column and supply line 3 * 4 mm2 nyy (TS IEC 60502-1 + A1)
1kv underground cable column and supply line 4 * 4 mm2 nyy (TS IEC 60502-1 + A1)
Ø 50 mm PE cable enclosure corrugated pipe
Earth electrode (rod), electrolytic copper
70W

VARY INSTALLATION

Definition
Active excitation tip average stimulation path l = 60 mt
Roof pillar (for active catch)
Lightning Counter
Active lightning rod tester
Roofing Conductor and Lowering Conductor 25mm2 Electrolytic Copper Conductor

CENTER CABLE INSTALLATION

Definition
Ø1000 mm inner diameter, input-output diameter Ø 200/300/400 mm Manhole Base
Surface mounted sheet metal up to 0,20 - 0,30m2 (including 0,30 m2) (TS 3367 EN 60439-1)
Supply and installation of copper busbar in accordance with TSE requirements to be placed in casting box and panels and painting to the colors in TS EN 60445.
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 25 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 40 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Residual current circuit breaker up to 4 * 25 a (30ma)
Residual current circuit breaker up to 4 * 25 a (300ma)
up to 3x25 toggle type pako switches: (on the table) (ts 4915 en 60669-1, ts en 60947-3)
Dry type contactor with thermal protection 3 * 16 a.
Dry type contactor with thermal protection 3 * 25 a.
1x2,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x4 mm2 Plastic insulated conductor (HO7Z, O7Z1)
3x1.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
3x2.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
4x2.5 mm2 1kv underground wiring line (n2xh)
4x4 mm2 1kv underground wiring line (n2xh)
4x4re flame resistant n2xhfe 180 0.6 / 1kv

Halogenfree cable and safety line normal sorties
Normal sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Commander sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Safety line socket sortie with Halogenfree cable.
Linye and sorti lines lead-free antigron (NHXMH) type of material with normal socket sorties
Surface-mounted, min 30x30 size, LED ceiling light with LED (luminous flux at least 1000 lm, maximum consumption of 12 w)
Recessed, circular downlight with LED (luminous flux at least 1700 lm, max. Consumption 24 W)
Surface mounted, downlight armature(luminous flux at least 800 lm, max. Consumption of 12 W)
LED Surface Mounted Waterproof Luminaire (Polycarbonate housing) Luminous flux at least 3600 lm, consumption value up to 40 W.
Led lighting fixtures for emergency lighting kit price difference
360° ceiling mounted surface mounted motion sensor
Optical smoke detector with addressable short circuit isolator
Temperature detector with addressable short circuit isolator
Combined optical smoke and temperature detector with addressable short circuit isolator
Resettable fire alarm button with addressable short circuit isolator
Relay module with addressable short circuit isolator
Contact monitoring module with addressable short circuit isolator
Addressable, short circuit isolator, loop-powered strobe siren
Continuously lit emergency routing luminaire (3-hour, single-sided, with fluorescent lamp)
Telephone system sortie
JH (ST) Halogen Free Fire Alarm Cables 2x2x0.8 + 0.8 mm ²
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Conductor for building construction 50 mm ² copper wire
Conductor for building construction 30 × 3.5 mm galvanized steel plate
Earth electrode (rod), electrolytic copper
Conductive protective tube
Thermocouple attachment up to 150 gr.
ETHANGE THERMOPLASTIC COMPLETE SOCKET OUTLET BOX (INCLUDING SETS AND FUSES)

OR INSTALLATION

Definition
Diesel generator set installation 1500 rpm. 500 kva
Soundproofing cabinet 500 kva

SATION INSTALLATION

Definition
Front covered sheet panel (TS EN 61439-1 / 2)
Up to 450 Va Centrally controlled batteries with automatic control
Up to 450 Va Automatically controlled, additional compensation batteries with harmonic filter (according to TS EN 60255-1)
Reactive Power Control Relay (SVC) (Minimum 12 steps)
400V Shunt Reactor up to 25 kVAr

TALLATION

Definition

3x2.5 mm ² 1kv underground cable feeding line (n2xh)
Utp cat6 patch panel with 24 ports
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Free standing cabinets 20u 600 mm * 800 mm 19 "
Product's accessory wheel brake group
Product's accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse
Product's accessory 19 "1u horizontal cable organizer
Product's accessory 20u vertical cable organizer
SELECTION AND CONTROL KEYBOARD
21.5 " LED COLOR MONITOR
USER / MONITORING PC
INTERNAL VANDAL PROOF 2MP FIX / BOX DOME IP CAMERA (D / N) (INCLUDING FOOT, LENS, 12V DC 1A CAM ADAPTER, etc)
EXTERNAL VANDAL PROOF 2MP FIX / BOX DOME IP CAMERA (D / N) (INCLUDING FOOT, LENS, 12V DC 1A CAM ADAPTER etc)
32 Channel NVR (Min 44TB Recording Platform)
24 PORT PoE SWITCH Gbit

R INSTALLATION

Definition
2 Stops, 1,00 m / s speed, Class 1 elevator, Class 2 elevator without engine room, stepless speed, rated load: 800 kg

FORMER INSTALLATION

Definition
2 mm galvanized sheet pans or shelves
INSULATED GLOVES 36KV
INSULATED CARPET 36KV
INSULATED TABLE 36KV
EMPTY TRANSFORMER BOX 2.5 X 7.20 MT
Input-Output Switchgear with Load Disconnecter (MMMh-hd) Motor, 36kV, 630A, 16kA
Output Cell with Breaker (HV MMMh-hd) Separator air ins. 36kV, 630A, 16kA
Current and Voltage Measuring Cell (MMMh-hd) 36 KV, 630A, 16 KA
Maintenance-free battery and rectifier group 24 V 18 Ah
Combi meter (X / 100 V, X / 5 A)
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 200 A Icn = 15kA, 2xIcn, Power Cat: 0.3
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 630 A Icn = 25kA, 2.1xIcn, Power Cat: 0.25
INTERNAL TYPE LV DISTRIBUTION (OUTPUT) PANEL (With Main Switch, Separator) 400 kVA
3X8 - 3X16 A Contactor
3X17 - 3X32 A Contactor
3X33 - 3X45 A Contactor
3X86 - 3X130 A Contactor
REACTIVE POWER RELAY
Galvanized Earthing Strip and Installation (0.8kg / m strip)
2mt Long. 65x65x7 Angle Earthing Electrode with Glv.li.
630 kva, 33 / 0.4-0.231 kv (28.5 -34.5) kv copper winding power transformers
Galvanized STRANDED Steel Wire and Embedding

3x(1 × 50s / 16 mm ²), 20.3 / 35 kv yaxc7v-r (na2xsy); Copper cable (XLPE insulated, PVC outer sheath)
CONSTRUCTION OF CABLE CHANNEL (ASPHALT COATED TUVENAN) (TOTAL)
1 × 50 s / 16 mm ² , 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) Internal type shrink copper cable header
1 × 50 s / 16 mm ² , 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) internal type shrinkage copper cable header
1 × 50 s / 16 mm ² , 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) internal type shrinkage copper cable header

E BUILDING

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	4		
PCS	9		
PCS	9		
PCS	34		
PCS	3		
PCS	1		
PCS	1		
PCS	69		
PCS	15		
PCS	30		
PCS	23		
PCS	30		
PCS	5		
PCS	2		
PCS	57		
PCS	1		
PCS	4		
PCS	20		
PCS	64		
PCS	7		
PCS	1		
PCS	8		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	32		
PCS	3		
PCS	1		
PCS	20		
M	1600		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	3		
PCS	2		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	2150		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	4		
KG	5		
M	193		
M	300		
PCS	6		
PCS	50		
PCS	21		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	5		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	69		
PCS	10		
PCS	5		
PCS	1		
PCS	3		
PCS	4		
PCS	1		
PCS	1		
PCS	13		
PCS	9		
PCS	1		
PCS	3		
PCS	3		
PCS	15		
PCS	3		
PCS	5		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	30		
PCS	1		
PCS	1		
PCS	3		

PCS	6		
PCS	1		
M	50		
M	365		
M	54		
M	77		
M	240		
M	70		
M	435		
M	15		
M	1590		
M	54		
M	30		
M	30		
M	1210		
M	400		
M	65		
M	15		
M	30		
M	43		
M	77		
M	95		
M	70		
M	315		
M	30		
M	350		
M	400		
M	365		
M	145		
M	25		
			-

Unit	Amount	Unit Price (€)	Total (€)
MT	175		
PCS	1		
PCS	24		
PCS	29		
PCS	5		
PCS	5		
PCS	4		
PCS	2		
PCS	12		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	6		

PCS	10		
M	500		
M	150		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	2		
m	120		
PCS	6		
PCS	2		
PCS	8		
PCS	8		
PCS	6		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
PCS	1		
PCS	9		
PCS	15		
PCS	1		
PCS	1		
PCS	1		
PCS	6		
PCS	1		
PCS	1		
PAIR	2		
PAIR	2		
PCS	1		
M	720		
M	50		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
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PCS	1		
PCS	3		
PCS	4		
PCS	1		
PCS	1		
PCS	2		
PCS	3		
PCS	2		
PCS	1		
PCS	1		
M	230		
M	40		
M	40		
M	150		
M	230		
PCS	2		
PCS	12		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
PCS	1		
PCS	1		
M	50		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	1		
KG	1		
PCS	14		
PCS	6		
PCS	3		
PCS	1		
PCS	2		
PCS	1		
PCS	7		
PCS	4		
PCS	3		
M	42		
M	49		
M	25		
M	12		
M	42		
M	30		
M	4		

PCS	1		
PCS	1		
PCS	3		
PCS	4		
PCS	1		
PCS	1		
PCS	1		
PCS	4		
PCS	11		
PCS	4		
PCS	1		
PCS	1		
PCS	3		
PCS	1		
PCS	3		
PCS	6		
PCS	10		
PCS	1		
PCS	4		
PCS	1		
M	40		
M	100		
M	60		
M	57		
PCS	4		
PCS	6		
PCS	7		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
KVAR	30		
KVAR	229		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
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PCS	250,000		
PCS	1		
PCS	550		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	9		
PCS	8		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	20		
PAIR	1		
M2	2		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	5		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
M	40		
PCS	5		
PCS	1		
M	115		

M	150		
M3	24		
PCS	3		
PCS	3		
PCS	3		
			-

Ministry of Env	
No	Dwg. No
1	ARC1
2	ARC2
3	ARC3
4	ARC4
5	ARC5
6	ARC6
7	ARC7
8	ARC8
9	ARC9
10	ARC10
11	ARC11
12	ARC12
13	ARC13
14	ARC14
15	ARC15
16	ARC16
17	ARC17
18	ARC18
19	ARC19
20	ARC20
21	ARC21
22	ARC22
23	ARC23
24	ARC24
25	ARC25
26	ARC26
27	ARC27
28	ARC28
29	ARC29
30	ARC30
31	ARC31
32	ARC32
33	ARC33
34	ARC34
35	ARC35
36	ARC36

37	ARC37
38	ARC38
39	ARC39
40	ARC40
45	ARC45
47	ARC47
48	ARC48
49	ARC49
50	ARC50
51	ARC51
53	ARC53
54	ARC54
55	ARC55
56	ARC56
57	ARC57
58	ARC58
59	ARC59
60	ARC60
61	ARC61
62	ARC62
63	ARC63

Ministry of Env	
No	Dwg. No
1	ARC 64
2	ARC 65
3	ARC 66
4	ARC 67
5	ARC 68
6	ARC 69
7	ARC 70
8	ARC 71
9	ARC 72
10	ARC 73
11	ARC 74

12	ARC 75
13	ARC 76
14	ARC 77
15	ARC 78
16	ARC 79
17	ARC 80
18	ARC 81
19	ARC 82
20	ARC 83
21	ARC 84
22	ARC 85
23	ARC 86
24	ARC 87
25	ARC 88
26	ARC 89
27	ARC 90
28	ARC 91
29	ARC 92
30	ARC 93
31	ARC 94
32	ARC 95
33	ARC 96
34	ARC 97
35	ARC 98
36	ARC 47
37	ARC 99
38	ARC 100
39	ARC 101
40	ARC 102
41	ARC 103

ERCİŞ ATELIER CONSTRUCTION CIVIL-ARCHITECTURAL WORKS OF ATELIER and ADMINISTRATION

Environment and Urbanization Prices

Definition
Soft rock excavation without using any kind of explosive material. (free excavation).
Sand providing, laying, manual laying, irrigation and compaction
Drainage by providing gravel
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
REPLACEMENT OF deformed concrete reinforcing steel mesh of 1,500-3,000 kg / m ² (including 3,000 kg / m ²)
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Prefabricated Reinforced Concrete Manufacturing and Substitution Using C30/37 Ready Mixed Concrete
Construction of flat surface reinforced concrete formwork with Plywood
Fully secure, scaffolding for ceilings made of pre-fabricated components. (0.00-21.50 m)
To supply and install HDPE based drainage and protection boards on the waterproofing in basement walls (150? Compressive strength <200 KN / m ²).
Providing and installation of pvc-based corrugated drainage pipe with a nominal diameter of Ø 200 mm
Blockage with hearthstone
Wall, with 10 cm thick non-bearing bimsbeton wall blocks, (with bimsbeton glue) (min. 1,50 n / mm ² and 600-900 kg / m ³ , excluding 900 kg / m ³).
Geotextile felt laying weighing 150 gr / m ²
Making 400kg of cement dose screed with a thickness of 2.5 cm
Two layers of waterproofing required by using 3 mm thick elastomer based (-20 ° C cold bending) polyester felt carrier polymer bitumen covers
Cement based single component crystallized waterproofing mortar should be reinforced with mesh and waterproofing should be done in 2 layers with a total thickness of 1.5 mm
200/250 kg lime / cement mixture should be applied with thick and thin mortar (interior plaster)
One coat of rough plaster should be applied with 350 kg cement dose mortar
To apply satin gypsum coating on bare concrete, thin plaster, gypsum plaster etc. Surfaces
To make single layer gypsum plaster on the walls with ready machine plaster (20mm thickness).
(25 x 33 cm) or (25 x 40 cm) nominal sizes, all kinds of pattern and surface properties, 1st quality, colored ceramic wall tiles and 3 mm joint spacing wall covering (with tile adhesive).
40 x 40 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive).
60 x 60 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive)
To make a parapet with 3 cm thick white marble slab (3cmx30-40-50cmx free size) (honed or polished).
To make jamb with 2 cm thick colored marble slab (2cmx30-40-50cmx free size) (honed or polished)
Production and replacement of electrostatic powder coated aluminum joinery without heat insulation
Colored-matt and anodized heat-insulated aluminum joinery manufacturing and putting into place.
Fitting the interior and exterior door lock with recessed cylinder (wide and narrow type) (wood, metal, plastic)
Fitting door handles and mirrors (chrome plated) (Wood, Metal, Plastic)
Fitting the rubber-head bumper (wood, metal, plastic)
Fitting the hinge (wood, metal, plastic)
Installation of the bolt (vertical fixing set) (wood, metal, plastic)
Placing the hinge

Placement of the espagnolette assembly (incl. Arm) up to 180 cm, with 3 clutches (wood, metal and plastic) (with written permission of the administration)
4 mm thick flat glass window unit installation with PVC and aluminum joinery
Using the profile, the first glass with 4 + 4 mm thickness and 16 mm spacing with double-glazed window with sun and heat control coating should be attached to the pvc and aluminum joinery.
Laminate coated, two sides made of wood fiber boards (MDF) pressed, kraft filled interior door leaf made and the door installation
Concealed carrier system suspended ceiling is required by using 30 * 30 cm size 0.70 mm thick min.20 micron electrostatic powder coated (polyester based) back side covered with acoustic fabric perforated aluminum plate (en aw 3000 series).
The preparation of exposed concrete surfaces for gypsoplast or plaster (interior wall).
To apply two layers of water-based silk-matte paint (interior façade) by applying primer to newly plastered surfaces
To apply two layers of water-based silk-matte paint (interior façade) by applying primer to satin plaster and plasterboard surfaces.
Placing windows and doors with square and rectangular profiles
2.00 mm thick flat black sheet metal bending door frame and put into place.
Heat-insulated sandwich clamp system roof covering of 0.65 mm trapezoidal painted galvanized sheet with 8 cm stone wool filling on top and bottom of existing wooden, steel, reinforced concrete beam or purlin roof.
Concrete Covering of Field, Retarder, Road, Car Park, Hangar and Workshop (Using Ready-Mixed Concrete)
Floor covering with Bulancak smoked granite plaque
Stairs making with bulancak smoked granite plaqueasi
Partition board and door should be made with 13 mm compact laminate
Stainless Steel Stair Railing and Handrail
Fire door with a panic bar with a resistance of 120 minutes
STEEL DOOR 120/220
INDUSTRIAL DOOR 405/440
ACOUSTIC TILE CARPET COATING 50X50
SMOKE DRAIN CHIMNEY

CIVIL-ARCHITECTURAL WORKS of HEATING CENTER BUILDING

Environment and Urbanization Prices

Definition
Silicone based water based exterior paint
Soft rock excavation without using any kind of explosive material. (free excavation).
Sand providing, laying, manual laying, irrigation and compaction
Drainage by providing gravel
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Construction of flat surface reinforced concrete formwork with Plywood
Providing and installation of pvc-based corrugated drainage pipe with a nominal diameter of Ø 200 mm
Blockage with hearthstone

Wall, with 10 cm thick non-bearing bimsbeton wall blocks, (with bimsbeton glue) (min. 1,50 n / mm ² and 600-900 kg / m ³ , excluding 900 kg / m ³).
Geotextile felt laying weighing 150 gr / m ²
Making 400kg of cement dose screed with a thickness of 2.5 cm
Two layers of waterproofing required by using 3 mm thick elastomer based (-20 ° C cold bending) polyester felt carrier polymer bitumen covers
Cement based single component crystallized waterproofing mortar should be reinforced with mesh and waterproofing should be done in 2 layers with a total thickness of 1.5 mm
200/250 kg lime / cement mixture should be applied with thick and thin mortar (exterior plaster)
200/250 kg lime / cement mixture should be applied with thick and thin mortar (interior plaster)
Rough and thin mortar plaster (ceiling plaster) with 250/350 kg lime / cement mixture
One coat of rough plaster should be applied with 350 kg cement dose mortar
Construction of free standing roof (with wooden plank under the roof)
Waterproofing under sloped roofs under the roof cover with a laminated polymer bitumen cover with glass film carrier on both sides covered with polyethylene film of minimum 1 mm thickness
(25 x 33 cm) or (25 x 40 cm) nominal sizes, all kinds of pattern and surface properties, 1st quality, colored ceramic wall tiles and 3 mm joint spacing wall covering (with tile adhesive).
40 x 40 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive).
Interior floor covering with marble aggregate terrazo tile (breaking load conditions (class 1) surface area <= 1100cm ² , honed or polished)
To make a parapet with 3 cm thick white marble slab (3cmx30-40-50cmx free size) (honed or polished).
Colored-matt and anodized heat-insulated aluminum joinery manufacturing and putting into place.
Fitting the interior and exterior door lock with recessed cylinder (wide and narrow type) (wood, metal, plastic)
Fitting door handles and mirrors (chrome plated) (Wood, Metal, Plastic)
Fitting the hinge (wood, metal, plastic)
Placing the hinge
Placement of the espagnolette assembly (incl. Arm) up to 180 cm, with 3 clutches (wood, metal and plastic) (with written permission of the administration)
Using the profile, the first glass with 4 + 4 mm thickness and 16 mm spacing with double-glazed window with sun and heat control coating should be attached to the pvc and aluminum joinery.
Laminate coated, two sides made of wood fiber boards (MDF) pressed, kraft filled interior door leaf made and the door installation
Two coats of anticorrosion and two coats of synthetic paint are required on iron surfaces.
Preparation of gross concrete surfaces for gypsum or plaster (interior wall)
Two layers of water-based silk-matte paint by applying primer on new plaster surfaces (interior wall)
Placing windows and doors with square and rectangular profiles
2.00 mm thick flat black sheet metal bending door frame and put into place.
Painted Trapezoidal Section Steel Roofing
STEEL DOOR

ACTIVE BUILDING

Unit	Amount	Unit Price (€)	Total (€)
m ³	3693,04		
m ³	10,536		
m ³	24,584		
m ³	324,192		
m ³	782,28		
TON	12,51		
TON	21,523		
TON	42,049		
m ³	195,44		
m ²	2223,63		
m ³	5540,805		
m ²	122,92		
m	195,6		
m ³	462,096		
m ²	536,589		
m ²	1620,69		
m ²	466,81		
m ²	1743,88		
m ²	63,58		
m ²	200,959		
m ²	326,088		
m ²	1048,498		
m ²	466,117		
m ²	300,054		
m ²	104,01		
m ²	238,04		
m ²	19,39		
m ²	4,16		
KG	205,578		
KG	798,34		
PCS	24		
PCS	24		
PCS	24		
PCS	108		
PCS	12		
PCS	141		

PCS	49		
m ²	30,439		
m ²	56,712		
m ²	30,58		
m ²	13,8		
m ²	65,684		
m ²	210,47		
m ²	1048,498		
KG	1135,334		
KG	139,356		
m ²	2641,668		
m ³	302,786		
m ²	4,03		
m	30,45		
m ²	26,4		
KG	165,537		
PCS	2		
PCS	1		
PCS	2		
m ²	121,69		
PCS	10		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	254,200		
m ³	157,266		
m ³	3,540		
m ³	8,260		
m ³	30,228		
m ³	113,157		
TON	3,334		
TON	5,655		
m ²	299,250		
m	89,000		
m ³	15,114		

m²	203,450		
m²	151,140		
m²	119,760		
m²	162,940		
m²	3,960		
m²	254,200		
m²	292,812		
m²	119,760		
m²	28,900		
m²	151,140		
m²	166,254		
m²	28,900		
m²	3,960		
m²	115,800		
m²	1,024		
KG	34,726		
PCS	5,000		
PCS	5,000		
PCS	15,000		
PCS	7,000		
PCS	3,000		
m²	1,632		
m²	1,980		
m²	25,424		
M2	145,632		
m²	383,672		
KG	281,479		
KG	27,136		
m²	158,697		
PCS	1,000		
			-

Ministry of Env	
No	Dwg. No
1	LSCP32
2	LSCP1
3	LSCP2
4	LSCP3
5	LSCP4
6	LSCP5
7	LSCP6
8	LSCP7
9	LSCP8
10	LSCP9
11	LSCP10
12	LSCP11
13	LSCP12
14	LSCP13
15	LSCP14
16	LSCP15
17	LSCP16
18	LSCP17

Ministry of Env	
No	Dwg. No
1	LSCP18
2	LSCP19
3	LSCP20
4	LSCP21
5	LSCP22
6	LSCP23
7	LSCP24
8	LSCP25
9	LSCP26
10	LSCP27
11	LSCP28
12	LSCP29
13	LSCP30
14	LSCP31
15	LSCP33
16	LSCP34

17	LSCP35
18	LSCP36

ERCİŞ ATELIER CONSTRUCTION LANDSCAPE WORKS OF SITE

Environment and Urbanization Prices

Definition
Soft and hard digging loose rock by machine (free excavation)
Soft rock excavation without using any kind of explosive material. (free excavation).
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Construction of flat surface reinforced concrete formwork with Plywood
Blockage with hearthstone
10 cm high normal cemented steam cured concrete cobblestone floor covering (any size, color and design)
Installation of 50 x 20 x 10 cm normal cemented steam cured concrete border (bevelled, each color)
Laying of normal cemented steam cured concrete gutter in "30 x 10 x free size" cm dimensions (each color)
Two coats of anticorrosion and two coats of synthetic paint are required on iron surfaces.
Placing windows and doors with square and rectangular profiles
Supply of Soil
PLANT SOIL SPREADING OF 10-15 CM THICKNESS
Grass Seed Plant
USING DOUBLE COMPONENT PAINT OF 2 MM THICKNESS: DRAWING OF PEDESTRIAN CROSSES, SLOWING WARNING AND STRIP LINES
Site Security Cabin (270x270)

INFRASTRUCTURAL WORKS OF SITE

Environment and Urbanization Prices

Definition
Corrugated drainage pipes with nominal diameter Ø = 100 mm (PVC based) (TS 9128)
Ø = 150 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 8)
Ø = 100 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 4)
Ø = 125 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 4)
Ø =75 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø =110 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø =160 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø 100 mm one end muffled rigid PVC pipe (rain water pipe) (TS EN 1329-1, TSE CEN / TS 1329-2)
Ø 160 mm one end muffled rigid PVC pipe (rain water pipe) (TS EN 1329-1, TSE CEN / TS 1329-2)
Brass chrome-plated grate 20x20 cm, Bath strainer (according to TS 327/2)
Making trench and foundation filling with excavation material machine
Cast iron 20x20 cm. Floor drain with Ø 70 outlet
Soft and hard soil excavation with machine (Free excavation)
Sand providing, laying, manual laying, irrigation and compaction
Exterior diameter Ø 120 mm, pre-insulated steel pipe, bearer pipe mention size 2"
Exterior diameter Ø 160 mm, pre-insulated steel pipe, bearer pipe mention size 3"

Exterior diameter Ø 90 mm, glass-fiber reinforced pre-insulated pipe, bearer PPR-C pipe mention size Ø 32
Exterior diameter Ø 110 mm, glass-fiber reinforced pre-insulated pipe, bearer PPR-C pipe mention size Ø 40

Unit	Amount	Unit Price (€)	Total (€)
M3	4845,310		
M3	451,434		
M3	292,600		
M3	803,357		
TON	62,447		
TON	0,957		
M2	2762,696		
M3	292,600		
M2	2926,500		
MT	33,550		
MT	170,200		
M2	256,650		
KG	15066,240		
M3	154,500		
M3	154,500		
DA	1,030		
M2	11,200		
pcs	1,000		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	208		
m	136,8		
m	144		
m	102		
m	25		
m	102		
m	25		
m	312		
m	312		
PCS	26		
m ³	591,12		
PCS	26		
m ³	656,8		
m ³	65,68		
m	38		
m	38		

m	120		
m	76		
			-

Ministry of Env
1)SANITARY IN

No	Dwg. No
1	MEC.1
2	MEC.2
3	MEC.3
4	MEC.4
5	MEC.5
6	MEC.6
7	MEC.7
8	MEC.8
9	MEC.9
10	MEC.10
11	MEC.11
12	MEC.12
13	MEC.13
14	MEC.14
15	MEC.15
16	MEC.16
17	MEC.17
18	MEC.18
19	MEC.19
20	MEC.20
21	MEC.21
22	MEC.22
23	MEC.23
24	MEC.24
25	MEC.25
26	MEC.26
27	MEC.27
28	MEC.28
29	MEC.29
30	MEC.30
31	MEC.185

2)VENTILATION

No	Dwg. No
1	MEC.31
2	MEC.32

3)HEATING INS

No	Dwg. No
1	MEC.33
2	MEC.34

3	MEC.35
4	MEC.36
5	MEC.37
6	MEC.38
7	MEC.39
8	MEC.40
9	MEC.41
10	MEC.42
11	MEC.43
12	MEC.44
13	MEC.45
14	MEC.46
15	MEC.47
16	MEC.48
17	MEC.49
18	MEC.50
19	MEC.51
20	MEC.52

4)COMMON IN

No	Dwg. No
1	MEC.53
2	MEC.54
3	MEC.55
4	MEC.56
5	MEC.57
6	MEC.58
7	MEC.59
8	MEC.60
9	MEC.61
10	MEC.62
11	MEC.63
12	MEC.64
13	MEC.65
14	MEC.66
15	MEC.67

16	MEC.68
17	MEC.69
18	MEC.70
19	MEC.71
20	MEC.72
21	MEC.75
22	MEC.76
23	MEC.77
24	MEC.78
25	MEC.79
26	MEC.80
27	MEC.81
28	MEC.82
29	MEC.83
30	MEC.84
31	MEC.85
32	MEC.86
33	MEC.87
34	MEC.90
35	MEC.91
36	MEC.92
37	MEC.93
38	MEC.94
39	MEC.95
40	MEC.96
41	MEC.97
42	MEC.98
43	MEC.99

44	MEC.100
45	MEC.101
46	MEC.102
47	MEC.103
48	MEC.104
49	MEC.105
50	MEC.106
51	MEC.107
52	MEC.108
53	MEC.109
54	MEC.110
55	MEC.186
56	MEC.187
57	MEC.188
58	MEC.189

5)FIRE INSTALL

No	Dwg. No
1	MEC.111
2	MEC.112
3	MEC.113
4	MEC.114
5	MEC.115
6	MEC.116
7	MEC.117
8	MEC.118
9	MEC.119
10	MEC.120
11	MEC.121
12	MEC.122
13	MEC.123
14	MEC.124
15	MEC.125
16	MEC.126
17	MEC.127
18	MEC.128
19	MEC.129
20	MEC.130

21	MEC.131
22	MEC.132
23	MEC.133

6)NATURAL G/

No	Dwg. No
1	MEC.148
2	MEC.149
3	MEC.150
4	MEC.151
5	MEC.152
6	MEC.153
7	MEC.154
8	MEC.155
9	MEC.156
10	MEC.157
11	MEC.158
12	MEC.159
13	MEC.160
14	MEC.161
15	MEC.162
16	MEC.163

7) AUTOMATIC

No	Dwg. No
1	MEC.173
2	MEC.174
3	MEC.175
4	MEC.176
5	MEC.177
6	MEC.178
7	MEC.179
8	MEC.180
9	MEC.181
10	MEC.182
11	MEC.183
12	MEC.184

ERCİŞ ATELIER CONSTRUCTION MECHANICAL WORKS OF MAIN BUILDING

Environment and Urbanization Prices

STALLATION

Definition
45x55 cm Half Pedestal Set washbasin
First class: (Battery TS EN 200 or TS EN 817; Siphon TS-EN 274-1-2-3)
Approx. 40x50 cm mirror
50x60 cm Extra Class plastic siphon peak, Glazed tiles, ALATURKA Lavatory stones (TS.799)
Pressure toilet washer (with flusometer)
Approx. 35x55 cm (Extra quality)
For disabled people, approximately 35x70 cm Extra quality (the height of the toilet seat should be between 43 cm and 48 cm), ALAFRANGA TOILET WITH SELF RESERVOIR AND INSTALLATION
TS EN 200 or TSEN 817 with brass siphon with coil, TS-EN 274-1-2-3 (First class), SINK INSTALLATION
Bathroom set with recessed head and hand shower, built-in bath battery set with hand shower and clapper with water filler
white acrylic shower tray (Monoblock Body) 90x90x11 cm, square, Acrylic shower tray with monoblock body
1/2 "long faucet, incl. Rosette with strainer
Foldable handlebar for the disabled
135° grab bar for the disabled
Toilet seat bar for the disabled
Paper holder for the disabled
Hard plastic 15x15 cm, Floor drain (according to TS-327/3)
50 Ø mm Flanged Cold water meters, Supply and installation of cold water meters in the workplace
140 m3 Prismatic Modular stainless steel water tank
Flow-m ³ / h: 10-30 Pressure-mSS: 60-90, Two Pump, Vertical Shaft, Frequency Converter Booster
100 Ø mm (4 "), galvanized collector tube
25 Ø mm, collector neck: with galvanized sleeves
40 Ø mm, collector neck: with galvanized sleeves
50 Ø mm, collector neck: with galvanized sleeves
65 Ø mm flanged collector neck: with galvanized sleeves
100 Ø mm, Ventilation pipe and cap
60 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
80 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
100 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
Grating job
Liquid Soap Machine(Countertops Stainless) 800 ml
Solid waste oil separator, capacity: 4 lt/sc, thickness: min.3 mm, oil volume: 160 litre

I INSTALLATION

Definition
2,000 m ³ / h, Roof-mounted radial extractors, pressure up to 225 Pascal (25 mm SS)
Construction of rectangular air ducts made of galvanized sheet in dimensions of the project in 0,60 mm, in the widest edge up to 600 mm (including 600 mm)

TALLATION

Definition
Panel radiator, (Type 22) 600
Heat power kcal / h: 8.000, Maximum air quantity m ³ / h: 1.500, Hot air devices with radial fans (Wall hanging

15 Ø mm (1/2 "), Corner type radiator tap (TS 579)
20 Ø mm (3/4"), Corner type radiator tap (TS 579)
400 mm long, Radiator Connection Pipe
108/3,71 Ø mm welded pipe, collector pipe
133/4,0 Ø mm welded pipe, collector pipe
159/4,5 Ø mm welded pipe, collector pipe
Nozzle diameter 50 Ø mm, collector nozzles
Nozzle diameter 80 Ø mm, collector nozzles
Nozzle diameter 100 Ø mm, collector nozzles
15 m³ / h, Ø219, DN 80, FLANGED BALANCE TANK (FLOW-BODY DIAMETER-INPUT-OUTPUT DIAMETER)
10 Liter, Cylindrical Ventilation tank
8 Atmospheric Operating Pressure: 500 lt, Steel, Closed to Atmosphere, changeable diaphragm expansion
107.000 kcal / h, Wall hung gas fired condensing boiler
Ø = 450, Insulated Stainless Steel Chimney (Exterior Coating Stainless Steel)
Supply and installation of spiral protective sleeve used in PE-Xa, PE-Xb and PE-RT pipes Ø16- Ø17
1 "collector with 6 outlets and mini ball valve
1 "collector with 7 outlets and mini ball valve
1 "collector with 9 outlets and mini ball valve

STALLATION

Definition
Welded black pipe 1"
201-400 Screwed pipe installation material cost in building
Welded black pipe (1 1/4")
201-400 Screwed pipe installation material cost in building
Welded black pipe 1 1/2"
201-400 Screwed pipe installation material cost in building
Welded black pipe 2"
201-400 Screwed pipe installation material cost in building
Welded black pipe (3")
201-400 Screwed pipe installation material cost in building
Welded black pipe (4")
201-400 Screwed pipe installation material cost in building
Welded black pipe (1/2")
201-400 Screwed pipe installation material cost in building
Welded black pipe (3/4")
201-400 Screwed pipe installation material cost in building
Welded black pipe (1")
201-400 Screwed pipe installation material cost in building
Welded black pipe (1 1/4")
201-400 Screwed pipe installation material cost in building
Welded black pipe (2")
201-400 Screwed pipe installation material cost in building
Welded black pipe (2 1/2")
201-400 Screwed pipe installation material cost in building
Pn 20 Polypropylene Clean Water Pipe 3/4 "25 / 4.2mm Polypropylene Clean Water Pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 3/4 "25 / 4.2 mm Polypropylene Clean Water Pipes
Pn 20 Polypropylene Clean Water Pipe 1 "32 / 5.4mm Polypropylene Clean Water Pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 1 "32 / 5.4mm Polypropylene Clean Water Pipes
Pn 20 polypropylene pipe 1 1/4 "40 / 6.7 mm Polypropylene clean water pipes

204-3300 Pn 20 Polypropylene Clean Water Pipe 1 1/4 "40 / 6.7 mmPolypropylene Clean Water Pipes
2 "63 / 8.6 (Nominal Size Diameter / Wall thickness (Ø mm) PN 20 polypropylene tubes with ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
204-3300 2 "63 / 8,6 (Nominal Size Diameter / Wall thickness (Ø mm.) PN 20 polypropylene tubes ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
3" 90/12,3 2 "63 / 8.6 (Nominal Size Diameter / Wall thickness (Ø mm) PN 20 polypropylene tubes with ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
204-3300 Pn 20 polypropylene pipes 2 1/2 ", 75 / 12.5 mm Polypropylene clean water pipes
Rigid PVC plastic drain pipe (plug-in plug, diameter: 50-40 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 75-70 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 100-110 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
PE-Xa Oxygen Barrier Tube 50x4,6 mm
PE-Xa Oxygen Barrier Tube 63x5,8 mm
204-970 B.F.T. In case PE-Xa pipes 204-920 / 1-2 and 204-930 are used in heating installation, the amount of the assembled pipe amount as connection elements, fastening materials, flange and gasket counterparts
15 Ø mm (1/2 "), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
20 Ø mm (3/4"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
25 Ø mm (1"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
32 Ø mm (1 1/4"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
40 Ø mm (1 1/2"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
50 Ø mm (2"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
40 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
50 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
65 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
80 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
100 Ø mm, PN 10-16 Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
65 Ø mm with flange, strainer, PN-16, for steam and superheated water, cast iron body with diameters greater than Ø = 65 internal filter with stainless steel, screw or flange
100 Ø mm with flange, strainer, PN-16, for steam and superheated water, cast iron body with diameters greater than Ø = 65 internal filter with stainless steel, screw or flange
50 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
65 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
80 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
Pipe Outer Diameter (3/4 ") 27 Ø mm ----- Glass Wool Wall Thickness: 25 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 ") 33 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 1/4 ") 42 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 1/2 ") 48 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (2 ") 60 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)

Pipe Outer Diameter (2 1/2 ") 76 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
(4 ") 114 Ø mm 40 mm, Glass wool based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
15 Ø mm between 50 Ø mm (1/2 "-2") (2 ") 50 mm included, Pipe painting, watercolor paint
50 Ø mm between 100 Ø mm (1/2 "-2") (2 ") 100 mm included, Pipe painting, watercolor paint
100 Ø mm between 150 Ø mm (1/2 "-2") (2 ") 150 mm included, Pipe painting, watercolor paint
(1/2 ") 22 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
3/4") 28 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1") 35 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1 ¼") 42 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1 ½") 48 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(2") 60 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
DN 70, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
DN 100, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
DN 125, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
Welded black pipe (5")
201-400 Screwed pipe installation material cost in building

ATION

Definition
DN 100, above ground fire hydrant (TS EN 14339, 14384, 1074-6)
Hose Diameter DN 25 Hose Length 25 m, Tubular Model Fire Cabinets, TS. EN 671-1 NORMS
Pendent DN 20, Automatic Fire Sprinklers for Standard Applications
Price difference to be paid for White Painted, Fire Sprinkler or Open Fire Water Spray Nozzle Additions
DN 32, Test and drain valve, threaded, brass
DN 150, Wet Alarm Valve Station
DN 65, Traceable Flange Compression Butterfly Valve
DN 80, Traceable Flange Compression Butterfly Valve
DN 150, Traceable Flange Compression Butterfly Valve
DN 65, Traceable rising stem valve
DN 200, Trackable Rising Ball Valve
DN 65, Fire Check Valve
DN 200, Fire Check Valve
Fire Department Connection Mouth
Dropping Valve Addition, Price difference for fire brigade connection mouth
Backplate Supplementary, Price Difference for Firemen Connection Mouth
Nominal Flow Rate 120-126 m ³ / h, Rated Head 100 mSS, Horizontal Line Type Fire Pump, Electric Motor
Rated Flow 5,0 m ³ / h, Rated Head 80 mSS, Electric Motor Leakage Pump Group
DN 150 Pump Flowmeter, Pump Flowmeter
Welded galvanized pipe (2")
201-400 Screwed pipe installation material cost in building

Welded galvanized pipe (2 1/2 ")
201-400 Screwed pipe installation material cost in building
Welded galvanized pipe (3")
201-400 Screwed pipe installation material cost in building
80 Ø mm Screw or Flanged, pressure reducing valve, for water

AS INSTALLATION

Definition
Outer Diameter / Wall Thickness (mm): 33,4 / 3,4, STEEL PIPES (For natural gas industry steel pipelines)
201-400 Screwed pipe installation material cost in building
Outer Diameter / Wall Thickness (mm): 42,2 / 3,6, STEEL PIPES (For natural gas industry steel pipelines)
201-400 Screwed pipe installation material cost in building
Outer Diameter / Wall Thickness (mm): 48,3 / 3,7, STEEL PIPES (For natural gas industry steel pipelines)
201-400 Screwed pipe installation material cost in building
Outer Diameter / Wall Thickness (mm): 60,3 / 3,9, STEEL PIPES (For natural gas industry steel pipelines)
201-400 Screwed pipe installation material cost in building
Outer Diameter / Wall Thickness (mm): 76,0 / 5,2, STEEL PIPES (For natural gas industry steel pipelines)
201-400 Screwed pipe installation material cost in building
Outer Diameter / Wall Thickness (mm): 88,9 / 5,5, STEEL PIPES (For natural gas industry steel pipelines)
201-400 Screwed pipe installation material cost in building
25 Ø mm (1 ") threaded, brass press made teflon seal, full bore, NATURAL GAS BALL VALVES (TS EN 331)
40 Ø mm (1 1/2 ") screwed, brass press manufactured teflon gasket, full bore, NATURAL GAS BALL VALVES (TS EN 331)
25 Ø mm, Ductile iron or steel cast body, made of stainless steel ball sphere made of teflon plate spring reinforced gasket, full bore, three-piece, flanged, NATURAL GAS BALL VALVES (TS EN 331)
40 Ø mm, Ductile or steel cast body, made of stainless steel ball sphere made of teflon plate spring reinforced gasket, full bore, three-piece, flanged, NATURAL GAS BALL VALVES (TS EN 331)
80 Ø mm, Natural Gas Ball Valves (TS 9809)
DN 32 (1 1/4 ") With screw, Solenoid with operating pressure up to 500 mbar normally open
Solenoid with flange DN 80 (3 "), operating pressure up to 500 mbar normally open
80 Ø mm, double bellows, angular, lateral, axial movement expansion joint (compensator)
Flanged filters with DN 80 (3 ") flange, operating pressure up to 2 Bar (TSE 10276)
Natural gas project drawing, approval and fees

CONTROL INSTALLATION

Definition
2-position electric immersion thermostat with contact up to 100 ° C
Outdoor air temperature sensor
Proportional controlled electronic hot water control panel
Servomotor position limitation addition
Addition of temperature gauge for electronic temperature control panel
Interlocking inside or outside of the panel, for electronic temperature control panel
Heat level addition to temperature control panel for electronic temperature control panel
Valve 50 mm and smaller, for damper smaller than 2 m ²
Contact insert mounted in the servomotor
Hand control potentiometer mounted on servomotor
Servomotor connection mechanism for 50 mm and small valves
DN 80, three way, PN 16, with flange connection, control valve body

Unit	Amount	Unit Price (€)	Total (€)
PCS	7		
Set	7		
PCS	7		
PCS	2		
Set	2		
Set	5		
PCS	1		
PCS	1		
Set	3		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	8		
PCS	1		
PCS	1		
PCS	1		
m	3		
PCS	1		
PCS	2		
PCS	1		
PCS	2		
PCS	3		
PCS	1		
PCS	1		
PCS	2		
Kg	856,57		
PCS	7		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
m ²	70		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	32,9		
PCS	18		

PCS	60		
PCS	36		
PCS	60		
m	2		
m	2		
m	4		
PCS	8		
PCS	8		
PCS	2		
PCS	1		
PCS	2		
PCS	1		
PCS	3		
m	5		
m	710		
PCS	2		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	433		
-	0,3		
m	116		
-	0,3		
m	32		
-	0,3		
m	206		
-	0,3		
m	104		
-	0,3		
m	34		
-	0,3		
m	44		
-	0,3		
m	46		
-	0,3		
m	26		
-	0,3		
m	33		
-	0,3		
m	22		
-	0,3		
m	20		
-	0,3		
m	75		
-	0,45		
m	60		
-	0,45		
m	88		

-	0,45		
m	20		
-	0,45		
m	20		
-	0,45		
m	18		
-	0,35		
m	21		
-	0,35		
m	342		
-	0,35		
m	33		
m	40		
-	0,35		
PCS	8		
PCS	8		
PCS	23		
PCS	3		
PCS	2		
PCS	1		
PCS	2		
PCS	7		
PCS	3		
PCS	7		
PCS	4		
PCS	1		
PCS	1		
PCS	2		
PCS	2		
PCS	1		
m	9		
m	196		
m	92		
m	152		
m	134		

m	68		
m	44		
m	805		
m	266		
m	56		
m	44		
m	46		
m	26		
m	33		
m	22		
m	20		
m	21		
-	0,35		
m	142		
-	0,35		
m	40		
-	0,35		
m	50		
-	0,3		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	7		
PCS	135		
PCS	135		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	2		
PCS	5		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
m	112		
-	0,3		

m	48		
-	0,3		
m	9		
-	0,3		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	90		
-	0,3		
m	30		
-	0,3		
m	10		
-	0,3		
m	12		
-	0,3		
m	12		
-	0,3		
m	44		
-	0,3		
PCS	1		
PCS	5		
PCS	1		
PCS	5		
PCS	2		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	12		
PCS	10		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	4		
PCS	2		
PCS	2		
PCS	2		
PCS	2		

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03.01 LIGHTING

No	Dwg. No
1	ELEC.49
2	ELEC.93
3	ELEC.94
4	ELEC.95
5	ELEC.96
6	ELEC.97
7	ELEC.98
8	ELEC.99
9	ELEC.100
10	ELEC.101
11	ELEC.104
12	ELEC.105
13	ELEC.106
14	ELEC.108
15	ELEC.110
16	ELEC.111
17	ELEC.112
18	ELEC.113
19	ELEC.114
20	ELEC.223
21	ELEC.224
22	ELEC.225
23	ELEC.226

03.02 DATA & T

No	Dwg. No
1	ELEC.150
2	ELEC.151
3	ELEC.152
4	ELEC.153
5	ELEC.157
6	ELEC.159
7	ELEC.160
8	ELEC.161
9	ELEC.162
10	ELEC.163
11	ELEC.164
12	ELEC.165
13	ELEC.227

03.03 CABLE LIN

No	Dwg. No
1	ELEC.117

03.04 BASIC EA

No	Dwg. No
1	ELEC.1
2	ELEC.19
3	ELEC.174
4	ELEC.175
5	ELEC.176
6	ELEC.177
7	ELEC.178

03.05 PANEL, CI

No	Dwg. No
1	ELEC.9
2	ELEC.12
3	ELEC.13
4	ELEC.16
5	ELEC.17
6	ELEC.18
7	ELEC.20
8	ELEC.21
9	ELEC.22
10	ELEC.23
11	ELEC.24
12	ELEC.25
13	ELEC.26
14	ELEC.27
15	ELEC.28
16	ELEC.29
17	ELEC.30
18	ELEC.32
19	ELEC.207
20	ELEC.208
21	ELEC.33
22	ELEC.209
23	ELEC.34
24	ELEC.210
25	ELEC.35
26	ELEC.37
27	ELEC.38
28	ELEC.39
29	ELEC.40
30	ELEC.42
31	ELEC.211

32	ELEC.54
33	ELEC.55
34	ELEC.56
35	ELEC.57
36	ELEC.62
37	ELEC.63
38	ELEC.64
39	ELEC.65
40	ELEC.66
41	ELEC.67
42	ELEC.68
43	ELEC.69
44	ELEC.70
45	ELEC.72
46	ELEC.212
47	ELEC.76
48	ELEC.213
49	ELEC.78
50	ELEC.79
51	ELEC.214
52	ELEC.82
53	ELEC.83
54	ELEC.84
55	ELEC.85
56	ELEC.215
57	ELEC.216
58	ELEC.217
59	ELEC.218
60	ELEC.219
61	ELEC.91
62	ELEC.92

03.06 ELEVATO

No	Dwg. No
1	ELEC.166

03.07 UPS INST.

No	Dwg. No
1	ELEC.115
2	ELEC.116

03.08 FIRE WAF

No	Dwg. No
1	ELEC.71
2	ELEC.118

3	ELEC.119
4	ELEC.120
5	ELEC.121
6	ELEC.122
7	ELEC.123
8	ELEC.124
9	ELEC.125
10	ELEC.126
11	ELEC.127
12	ELEC.129
13	ELEC.130
14	ELEC.131
15	ELEC.136
16	ELEC.137
17	ELEC.154
18	ELEC.155

03.09 CCTV INS

No	Dwg. No
1	ELEC.77
2	ELEC.151
3	ELEC.157
4	ELEC.159
5	ELEC.160
6	ELEC.161
7	ELEC.162
8	ELEC.163
9	ELEC.164
10	ELEC.237
11	ELEC.238
12	ELEC.239
13	ELEC.240
14	ELEC.241
15	ELEC.242
16	ELEC.243

03.10 SOUND B

No	Dwg. No
1	ELEC.128
2	ELEC.132
3	ELEC.133
4	ELEC.134
5	ELEC.135
6	ELEC.138

7	ELEC.139
8	ELEC.140
9	ELEC.141
10	ELEC.142
11	ELEC.143
12	ELEC.144
13	ELEC.145
14	ELEC.148
15	ELEC.156
16	ELEC.157
17	ELEC.158
18	ELEC.160
19	ELEC.161
20	ELEC.162

03.11 TV INSTA

No	Dwg. No
1	ELEC.146
2	ELEC.147
3	ELEC.149
4	ELEC.209
5	ELEC.228
6	ELEC.229
7	ELEC.230
8	ELEC.231

03.12.PARATON

No	Dwg. No
1	ELEC.169
2	ELEC.170
3	ELEC.171
4	ELEC.172
5	ELEC.173

03.13 GENERAT

No	Dwg. No
1	ELEC.167
2	ELEC.168

03.14 COMPEN:

No	Dwg. No
1	ELEC.12
2	ELEC.50
3	ELEC.51
4	ELEC.52

5	ELEC.53
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03.15 ENVIRON

No	Dwg. No
1	ELEC.14
2	ELEC.20
3	ELEC.21
4	ELEC.25
5	ELEC.33
6	ELEC.41
7	ELEC.42
8	ELEC.44
9	ELEC.47
10	ELEC.48
11	ELEC.58
12	ELEC.59
13	ELEC.60
14	ELEC.61
15	ELEC.102
16	ELEC.176
17	ELEC.232

03.16 HEATING

No	Dwg. No
1	ELEC.1
2	ELEC.15
3	ELEC.19
4	ELEC.20
5	ELEC.21
6	ELEC.22
7	ELEC.26
8	ELEC.33
9	ELEC.36
10	ELEC.41
11	ELEC.45
12	ELEC.46
13	ELEC.64
14	ELEC.65
15	ELEC.220
16	ELEC.71
17	ELEC.72
18	ELEC.81
19	ELEC.82
20	ELEC.221
21	ELEC.90
22	ELEC.94
23	ELEC.97

24	ELEC.98
25	ELEC.100
26	ELEC.101
27	ELEC.103
28	ELEC.106
29	ELEC.107
30	ELEC.109
31	ELEC.111
32	ELEC.114
33	ELEC.119
34	ELEC.120
35	ELEC.121
36	ELEC.122
37	ELEC.123
38	ELEC.124
39	ELEC.125
40	ELEC.136
41	ELEC.153
42	ELEC.154
43	ELEC.157
44	ELEC.174
45	ELEC.175
46	ELEC.176
47	ELEC.177
48	ELEC.178
49	ELEC.233

03.18 TRANSFO

No	Dwg. No
1	ELEC.179
2	ELEC.180
3	ELEC.181
4	ELEC.182
5	ELEC.183
6	ELEC.184
7	ELEC.185
8	ELEC.186
9	ELEC.187
10	ELEC.188
11	ELEC.189
12	ELEC.190
13	ELEC.191
14	ELEC.192
15	ELEC.193
16	ELEC.194
17	ELEC.195
18	ELEC.196
19	ELEC.197

20	ELEC.198
21	ELEC.199
22	ELEC.200
23	ELEC.201
24	ELEC.203
25	ELEC.204
26	ELEC.205
27	ELEC.206

ERCİŞ WORKSHOP CONSTRUCTION

İ AND SOCKET INSTALLATION

Definition
1 contact 1 na, 16a remote control pulse current switch and installation
Sorting with pulse current switch control
Halogenfree cable and safety line normal sorties
Security line commander sorti with halogenfree cable
Security line parallel sorti with Halogenfree cable
Normal sorti (linye and sorti lines with unlePCSed antigron (nhxmh) material.)
Commander sorti (linye and sorti lines with unlePCSed antigron (nhxmh) material.)
Vavien sorti (linye and sorti lines with unlePCSed antigron (nhxmh) material.)
Safety line socket sortie with Halogenfree cable.
Linye and sorti lines lePCS-free antigron (NHXMH) type of material with normal socket sorties
Recessed, min. 30x30 sized, LED ceiling light (minimum luminous flux 1000 lm, maximum consumption of 12 w)
Recessed, min. 60x60 sized, LED ceiling light (with minimum luminous flux of 3300 lm, maximum consumption of 36 w)
Recessed, circular downlight with LED (luminous flux at least 1700 lm, max. Consumption 24 W)
LED Surface Mounted Waterproof Luminaire (Polycarbonate) Luminous flux at least 1800 lm, consumption value up to 20 W.
LED Glop Luminaire The luminous flux is at least 1800 lm, the consumption is at most 20W (with at least IP 40 protection degree).
Led lighting fixtures for emergency lighting kit price difference
Led lighting fixture with sensor price difference
Led Floodlights with light flux at least 8500 lm, consumption value up to 100 w
360° ceiling mounted surface mounted motion sensor
60W 40x40 High Ceiling Led Armature
12W Sconce Led Armature
13W Self Sensor Led Armature
ETHANGE THERMOPLASTIC COMPLETE SOCKET OUTLET BOX (INCLUDING SETS AND FUSES)

TELEPHONE INSTALLATION

Definition
Utp cat6 recessed single socket
Utp cat6 patch panel with 24 ports
Telephone distribution box Up to 30 pairs
Telephone system sortie
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Free standing cabinets 20u 600 mm * 800 mm 19 "
Product's accessory wheel brake group
Product's accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse
Product's accessory 19 "1u horizontal cable organizer
Product's accessory 20u vertical cable organizer
Hybrid count. telephone switchboard analogue (d. line: 8. line: 32) digital (i. line: 15 d. line :-) pr (30b + d): _ ip (d. line: 6 i. line: 30)
25 PORT ISDN PATCH PANEL

JE LINK INSTALLATION

Definition

Cable tray systems

RTHING INSTALLATION

Definition

Ø1000 mm inner diameter, input-output diameter Ø 200/300/400 mm Manhole Base

Supply and installation of copper busbar in accordance with TSE requirements to be placed in casting box and panels and painting to the colors in TS EN 60445.

Conductor for building construction 2x50 mm² copper wire

Conductor for building construction 30 × 3.5 mm galvanized steel plate

Earth electrode (rod), electrolytic copper

Conductive protective tube

Thermocouple attachment up to 150 gr.

RCUIT BREAKER, CABLE INSTALLATION

Definition

COMBI X / 100 V X / 5 A ELECTRONIC METERS

Front covered sheet panel (TS EN 61439-1 / 2)

Surface mounted sheet metal up to 0,05 - 0,10m² (including 0,10m²) (TS 3367 EN 60439-1)

Built-in sheet table 0.05-0.10 m². (ts en 61439-1 / 2)

Built-in sheet table 0.10-0.20 m². (ts en 61439-1/2)

Built-in sheet table 0.40-0.50 m². (ts en 61439-1/2)

automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)

three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)

three-phase switch automatic fuse 25 a. (6ka) (ts 5018-1 at 60898-1)

three-phase switch automatic fuse 40 a. (6ka) (ts 5018-1 at 60898-1)

three-phase switch automatic fuse 63 a. (6ka) (ts 5018-1 at 60898-1)

Three-phase up to 25 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)

Three-phase up to 40 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)

Three-phase up to 63 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)

From 3 x 10 A to 3 x 63 A, Icu: 35 kA, I1: (0.8-1) In

up to 3 x 100 A Icu: 35 kA, I1: (0.8-1) In

up to 3 x 125 A Icu: 35 kA, I1: (0,8-1)In

Up to 3 x 630 A , Icu: 35 kA, I1: (0,8-1)In, I3: (6-10)In,

Up to 3 x 800 A , Icu: 35 kA, I1: (0,8-1)In, I3: (6-10)In,

Up to 3 x 1000 A , Icu: 35 kA, (0,5-1)In, I3: (2-10)In,

Residual current circuit breaker up to 4 * 25 a (30ma)

Residual current circuit breaker up to 4 * 40 a (30ma)

Residual current circuit breaker up to 4 * 63 a (30ma)

Residual current circuit breaker up to 4 * 80 a (30ma)

Residual current circuit breaker up to 4 * 100 a (30ma)

Residual current circuit breaker up to 4 * 40 a (300ma)

Residual current circuit breaker from 3*300 up to 3*1250

Class B, 230V AC, 100 kA (I imp; 10 / 350µs), three-phase, neutral-to-earth

C class 230/400 V AC, 40kA, (I max; 8 / 20µs), phase-to-earth or two-phase to earth or phase-to-neutral

Indicator lamp up to 250 v

4 x 1250 A Automatic Transfer Switches

Multimeters (ts 4417)
Current measuring transformer 100 - 500/5 a.
Current measuring transformer 501 - 2000/5 a.
Enerji analizor (ts 4417)
1kv underground cable column and supply line 4 * 6 mm2 nyy (TS IEC 60502-1 + A1)
1x1,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x2,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x4 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x6 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x10 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x16 mm plastic insulated conductor (HO7Z, O7Z1)
1x25 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x50 mm2 plastic insulated conductor (HO7Z, O7Z1)
3x2.5 mm2 lePCS-free pvc insulated cable feeding line (nhxmh)
1x25 mm2 1kv underground cable. Feeding line (n2xh)
1x120 mm2 1kv underground cable feeding line (n2xh)
1x185 mm2 1kv underground cable. Feeding line (n2xh)
3x25+16 mm2 1kv underground cable feeding line (n2xh)
3x50+25 mm2 1kv underground cable feeding line (n2xh)
3x120 + 70 mm2 1kv underground cable. Feeding line (n2xh)
4x4 mm2 1kv underground wiring line (n2xh)
4x6 mm2 1kv underground cable feeding line (n2xh)
4x10 mm2 1kv underground cable feeding line (n2xh)
4x16 mm2 1kv underground cable feeding line (n2xh)
4x150 mm2 underground cables with column and feed line plant (N2XH, 0,6 / 1kV)
1x150rm flame resistant n2xhfe 180 0.6 / 1kv cable
1x185rm flame resistant N2XHFE 180 0.6 / 1KV cable
3x1.5re flame resistant N2XHFE 180 0.6 / 1KV cable
3x35rm / 16re flame resistant n2xhfe 180 0.6 / 1kv cable
4x6re flame resistance n2xhfe 180 0.6/1kv cable
4x16re flame resistance n2xhfe 180 0.6/1kv cable

R INSTALLATION

Definition
2 Stops, 1,00 m / s speed, Class 1 elevator, Class 2 elevator without engine room, stepless speed, rated load: 800 kg

ALLATION

Definition
15 kva Uninterruptible power supply with three-phase input, three-phase output with battery supply up to 10 minutes
Snmp software and adapter

WIRING & SENSING INSTALLATION

Definition
3x1.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
12-zone addressable fire alarm control panel, 1 cycle, 127 address capacity, 12 fire zone indicators.

Optical smoke detector with addressable short circuit isolator
Temperature detector with addressable short circuit isolator
Combined optical smoke and temperature detector with addressable short circuit isolator
Resettable fire alarm button with addressable short circuit isolator
Relay module with addressable short circuit isolator
Contact monitoring module with addressable short circuit isolator
Addressable, short circuit isolator, loop-powered strobe siren
1 FOR POWER PLANT Addressable fire detection system graphical monitoring / management software and hardware
1 Software and hardware for integration of CCTV system of fire detection and alarm system for power plant
Parallel warning light
Addressable natural gas detector
Automatic gas and energy cut-off device that detects earthquake motion
Continuously lit emergency routing luminaire (3-hour, single-sided, with fluorescent lamp)
Continuously lit emergency routing luminaire (3 hours, double face, with fluorescent lamp)
JH (ST) Halogen Free Fire Alarm Cables 2x2x0.8 + 0.8 mm ²
JH (ST) Halogen Free Fire Alarm Cables 2x2x1.5 + 1.5 mm ²

TALLATION

Definition
3x2.5 mm ² 1kv underground cable feeding line (n2xh)
Utp cat6 patch panel with 24 ports
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Free standing cabinets 20u 600 mm * 800 mm 19 "
Product's accessory wheel brake group
Product2s accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse
Product's accessory 19 "1u horizontal cable organizer
Product's accessory 20u vertical cable organizer
SELECTION AND CONTROL KEYBOARD
21.5 " LED COLOR MONITOR
USER / MONITORING PC
INTERNAL VANDAL PROOF 2MP FIX / BOX DOME IP CAMERA (D / N) (INCLUDING FOOT, LENS, 12V DC 1A CAM ADAPTER, etc)
EXTERNAL VANDAL PROOF 2MP FIX / BOX DOME IP CAMERA (D / N) (INCLUDING FOOT, LENS, 12V DC 1A CAM ADAPTER etc)
32 Channel NVR (Min 44TB Recording Platform)
24 PORT PoE SWITCH Gbit

ROADCASTING INSTALLATION

Definition
Switching power supply unit; 1 Ah
Voice alarm system control unit, at least 8 zones
Digital voice alarm call station, at least 8 zones
Ceiling Speaker
Wall Speaker
12 channel audio control and recording mixer

1 x 31 band graphic equalizer
Digital processor crossover
12 " full range speaker
Stage box
Channel selector, (triple)
Handheld 16 channel uhf radio microphone set
Collar type 16 channel uhf radio microphone set
2 x 100 w power amplifier
2x2x0.75mm2 lih (st) h halogen free signal and control cable
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Rack cabinets 12u 600 mm * 600 mm 19 "
Product's accessory wheel brake group
Product's accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse

LLATION ESTIMATE

Definition
3000 anis-lumens, 1024x768 resolution projection
400 x 300 motorized screen
Rg 6 / u-4 a, 75 impedance coaxial cables
120cm OFFSET ANTENNA
9/8 CASCADE MULTISWITCH
Finite Tv / Rd Outlet
F CONNECTOR 10,4 mm - With tightening
QUADRO LNB 0.3 Db

UARY INSTALLATION

Definition
Active excitation tip average stimulation path l = 60 mt
Roof pillar (for active catch)
Lightning Counter
Active lightning rod tester
Roofing Conductor and Lowering Conductor 25mm2 Electrolytic Copper Conductor

OR INSTALLATION

Definition
Diesel generator set installation 1500 rpm. 1000 kva
Soundproofing cabinet 1000 kva

SATION INSTALLATION

Definition
Front covered sheet panel (TS EN 61439-1 / 2)
Up to 450 Va Centrally controlled batteries with automatic control
Up to 450 Va Automatically controlled, additional compensation batteries with harmonic filter (according to TS EN 60255-1)
Reactive Power Control Relay (SVC) (Minimum 12 steps)

400V Shunt Reactor up to 25 kVAr

MENT LIGHTING INSTALLATION

Definition
Surface mounted sheet metal up to 0,10 - 0,20m2 (including 0,20 m2) (TS 3367 EN 60439-1)
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 25 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Residual current circuit breaker up to 4 * 25 a (30ma)
up to 3x25 toggle type pako switches: (on the table) (ts 4915 en 60669-1, ts en 60947-3)
Indicator lamp up to 250 v
Dry type contactor without protection 3 * 16 a.
Timer used in lighting control
Photocell switch
Free-laying grounding line without pipe 16 mm2
1kv underground cable column and supply line 2 * 4 mm2 nyy (TS IEC 60502-1 + A1)
1kv underground cable column and supply line 3 * 4 mm2 nyy (TS IEC 60502-1 + A1)
1kv underground cable column and supply line 4 * 4 mm2 nyy (TS IEC 60502-1 + A1)
Ø 50 mm PE cable enclosure corrugated pipe
Earth electrode (rod), electrolytic copper
70W

CENTER CABLE INSTALLATION

Definition
Ø1000 mm inner diameter, input-output diameter Ø 200/300/400 mm Manhole Base
Surface mounted sheet metal up to 0,20 - 0,30m2 (including 0,30 m2) (TS 3367 EN 60439-1)
Supply and installation of copper busbar in accordance with TSE requirements to be placed in casting box and panels and painting to the colors in TS EN 60445.
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 25 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 40 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Residual current circuit breaker up to 4 * 25 a (30ma)
Residual current circuit breaker up to 4 * 25 a (300ma)
up to 3x25 toggle type pako switches: (on the table) (ts 4915 en 60669-1, ts en 60947-3)
Dry type contactor with thermal protection 3 * 16 a.
Dry type contactor with thermal protection 3 * 25 a.
1x2,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x4 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x6 mm2 Plastic insulated conductor (HO7Z, O7Z1)
3x1.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
3x2.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
4x2.5 mm2 1kv underground wiring line (n2xh)
4x4 mm2 1kv underground wiring line (n2xh)
4x6 mm2 1kv underground wiring line (n2xh)
4x4re flame resistant n2xhfe 180 0.6 / 1kv
Halogenfree cable and safety line normal sorties
Normal sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)

Commander sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Safety line socket sortie with Halogenfree cable.
Linye and sorti lines lead-free antigron (NHXMH) type of material with normal socket sorties
Surface-mounted, min 30x30 size, LED ceiling light with LED (luminous flux at least 1000 lm, maximum consumption of 12 w)
Recessed, circular downlight with LED (luminous flux at least 1700 lm, max. Consumption 24 W)
Surface mounted, downlight armature(luminous flux at least 800 lm, max. Consumption of 12 W)
LED Surface Mounted Waterproof Luminaire (Polycarbonate housing) Luminous flux at least 3600 lm, consumption value up to 40 W.
Led lighting fixtures for emergency lighting kit price difference
360° ceiling mounted surface mounted motion sensor
Optical smoke detector with addressable short circuit isolator
Temperature detector with addressable short circuit isolator
Combined optical smoke and temperature detector with addressable short circuit isolator
Resettable fire alarm button with addressable short circuit isolator
Relay module with addressable short circuit isolator
Contact monitoring module with addressable short circuit isolator
Addressable, short circuit isolator, loop-powered strobe siren
Continuously lit emergency routing luminaire (3-hour, single-sided, with fluorescent lamp)
Telephone system sortie
JH (ST) Halogen Free Fire Alarm Cables 2x2x0.8 + 0.8 mm2
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Conductor for building construction 50 mm2 copper wire
Conductor for building construction 30 × 3.5 mm galvanized steel plate
Earth electrode (rod), electrolytic copper
Conductive protective tube
Thermocouple attachment up to 150 gr.
ETHANGE THERMOPLASTIC COMPLETE SOCKET OUTLET BOX (INCLUDING SETS AND FUSES)

PRMER INSTALLATION

Definition
2 mm galvanized sheet pans or shelves
INSULATED GLOVES 36KV
INSULATED CARPET 36KV
INSULATED TABLE 36KV
EMPTY TRANSFORMER BOX 2.5 X 7.20 MT
Input-Output Switchgear with Load Disconnecter (MMMh-hd) Motor, 36kV,
Output Cell with Breaker (HV MMMh-hd) Separator air ins. 36kV, 630A, 16kA
Current and Voltage Measuring Cell (MMMh-hd) 36 KV, 630A, 16 KA
Maintenance-free battery and rectifier group 24 V 18 Ah
Combi meter (X / 100 V, X / 5 A)
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 200 A Icn = 15kA, 2xIcn, Power Cat: 0.3
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 630 A Icn = 25kA, 2.1xIcn, Power Cat: 0.25
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 1000 A Icn = 25kA, 2.1xIcn, Power Cat: 0.25
INTERNAL TYPE LV DISTRIBUTION (OUTPUT) PANEL (With Main Switch, Separator) 800 kVA
3X8 - 3X16 A Contactor
3X17 - 3X32 A Contactor
3X33 - 3X45 A Contactor
3X86 - 3X130 A Contactor
REACTIVE POWER RELAY

Galvanized Earthing Strip and Installation (0.8kg / m strip)
2mt Long. 65x65x7 Angle Earthing Electrode with Glv.li.
1000 kva, 33 / 0.4-0.231 kv (28.5 -34.5) kv copper winding power transformers
Galvanized STRANDED Steel Wire and Embedding
3x(1 × 50s / 16 mm ²), 20.3 / 35 kv yaxc7v-r (na2xsy); Copper cable (XLPE insulated, PVC outer sheath)
CONSTRUCTION OF CABLE CHANNEL (ASPHALT COATED TUVENAN) (TOTAL)
1 × 50 s / 16 mm ² , 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) Internal type shrink copper cable header
1 × 50 s / 16 mm ² , 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) internal type shrinkage copper cable header

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	4		
PCS	9		
PCS	9		
PCS	34		
PCS	3		
PCS	1		
PCS	1		
PCS	69		
PCS	15		
PCS	30		
PCS	23		
PCS	30		
PCS	5		
PCS	2		
PCS	57		
PCS	1		
PCS	4		
PCS	20		
PCS	64		
PCS	7		
PCS	1		
PCS	8		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	32		
PCS	3		
PCS	1		
PCS	20		
M	1600		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	3		
PCS	2		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	2150		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	4		
KG	5		
M	193		
M	300		
PCS	6		
PCS	50		
PCS	21		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	5		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	69		
PCS	10		
PCS	7		
PCS	2		
PCS	5		
PCS	5		
PCS	1		
PCS	1		
PCS	13		
PCS	13		
PCS	1		
PCS	1		
PCS	2		
PCS	3		
PCS	17		
PCS	2		
PCS	5		
PCS	2		
PCS	7		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	30		
PCS	1		

PCS	1		
PCS	3		
PCS	6		
PCS	1		
m	50		
m	365		
m	54		
m	298		
m	319		
m	49		
m	918		
m	15		
m	1720		
m	54		
m	30		
m	60		
m	600		
m	215		
m	15		
m	60		
m	298		
m	294		
m	49		
m	558		
m	45		
m	1600		
m	600		
m	365		
m	120		
m	25		
m	25		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
MT	175		
PCS	1		

PCS	24		
PCS	29		
PCS	5		
PCS	5		
PCS	4		
PCS	2		
PCS	12		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	6		
PCS	10		
M	500		
M	150		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	250,000		
PCS	1		
PCS	550		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	9		
PCS	8		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
PCS	1		
PCS	9		
PCS	15		
PCS	1		

PCS	1		
PCS	1		
PCS	6		
PCS	1		
PCS	1		
PAIR	2		
PAIR	2		
PCS	1		
M	720		
M	50		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	2		
m	120		
PCS	6		
PCS	2		
PCS	8		
PCS	8		
PCS	6		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
PCS	1		
PCS	1		
M	50		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
KVAR	30		
KVAR	429		
PCS	1		

PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	3		
PCS	3		
PCS	1		
PCS	1		
PCS	2		
PCS	3		
PCS	2		
PCS	1		
PCS	1		
M	325		
M	35		
M	30		
M	260		
M	325		
PCS	2		
PCS	18		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	1		
KG	1		
PCS	14		
PCS	6		
PCS	3		
PCS	1		
PCS	2		
PCS	1		
PCS	7		
PCS	4		
PCS	3		
M	84		
M	49		
M	20		
M	25		
M	12		
M	72		
M	45		
M	20		
M	4		
PCS	1		
PCS	1		

M	40		
PCS	5		
PCS	1		
M	115		
M	110		
M3	24		
PCS	3		
PCS	3		
			-

Ministry of Env

No	Dwg. No
1	ARC1
2	ARC2
3	ARC3
4	ARC4
5	ARC5
6	ARC6
7	ARC7
8	ARC8
9	ARC9
10	ARC10
11	ARC11
12	ARC12
13	ARC13
14	ARC14
15	ARC15
16	ARC16
17	ARC17
18	ARC18
19	ARC19
20	ARC20
21	ARC21
22	ARC22
23	ARC23
24	ARC24
25	ARC25
26	ARC26
27	ARC27
28	ARC28
29	ARC29
30	ARC30
31	ARC31
32	ARC32
33	ARC33
34	ARC34
35	ARC35
36	ARC36

37	ARC37
38	ARC38
39	ARC39
40	ARC40
41	ARC45
42	ARC47
43	ARC48
44	ARC49
45	ARC50
46	ARC51
47	ARC53
48	ARC54
49	ARC55
50	ARC56
51	ARC57
52	ARC58
53	ARC59
54	ARC60
55	ARC61
56	ARC62
57	ARC63

No	Dwg. No
1	ARC 64
2	ARC 65
3	ARC 66
4	ARC 67
5	ARC 68
6	ARC 69
7	ARC 70
8	ARC 71
9	ARC 72
10	ARC 73
11	ARC 74
12	ARC 75

13	ARC 76
14	ARC 77
15	ARC 78
16	ARC 79
17	ARC 80
18	ARC 81
19	ARC 82
20	ARC 83
21	ARC 84
22	ARC 85
23	ARC 86
24	ARC 87
25	ARC 88
26	ARC 89
27	ARC 90
28	ARC 91
29	ARC 92
30	ARC 93
31	ARC 94
32	ARC 95
33	ARC 96
34	ARC 97
35	ARC 98
36	
37	ARC 99
38	ARC 100
39	ARC 101
40	ARC 102
41	ARC 103

MUŞ ATELIER CONSTRUCTION CIVIL-ARCHITECTURAL WORKS of ATELIER and ADMINISTR.

Environment and Urbanization Prices

Definition
Soft rock excavation without using any kind of explosive material. (free excavation).
Sand providing, laying, manual laying, irrigation and compaction
Drainage by providing gravel
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
REPLACEMENT OF deformed concrete reinforcing steel mesh of 1,500-3,000 kg / m ² (including 3,000 kg / m ²)
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Prefabricated Reinforced Concrete Manufacturing and Substitution Using C30/37 Ready Mixed Concrete
Construction of flat surface reinforced concrete formwork with Plywood
Fully secure, scaffolding for ceilings made of pre-fabricated components. (0.00-21.50 m)
To supply and install HDPE based drainage and protection boards on the waterproofing in basement walls (150? Compressive strength <200 KN / m ²).
Providing and installation of pvc-based corrugated drainage pipe with a nominal diameter of Ø 200 mm
Blockage with hearthstone
Wall, with 10 cm thick non-bearing bimsbeton wall blocks, (with bimsbeton glue) (min. 1,50 n / mm ² and 600-900 kg / m ³ , excluding 900 kg / m ³).
Geotextile felt laying weighing 150 gr / m ²
Making 400kg of cement dose screed with a thickness of 2.5 cm
Two layers of waterproofing required by using 3 mm thick elastomer based (-20 ° C cold bending) polyester felt carrier polymer bitumen covers
Cement based single component crystallized waterproofing mortar should be reinforced with mesh and waterproofing should be done in 2 layers with a total thickness of 1.5 mm
200/250 kg lime / cement mixture should be applied with thick and thin mortar (interior plaster)
One coat of rough plaster should be applied with 350 kg cement dose mortar
To apply satin gypsum coating on bare concrete, thin plaster, gypsum plaster etc. Surfaces
To make single layer gypsum plaster on the walls with ready machine plaster (20mm thickness).
(25 x 33 cm) or (25 x 40 cm) nominal sizes, all kinds of pattern and surface properties, 1st quality, colored ceramic wall tiles and 3 mm joint spacing wall covering (with tile adhesive).
40 x 40 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive).
60 x 60 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive)
To make a parapet with 3 cm thick white marble slab (3cmx30-40-50cmx free size) (honed or polished).
To make jamb with 2 cm thick colored marble slab (2cmx30-40-50cmx free size) (honed or polished)
Production and replacement of electrostatic powder coated aluminum joinery without heat insulation
Colored-matt and anodized heat-insulated aluminum joinery manufacturing and putting into place.
Fitting the interior and exterior door lock with recessed cylinder (wide and narrow type) (wood, metal, plastic)
Fitting door handles and mirrors (chrome plated) (Wood, Metal, Plastic)
Fitting the rubber-head bumper (wood, metal, plastic)
Fitting the hinge (wood, metal, plastic)
Installation of the bolt (vertical fixing set) (wood, metal, plastic)
Placing the hinge

Placement of the espagnolette assembly (incl. Arm) up to 180 cm, with 3 clutches (wood, metal and plastic) (with written permission of the administration)
4 mm thick flat glass window unit installation with PVC and aluminum joinery
Using the profile, the first glass with 4 + 4 mm thickness and 16 mm spacing with double-glazed window with sun and heat control coating should be attached to the pvc and aluminum joinery.
Laminate coated, two sides made of wood fiber boards (MDF) pressed, kraft filled interior door leaf made and the door installation
Concealed carrier system suspended ceiling is required by using 30 * 30 cm size 0.70 mm thick min.20 micron electrostatic powder coated (polyester based) back side covered with acoustic fabric perforated aluminum plate (en aw 3000 series).
The preparation of exposed concrete surfaces for gypsoplast or plaster (interior wall).
To apply two layers of water-based silk-matte paint (interior façade) by applying primer to newly plastered surfaces
To apply two layers of water-based silk-matte paint (interior façade) by applying primer to satin plaster and plasterboard surfaces.
Placing windows and doors with square and rectangular profiles
2.00 mm thick flat black sheet metal bending door frame and put into place.
Heat-insulated sandwich clamp system roof covering of 0.65 mm trapezoidal painted galvanized sheet with 8 cm stone wool filling on top and bottom of existing wooden, steel, reinforced concrete beam or purlin roof.
Concrete Covering of Field, Retarder, Road, Car Park, Hangar and Workshop (Using Ready-Mixed Concrete)
Floor covering with Bulancak smoked granite plaque
Stairs making with bulancak smoked granite plaqueası
Partition board and door should be made with 13 mm compact laminate
Stainless Steel Stair Railing and Handrail
Fire door with a panic bar with a resistance of 120 minutes
STEEL DOOR 120/220
INDUSTRIAL DOOR 405/440
ACOUSTIC TILE CARPET COATING 50X50
SMOKE DRAIN CHIMNEY

CIVIL-ARCHITECTURAL WORKS of HEATING CENTER BUILDING

Definition
Silicone based water based exterior paint
Soft rock excavation without using any kind of explosive material. (free excavation).
Sand providing, laying, manual laying, irrigation and compaction
Drainage by providing gravel
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Construction of flat surface reinforced concrete formwork with Plywood
Providing and installation of pvc-based corrugated drainage pipe with a nominal diameter of Ø 200 mm
Blockage with hearthstone
Wall, with 10 cm thick non-bearing bimsbeton wall blocks, (with bimsbeton glue) (min. 1,50 n / mm ² and 600-900 kg / m ³ , excluding 900 kg / m ³).

Geotextile felt laying weighing 150 gr / m ²
Making 400kg of cement dose screed with a thickness of 2.5 cm
Two layers of waterproofing required by using 3 mm thick elastomer based (-20 ° C cold bending) polyester felt carrier polymer bitumen covers
Cement based single component crystallized waterproofing mortar should be reinforced with mesh and waterproofing should be done in 2 layers with a total thickness of 1.5 mm
200/250 kg lime / cement mixture should be applied with thick and thin mortar (exterior plaster)
200/250 kg lime / cement mixture should be applied with thick and thin mortar (interior plaster)
Rough and thin mortar plaster (ceiling plaster) with 250/350 kg lime / cement mixture
One coat of rough plaster should be applied with 350 kg cement dose mortar
Construction of free standing roof (with wooden plank under the roof)
Waterproofing under sloped roofs under the roof cover with a laminated polymer bitumen cover with glass film carrier on both sides covered with polyethylene film of minimum 1 mm thickness
(25 x 33 cm) or (25 x 40 cm) nominal sizes, all kinds of pattern and surface properties, 1st quality, colored ceramic wall tiles and 3 mm joint spacing wall covering (with tile adhesive).
40 x 40 cm nominal sizes, all kinds of patterns and surface properties, 1st quality, colored, glazed porcelain tile flooring with 3 mm joint spacing (with tile adhesive).
Interior floor covering with marble aggregate terrazzo tile (breaking load conditions (class 1) surface area <= 1100cm ² , honed or polished)
To make a parapet with 3 cm thick white marble slab (3cmx30-40-50cmx free size) (honed or polished).
Colored-matt and anodized heat-insulated aluminum joinery manufacturing and putting into place.
Fitting the interior and exterior door lock with recessed cylinder (wide and narrow type) (wood, metal, plastic)
Fitting door handles and mirrors (chrome plated) (Wood, Metal, Plastic)
Fitting the hinge (wood, metal, plastic)
Placing the hinge
Placement of the espagnolette assembly (incl. Arm) up to 180 cm, with 3 clutches (wood, metal and plastic) (with written permission of the administration)
Using the profile, the first glass with 4 + 4 mm thickness and 16 mm spacing with double-glazed window with sun and heat control coating should be attached to the pvc and aluminum joinery.
Laminate coated, two sides made of wood fiber boards (MDF) pressed, kraft filled interior door leaf made and the door installation
Two coats of anticorrosion and two coats of synthetic paint are required on iron surfaces.
Preparation of gross concrete surfaces for gypsum or plaster (interior wall)
Two layers of water-based silk-matte paint by applying primer on new plaster surfaces (interior wall)
Placing windows and doors with square and rectangular profiles
2.00 mm thick flat black sheet metal bending door frame and put into place.
Painted Trapezoidal Section Steel Roofing
STEEL DOOR

ACTIVE BUILDING

Unit	Amount	Unit Price (€)	Total (€)
m ³	3693,04		
m ³	10,536		
m ³	24,584		
m ³	324,192		
m ³	881,45		
TON	12,51		
TON	21,373		
TON	53,868		
m ³	209,28		
m ²	2482,03		
m ³	5540,805		
m ²	122,92		
m	195,6		
m ³	462,096		
m ²	536,589		
m ²	1620,69		
m ²	466,81		
m ²	1743,88		
m ²	63,58		
m ²	200,959		
m ²	326,088		
m ²	1048,498		
m ²	466,117		
m ²	300,054		
m ²	104,01		
m ²	238,04		
m ²	19,39		
m ²	4,16		
KG	205,578		
KG	798,34		
PCS	24		
PCS	24		
PCS	24		
PCS	108		
PCS	12		
PCS	141		

PCS	49		
m²	30,439		
m²	56,712		
m²	30,58		
m²	13,8		
m²	65,684		
m²	210,47		
m²	1048,498		
KG	1135,334		
KG	139,356		
m²	2641,668		
m³	302,786		
m²	4,03		
m	30,45		
m²	26,4		
KG	165,537		
PCS	2		
PCS	1		
PCS	2		
m²	121,69		
PCS	10		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	231,000		
m³	130,176		
m³	3,300		
m³	7,700		
m³	24,528		
m³	93,687		
TON	2,961		
TON	5,037		
m²	263,200		
m	85,000		
m³	12,264		
m²	207,350		

m²	122,640		
m²	91,860		
m²	133,640		
m²	3,960		
m²	230,780		
m²	319,116		
m²	91,860		
m²	28,900		
m²	122,640		
m²	134,904		
m²	28,900		
m²	3,960		
m²	87,900		
m²	1,024		
KG	34,726		
PCS	7,000		
PCS	7,000		
PCS	21,000		
PCS	7,000		
PCS	3,000		
m²	1,632		
m²	1,980		
m²	41,696		
m²	114,596		
m²	382,076		
KG	457,726		
KG	13,568		
m²	128,772		
PCS	1,000		
			-

No	Dwg. No
1	LSCP1
2	LSCP2
3	LSCP3
4	LSCP4
5	LSCP5
6	LSCP6
7	LSCP7
8	LSCP8
9	LSCP9
10	LSCP10
11	LSCP11
12	LSCP12
13	LSCP13
14	LSCP14
15	LSCP15
16	LSCP16
17	LSCP17

No	Dwg. No
1	LSCP18
2	LSCP19
3	LSCP20
4	LSCP21
5	LSCP22
6	LSCP23
7	LSCP24
8	LSCP25
9	LSCP26
10	LSCP27
11	LSCP28
12	LSCP29
13	LSCP30
14	LSCP31
15	LSCP33
16	LSCP34

17	LSCP35
18	LSCP36

LANDSCAPE WORKS of SITE

Definition
Soft rock excavation without using any kind of explosive material. (free excavation).
C 8/10 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
C 30/37 compressive strength class, gray, normal ready-mixed concrete pouring (including concrete transport) which Produced or purchased in concrete batching plant and printed with concrete pump
To cut, bend and replace the bars for Ø 8- Ø 12 mm deformed concrete reinforcing steel bars
To cut, bend and replace the bars for Ø 14- Ø 28 mm deformed concrete reinforcing steel bars
Construction of flat surface reinforced concrete formwork with Plywood
Blockage with hearthstone
10 cm high normal cemented steam cured concrete cobblestone floor covering (any size, color and design)
Installation of 50 x 20 x 10 cm normal cemented steam cured concrete border (bevelled, each color)
Laying of normal cemented steam cured concrete gutter in "30 x 10 x free size" cm dimensions (each color)
Two coats of anticorrosion and two coats of synthetic paint are required on iron surfaces.
Placing windows and doors with square and rectangular profiles
SUPPLY OF PLANT SOIL
PLANT SOIL SPREADING OF 10-15 CM THICKNESS
GRASS SEED PLANT
USING DOUBLE COMPONENT PAINT OF 2 MM THICKNESS: DRAWING OF PEDESTRIAN CROSSES, SLOWING WARNING AND STRIP LINES
SITE SECURITY CABIN (270X270)

INFRASTRUCTURE WORKS OF SITE

Definition
Corrugated drainage pipes with nominal diameter Ø = 100 mm (PVC based) (TS 9128)
Ø = 150 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 8)
Ø = 100 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 4)
Ø = 125 mm nominal diameter Corrugated drainage pipes High density polyethylene (HDPE) and Polypropylene (PP) based (TS EN 13476-1) (SN 4)
Ø =75 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø =110 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø =160 mm nominal diameter, PE 100 polyethylene drinking and utility water pipes (TS 418-2 EN 12201-2) 10 Atmospheric pressure resistance
Ø 100 mm one end muffled rigid PVC pipe (rain water pipe) (TS EN 1329-1, TSE CEN / TS 1329-2)
Ø 160 mm one end muffled rigid PVC pipe (rain water pipe) (TS EN 1329-1, TSE CEN / TS 1329-2)
Brass chrome-plated grate 20x20 cm, Bath strainer (according to TS 327/2)
Making trench and foundation filling with excavation material machine
Cast iron 20x20 cm. Floor drain with Ø 70 outlet
Soft and hard soil excavation with machine (Free excavation)
Sand providing, laying, manual laying, irrigation and compaction
Exterior diameter Ø 120 mm, pre-insulated steel pipe, bearer pipe mention size 2"
Exterior diameter Ø 160 mm, pre-insulated steel pipe, bearer pipe mention size 3"

Exterior diameter Ø 90 mm, glass-fiber reinforced pre-insulated pipe, bearer PPR-C pipe mention size Ø 32

Exterior diameter Ø 110 mm, glass-fiber reinforced pre-insulated pipe, bearer PPR-C pipe mention size Ø 40

Unit	Amount	Unit Price (€)	Total (€)
M3	163,971		
M3	238,600		
M3	218,369		
TON	4,151		
TON	13,540		
M2	1184,235		
M3	266,500		
M2	2665,000		
MT	159,000		
MT	170,200		
M2	327,650		
KG	9094,490		
M3	209,250		
M3	209,250		
DA	1,395		
M2	10,500		
pcs	1,000		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	208		
m	136,8		
m	144		
m	102		
m	25		
m	102		
m	25		
m	312		
m	312		
PCS	26		
m ³	591,12		
PCS	26		
m ³	656,8		
m ³	65,68		
m	38		
m	38		

m	120		
m	76		
			-

1)SANITARY IN

No	Dwg. No
1	MEC.1
2	MEC.2
3	MEC.3
4	MEC.4
5	MEC.5
6	MEC.6
7	MEC.7
8	MEC.8
9	MEC.9
10	MEC.10
11	MEC.11
12	MEC.12
13	MEC.13
14	MEC.14
15	MEC.15
16	MEC.16
17	MEC.17
18	MEC.18
19	MEC.19
20	MEC.20
21	MEC.21
22	MEC.22
23	MEC.23
24	MEC.24
25	MEC.25
26	MEC.26
27	MEC.27
28	MEC.28
29	MEC.29
30	MEC.30
31	MEC.185

2)HEATING INS

No	Dwg. No
1	MEC.33
2	MEC.34
3	MEC.35
4	MEC.36
5	MEC.37
6	MEC.38
7	MEC.39
8	MEC.40

9	MEC.41
10	MEC.42
11	MEC.43
12	MEC.44
13	MEC.45
14	MEC.46
15	MEC.47
16	MEC.48
17	MEC.49
18	MEC.50
19	MEC.51

3)COMMON IN

No	Dwg. No
1	MEC.53
2	MEC.54
3	MEC.55
4	MEC.56
5	MEC.57
6	MEC.58
7	MEC.59
8	MEC.60
9	MEC.61
10	MEC.62
11	MEC.63
12	MEC.64
13	MEC.65
14	MEC.66
15	MEC.67
16	MEC.68
17	MEC.69

18	MEC.70
19	MEC.71
20	MEC.72
21	MEC.73
22	MEC.74
23	MEC.75
24	MEC.76
25	MEC.77
26	MEC.78
27	MEC.79
28	MEC.80
29	MEC.81
30	MEC.82
31	MEC.83
32	MEC.84
33	MEC.85
34	MEC.86
35	MEC.87
36	MEC.88
37	MEC.89
38	MEC.90
39	MEC.91
40	MEC.92
41	MEC.93
42	MEC.94
43	MEC.95
44	MEC.96
45	MEC.97
46	MEC.98

47	MEC.99
48	MEC.100
49	MEC.101
50	MEC.102
51	MEC.103
52	MEC.104
53	MEC.105
54	MEC.106
55	MEC.107
56	MEC.108
57	MEC.109
58	MEC.110
59	MEC.186
60	MEC.187
61	MEC.188

4)FIRE INSTALL

No	Dwg. No
1	MEC.111
2	MEC.112
3	MEC.113
4	MEC.114
5	MEC.115
6	MEC.116
7	MEC.117
8	MEC.118
9	MEC.119
10	MEC.134
11	MEC.135
12	MEC.136
13	MEC.137
14	MEC.138

15	MEC.139
16	MEC.149

5) AUTOMATIC

No	Dwg. No
1	MEC.173
2	MEC.174
3	MEC.175
4	MEC.176
5	MEC.177
6	MEC.178
7	MEC.179
8	MEC.180
9	MEC.181
10	MEC.182
11	MEC.183
12	MEC.184

6) VENTILATION

No	Dwg. No
1	MEC.31
2	MEC.32

MUŞ ATELIER CONSTRUCTION MECHANICAL WORKS of ATELIER and ADMINISTRATIV

STALLATION

Definition
45x55 cm Half Pedestal Set washbasin
First class: (Battery TS EN 200 or TS EN 817; Siphon TS-EN 274-1-2-3)
Approx. 40x50 cm mirror
50x60 cm Extra Class plastic siphon peak, Glazed tiles, ALATURKA Lavatory stones (TS.799)
Pressure toilet washer (with flusometer)
Approx. 35x55 cm (Extra quality)
For disabled people, approximately 35x70 cm Extra quality (the height of the toilet seat should be between 43 cm and 48 cm), ALAFRANGA TOILET WITH SELF RESERVOIR AND INSTALLATION
TS EN 200 or TSEN 817 with brass siphon with coil, TS-EN 274-1-2-3 (First class), SINK INSTALLATION
Bathroom set with recessed head and hand shower, built-in bath battery set with hand shower and clapper with water filler
white acrylic shower tray (Monoblock Body) 90x90x11 cm, square, Acrylic shower tray with monoblock body
1/2 "long faucet, incl. Rosette with strainer
Foldable handlebar for the disabled
135° grab bar for the disabled
Toilet seat bar for the disabled
Paper holder for the disabled
Hard plastic 15x15 cm, Floor drain (according to TS-327/3)
50 Ø mm Flanged Cold water meters, Supply and installation of cold water meters in the workplace
45,0 m³ Prismatic Modular Stainless Steel Water Tank
Flow-m³ / h: 10-30 Pressure-mSS: 60-90, Two Pump, Vertical Shaft, Frequency Converter Booster
100 Ø mm (4 "), galvanized collector tube
25 Ø mm, collector neck: with galvanized sleeves
40 Ø mm, collector neck: with galvanized sleeves
50 Ø mm, collector neck: with galvanized sleeves
65 Ø mm flanged collector neck: with galvanized sleeves
100 Ø mm, Ventilation pipe and cap
60 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
80 liters,1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
100 liters, 1.800 Watt, Electric water heaters (TS-2212 EN 60335-2-21)
Grating job
Liquid Soap Machine(Countertops Stainless) 800 ml
Solid waste oil separator, capacity: 4 lt/sc, thickness: min.3 mm, oil volume: 160 litre

TALLATION

Definition
(240.000 kcal / h) 313 kW, Hot Water Producer, Steel Material (Welded) Central Heating Boilers (3 atmospheric construction pressure)
Panel radiator, (Type 22) 600
Heat power kcal / h: 8.000, Maximum air quantity m³ / h: 1.500, Hot air devices with radial fans (Wall hanging type)
15 Ø mm (1/2 "), Corner type radiator tap (TS 579)
20 Ø mm (3/4"), Corner type radiator tap (TS 579)
400 mm long, Radiator Connection Pipe
108/3,71 Ø mm welded pipe, collector pipe
133/4,0 Ø mm welded pipe, collector pipe

159/4,5 Ø mm welded pipe, collector pipe
Nozzle diameter 50 Ø mm, collector nozzles
Nozzle diameter 80 Ø mm, collector nozzles
Nozzle diameter 100 Ø mm, collector nozzles
10 Liter, Cylindrical Ventilation tank
Ø = 700, Insulated Stainless Steel Chimney (Exterior Coating Stainless Steel)
Supply and installation of spiral protective sleeve used in PE-Xa, PE-Xb and PE-RT pipes Ø16- Ø17
1 "collector with 6 outlets and mini ball valve
1 "collector with 7 outlets and mini ball valve
1 "collector with 9 outlets and mini ball valve
Open Expansion Tank 1000 lt with Electric Heater

STALLATION

Definition
Welded black pipe 1"
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1 1/4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe 1 1/2"
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe 2"
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (3")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1/2")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (3/4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (1 1/4")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (2")
201-400 Cost of pipe installation material which is screwed inside the building
Welded black pipe (2 1/2")
201-400 Cost of pipe installation material which is screwed inside the building
Pn 20 Polypropylene Clean Water Pipe 3/4 "25 / 4.2mm Polypropylene Clean Water Pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 3/4 "25 / 4.2 mm Polypropylene Clean Water Pipes
Pn 20 Polypropylene Clean Water Pipe 1 "32 / 5.4mm Polypropylene Clean Water Pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 1 "32 / 5.4mm Polypropylene Clean Water Pipes
Pn 20 polypropylene pipe 1 1/4 "40 / 6.7 mm Polypropylene clean water pipes
204-3300 Pn 20 Polypropylene Clean Water Pipe 1 1/4 "40 / 6.7 mm Polypropylene Clean Water Pipes
2 "63 / 8.6 (Nominal Size Diameter / Wall thickness (Ø mm) PN 20 polypropylene tubes with ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
204-3300 2 "63 / 8,6 (Nominal Size Diameter / Wall thickness (Ø mm.) PN 20 polypropylene tubes ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC
3" 90/12,3 2 "63 / 8.6 (Nominal Size Diameter / Wall thickness (Ø mm) PN 20 polypropylene tubes with ALUMINUM FOIL (WITH OXYGEN BARRIER) COMPOSITE PP-RC

204-3300 Pn 20 polypropylene pipes 2 1/2 ", 75 / 12.5 mm Polypropylene clean water pipes
Rigid PVC plastic drain pipe (plug-in plug, diameter: 50-40 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 75-70 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 100-110 mm, wall thickness 3 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 125 mm, wall thickness 3,2 mm)
204-501 Plug-in waste water plastic pipe installation material cost
Rigid PVC plastic drain pipe (plug-in plug, diameter: 160-150 mm, wall thickness 3,2 mm)
204-501 Plug-in waste water plastic pipe installation material cost
PE-Xa Oxygen Barrier Tube 50x4,6 mm
PE-Xa Oxygen Barrier Tube 63x5,8 mm
204-970 B.F.T. In case PE-Xa pipes 204-920 / 1-2 and 204-930 are used in heating installation, the amount of the assembled pipe amount as connection elements, fastening materials, flange and gasket counterparts (Size:%)
15 Ø mm (1/2 "), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
20 Ø mm (3/4"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
25 Ø mm (1"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
32 Ø mm (1 1/4"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
40 Ø mm (1 1/2"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
50 Ø mm (2"), Brass, press made teflon (PTFE), gasketed, full bore, screwed, BALL VALVES (TS 3148)
40 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
50 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
65 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
80 Ø mm, PN 10-16, Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
100 Ø mm, PN 10-16 Cast iron body, stainless steel sphere, full bore, stainless steel or Teflon plate with spring reinforced gasket, three-piece, flanged, BALL VALVES (TS 3148)
Flow rate m ³ / h: 8.1-12 Pressure SS (3,51-5,00) Pa: 31501-45000, Circulation pump, straight tube type, dry rotor up to
Flow rate m ³ / h: 12,1-25 Pressure SS (3,51-5,00) Pa: 31501-45000, Circulation pump, straight tube type, dry rotor up to 1,450 rpm
65 Ø mm with flange, strainer, PN-16, for steam and superheated water, cast iron body with diameters greater than Ø = 65 internal filter with stainless steel, screw or flange
100 Ø mm with flange, strainer, PN-16, for steam and superheated water, cast iron body with diameters greater than Ø = 65 internal filter with stainless steel, screw or flange
50 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
65 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
80 Ø mm Flanged, Check valve, PN 16, cast iron body, with pressure spring or valve, with screw or flange
Pipe Outer Diameter (3/4 ") 27 Ø mm ----- Glass Wool Wall Thickness: 25 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 ") 33 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 1/4 ") 42 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (1 1/2 ") 48 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)

Pipe Outer Diameter (2 ") 60 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
Pipe Outer Diameter (2 1/2 ") 76 Ø mm ----- Glass Wool Wall Thickness: 30 mm, Glass Wool Based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
(4 ") 114 Ø mm 40 mm, Glass wool based Aluminum Foil Coated Prefabricated Pipe Insulation (TS EN 14303)
15 Ø mm between 50 Ø mm (1/2 "-2") (2 ") 50 mm included, Pipe painting, watercolor paint
50 Ø mm between 100 Ø mm (1/2 "-2") (2 ") 100 mm included, Pipe painting, watercolor paint
100 Ø mm between 150 Ø mm (1/2 "-2") (2 ") 150 mm included, Pipe painting, watercolor paint
(1/2 ") 22 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
3/4") 28 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1") 35 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1 ¼") 42 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(1 ½") 48 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
(2") 60 Ø mm 19 mm, Aluminum Composite Film Coated Rubber Foam Based Prefabricated Pipe Insulation (TS EN 14303)
DN 70, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
DN 100, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost
DN 125, centrifugal casted peak pipe
Plug-in waste water plastic pipe installation material cost

ATION

Definition
DN 100, above ground fire hydrant (TS EN 14339, 14384, 1074-6)
Hose Diameter DN 25 Hose Length 25 m, Tubular Model Fire Cabinets, TS. EN 671-1 NORMS
Fire Department Connection Mouth
Flow rate = 36 m ³ / h h = 80 mss horizontal line (in-line) type fire pump
Flow rate 5,0 m ³ / h, Nominal discharge head 85 mSS, Electric Motor Leakage Pump Group
DN 100 Pump flow meter, Pump flow meter
Welded galvanized pipe (2")
201-400 Screwed pipe installation material cost in building
Welded galvanized pipe (2 1/2 ")
201-400 Screwed pipe installation material cost in building
Welded galvanized pipe (3")
201-400 Screwed pipe installation material cost in building
800 mm nominal diameter, 16 atmospheric pressure resistance (SN 2500) Glass Fiber Reinforced (GRP) Plastic Pipes (TS EN 1796)
1000 mm nominal diameter, 16 atmospheric pressure resistance (SN 2500) Glass Fiber Reinforced (GRP) Plastic Pipes (TS EN 1796)
1600 mm nominal diameter, 16 atmospheric pressure resistance (SN 2500) Glass Fiber Reinforced (GRP) Plastic Pipes (TS EN 1796)
DN 150, Traceable rising stem valve
DN 150, Fire Check Valve

80 Ø mm Screw or Flanged, pressure reducing valve, for water
DN 65, Traceable rising stem valve

CONTROL INSTALLATION

Definition
2-position electric immersion thermostat with contact up to 100 ° C
Outdoor air temperature sensor
Proportional controlled electronic hot water control panel
Servomotor position limitation addition
Addition of temperature gauge for electronic temperature control panel
Interlocking inside or outside of the panel, for electronic temperature control panel
Heat level addition to temperature control panel for electronic temperature control panel
Valve 50 mm and smaller, for damper smaller than 2 m ²
Contact insert mounted in the servomotor
Hand control potentiometer mounted on servomotor
Servomotor connection mechanism for 50 mm and small valves
DN 80, three way, PN 16, with flange connection, control valve body

INSTALLATION

Definition
2,000 m ³ / h, Roof-mounted radial extractors, pressure up to 225 Pascal (25 mm SS)
Construction of rectangular air ducts made of galvanized sheet in dimensions of the project in 0,60 mm, in the widest edge up to 600 mm (including 600 mm)

E BUILDING

Unit	Amount	Unit Price (€)	Total (€)
PCS	7		
Set	7		
PCS	7		
PCS	2		
Set	2		
Set	5		
PCS	1		
PCS	1		
Set	3		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	8		
PCS	1		
PCS	1		
PCS	1		
m	3		
PCS	1		
PCS	2		
PCS	1		
PCS	2		
PCS	3		
PCS	1		
PCS	1		
PCS	2		
Kg	856,57		
PCS	7		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
m	32,9		
PCS	18		
PCS	60		
PCS	36		
PCS	60		
m	2		
m	2		

m	4		
PCS	8		
PCS	8		
PCS	2		
PCS	2		
m	12		
m	710		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
m	196		
-	0,3		
m	92		
-	0,3		
m	152		
-	0,3		
m	134		
-	0,3		
m	68		
-	0,3		
m	12		
-	0,3		
m	44		
-	0,3		
m	46		
-	0,3		
m	26		
	0,3		
m	33		
	0,3		
m	22		
	0,3		
m	20		
	0,3		
m	75		
-	0,45		
m	60		
-	0,45		
m	88		
-	0,45		
m	20		
-	0,45		
m	20		

-	0,45		
m	18		
-	0,35		
m	21		
-	0,35		
m	342		
-	0,35		
m	120		
-	0,35		
m	120		
-	0,35		
m	33		
m	40		
-	0,35		
PCS	8		
PCS	8		
PCS	23		
PCS	3		
PCS	2		
PCS	1		
PCS	2		
PCS	7		
PCS	3		
PCS	7		
PCS	4		
PCS	2		
PCS	4		
PCS	1		
PCS	1		
PCS	2		
PCS	2		
PCS	1		
m	9		
m	196		
m	92		
m	152		

m	134		
m	68		
m	44		
m	440		
m	80		
m	12		
m	44		
m	46		
m	26		
m	33		
m	22		
m	20		
m	21		
-	0,35		
m	142		
-	0,35		
m	40		
-	0,35		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	7		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
m	120		
-	0,3		
m	48		
-	0,3		
m	9		
-	0,3		
m	12		
m	100		
m	10		
PCS	5		
PCS	2		

PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	12		
PCS	10		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
PCS	4		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
m²	70		
			-

03.01 LIGHTING

No	Dwg. No
1	ELEC.49
2	ELEC.93
3	ELEC.94
4	ELEC.95
5	ELEC.96
6	ELEC.97
7	ELEC.98
8	ELEC.99
9	ELEC.100
10	ELEC.101
11	ELEC.104
12	ELEC.105
13	ELEC.106
14	ELEC.108
15	ELEC.110
16	ELEC.111
17	ELEC.112
18	ELEC.113
19	ELEC.114
20	ELEC.207
21	ELEC.208
22	ELEC.209
23	ELEC.210

03.02 DATA & T

No	Dwg. No
1	ELEC.150
2	ELEC.151
3	ELEC.152
4	ELEC.153
5	ELEC.157
6	ELEC.159
7	ELEC.160
8	ELEC.161
9	ELEC.162
10	ELEC.163
11	ELEC.164
12	ELEC.165
13	ELEC.211

03.03 CABLE LIN

No	Dwg. No
1	ELEC.117

03.04 BASIC EA

No	Dwg. No
1	ELEC.1
2	ELEC.19
3	ELEC.174
4	ELEC.175
5	ELEC.176
6	ELEC.177
7	ELEC.178

03.05 PANEL, CI

No	Dwg. No
1	ELEC.9
2	ELEC.12
3	ELEC.13
4	ELEC.16
5	ELEC.17
6	ELEC.18
7	ELEC.20
8	ELEC.21
9	ELEC.22
10	ELEC.24
11	ELEC.25
12	ELEC.26
13	ELEC.27
14	ELEC.28
15	ELEC.29
16	ELEC.30
17	ELEC.31
18	ELEC.32
19	ELEC.33
20	ELEC.34
21	ELEC.35
22	ELEC.37
23	ELEC.38
24	ELEC.39
25	ELEC.40
26	ELEC.42
27	ELEC.43
28	ELEC.54
29	ELEC.55
30	ELEC.56

31	ELEC.57
32	ELEC.62
33	ELEC.63
34	ELEC.64
35	ELEC.65
36	ELEC.66
37	ELEC.67
38	ELEC.68
39	ELEC.69
40	ELEC.70
41	ELEC.72
42	ELEC.73
43	ELEC.75
44	ELEC.76
45	ELEC.78
46	ELEC.79
47	ELEC.80
48	ELEC.81
49	ELEC.82
50	ELEC.83
51	ELEC.84
52	ELEC.85
53	ELEC.230
54	ELEC.86
55	ELEC.88
56	ELEC.89
57	ELEC.91
58	ELEC.92

03.06 ELEVATOR

No	Dwg. No
1	ELEC.166

03.07 UPS INST.

No	Dwg. No
1	ELEC.115
2	ELEC.116

03.08 FIRE WAF

No	Dwg. No
1	ELEC.71
2	ELEC.118
3	ELEC.119
4	ELEC.120
5	ELEC.121

6	ELEC.122
7	ELEC.123
8	ELEC.124
9	ELEC.125
10	ELEC.126
11	ELEC.127
12	ELEC.129
13	ELEC.130
14	ELEC.131
15	ELEC.136
16	ELEC.137
17	ELEC.154
18	ELEC.155

03.09 CCTV INS

No	Dwg. No
1	ELEC.77
2	ELEC.151
3	ELEC.157
4	ELEC.159
5	ELEC.160
6	ELEC.161
7	ELEC.162
8	ELEC.163
9	ELEC.164
10	ELEC.223
11	ELEC.224
12	ELEC.225
13	ELEC.226
14	ELEC.227
15	ELEC.228
16	ELEC.229

03.10 SOUND B

No	Dwg. No
1	ELEC.128
2	ELEC.132
3	ELEC.133
4	ELEC.134
5	ELEC.135
6	ELEC.138
7	ELEC.139
8	ELEC.140
9	ELEC.141

10	ELEC.142
11	ELEC.143
12	ELEC.144
13	ELEC.145
14	ELEC.148
15	ELEC.156
16	ELEC.157
17	ELEC.158
18	ELEC.160
19	ELEC.161
20	ELEC.162

03.11.PARATON

No	Dwg. No
1	ELEC.169
2	ELEC.170
3	ELEC.171
4	ELEC.172
5	ELEC.173

03.12 GENERAT

No	Dwg. No
1	ELEC.167
2	ELEC.168

03.13 COMPEN:

No	Dwg. No
1	ELEC.12
2	ELEC.50
3	ELEC.51
4	ELEC.52
5	ELEC.53

?

03.14 ENVIRON

No	Dwg. No
1	ELEC.14
2	ELEC.20
3	ELEC.21
4	ELEC.25
5	ELEC.33
6	ELEC.41
7	ELEC.42
8	ELEC.44
9	ELEC.47
10	ELEC.48

11	ELEC.58
12	ELEC.59
13	ELEC.60
14	ELEC.61
15	ELEC.102
16	ELEC.176
17	ELEC.218

03.15 HEATING

No	Dwg. No
1	ELEC.1
2	ELEC.15
3	ELEC.19
4	ELEC.20
5	ELEC.21
6	ELEC.22
7	ELEC.26
8	ELEC.33
9	ELEC.36
10	ELEC.41
11	ELEC.45
12	ELEC.46
13	ELEC.64
14	ELEC.65
15	ELEC.71
16	ELEC.81
17	ELEC.82
18	ELEC.90
19	ELEC.94
20	ELEC.97
21	ELEC.98
22	ELEC.100
23	ELEC.101
24	ELEC.103
25	ELEC.106
26	ELEC.107
27	ELEC.109
28	ELEC.111
29	ELEC.114
30	ELEC.119
31	ELEC.120
32	ELEC.121
33	ELEC.122
34	ELEC.123
35	ELEC.124
36	ELEC.125

37	ELEC.136
38	ELEC.153
39	ELEC.154
40	ELEC.157
41	ELEC.174
42	ELEC.175
43	ELEC.176
44	ELEC.177
45	ELEC.178
46	ELEC.219

03.17 TV INSTA

No	Dwg. No
1	ELEC.146
2	ELEC.147
3	ELEC.149
4	ELEC.209
5	ELEC.212
6	ELEC.213
7	ELEC.214
8	ELEC.217

03.18 TRANSFO

No	Dwg. No
1	ELEC.179
2	ELEC.180
3	ELEC.181
4	ELEC.182
5	ELEC.183
6	ELEC.184
7	ELEC.185
8	ELEC.186
9	ELEC.187
10	ELEC.188
11	ELEC.189
12	ELEC.190
14	ELEC.192
15	ELEC.193
16	ELEC.194
17	ELEC.195
18	ELEC.196
19	ELEC.197
20	ELEC.198
21	ELEC.199
22	ELEC.200
23	ELEC.201
24	ELEC.203
25	ELEC.204

26	ELEC.205
27	ELEC.206

**MUŞ WORKSHOP CONSTRUCTION
ELECTRICAL WORKS OF MAIN BUILDING**

İ AND SOCKET INSTALLATION

Definition
1 contact 1 na, 16a remote control pulse current switch and installation
Sorting with pulse current switch control
Halogenfree cable and safety line normal sorties
Security line commander sorti with halogenfree cable
Security line parallel sorti with Halogenfree cable
Normal sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Commander sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Vavien sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Safety line socket sortie with Halogenfree cable.
Linye and sorti lines lead-free antigron (NHXMH) type of material with normal socket sorties
Recessed, min. 30x30 sized, LED ceiling light (minimum luminous flux 1000 lm, maximum consumption of 12 w)
Recessed, min. 60x60 sized, LED ceiling light (with minimum luminous flux of 3300 lm, maximum consumption of 36 w)
Recessed, circular downlight with LED (luminous flux at least 1700 lm, max. Consumption 24 W)
LED Surface Mounted Waterproof Luminaire (Polycarbonate) Luminous flux at least 1800 lm, consumption value up to 20 W.
LED Glop Luminaire The luminous flux is at least 1800 lm, the consumption is at most 20W (with at least IP 40 protection degree).
Led lighting fixtures for emergency lighting kit price difference
Led lighting fixture with sensor price difference
Led Floodlights with light flux at least 8500 lm, consumption value up to 100 w
360° ceiling mounted surface mounted motion sensor
60W 40x40 High Ceiling Led Armature
12W Sconce Led Armature
13W Self Sensor Led Armature
ETHANGE THERMOPLASTIC COMPLETE SOCKET OUTLET BOX (INCLUDING SETS AND FUSES)

TELEPHONE INSTALLATION

Definition
Utp cat6 recessed single socket
Utp cat6 patch panel with 24 ports
Telephone distribution box Up to 30 pairs
Telephone system sortie
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Free standing cabinets 20u 600 mm * 800 mm 19 "
Product's accessory wheel brake group
Product2s accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse
Product's accessory 19 "1u horizontal cable organizer
Product's accessory 20u vertical cable organizer
Hybrid count. telephone switchboard analogue (d. line: 8. line: 32) digital (i. line: 15 d. line :-) pr (30b + d): _ ip (d. line: 6 i. line: 30)
25 PORT ISDN PATCH PANEL

VE LINK INSTALLATION

Definition
Cable tray systems

RTHING INSTALLATION

Definition
Ø1000 mm inner diameter, input-output diameter Ø 200/300/400 mm Manhole Base
Supply and installation of copper busbar in accordance with TSE requirements to be placed in casting box and panels and painting to the colors in TS EN 60445.
Conductor for building construction 2x50 mm ² copper wire
Conductor for building construction 30 × 3.5 mm galvanized steel plate
Earth electrode (rod), electrolytic copper
Conductive protective tube
Thermocouple attachment up to 150 gr.

IRCUIT BREAKER, CABLE INSTALLATION

Definition
COMBI X / 100 V X / 5 A ELECTRONIC METERS
Front covered sheet panel (TS EN 61439-1 / 2)
Surface mounted sheet metal up to 0,05 - 0,10m ² (including 0,10m ²) (TS 3367 EN 60439-1)
Buit-in sheet table 0.05-0.10 m ² . (ts en 61439-1 / 2)
Buit-in sheet table 0.10-0.20 m ² . (ts en 61439-1/2)
Buit-in sheet table 0.40-0.50 m ² . (ts en 61439-1/2)
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 25 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 63 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 25 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Three-phase up to 40 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Three-phase up to 63 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
From 3 x 10 A to 3 x 63 A, Icu: 35 kA, I1: (0.8-1) In
up to 3 x 100 A Icu: 35 kA, I1: (0.8-1) In
up to 3 x 125 A Icu: 35 kA, I1: (0,8-1)In
up to 3 x 250 A Icu: 35 kA, I1: (0,8-1)In
Up to 3 x 630 A , Icu: 35 kA, I1: (0,8-1)In, I3: (6-10)In,
Residual current circuit breaker up to 4 * 25 a (30ma)
Residual current circuit breaker up to 4 * 63 a (30ma)
Residual current circuit breaker up to 4 * 100 a (30ma)
Residual current circuit breaker up to 4 * 40 a (300ma)
Residual current circuit breaker from 3*300 up to 3*1250
Class B, 230V AC, 100 kA (I imp; 10 / 350µs), three-phase, neutral-to-earth
C class 230/400 V AC, 40kA, (I max; 8 / 20µs), phase-to-earth or two-phase to earth or phase-to-neutral
Indicator lamp up to 250 v
4 x 800 A Automatic Transfer Switches
Multimeters (ts 4417)
Current measuring transformer 100 - 500/5 a.
Current measuring transformer 501 - 2000/5 a.

Energy analisor (ts 4417)
1kv underground cable column and supply line 4 * 6 mm2 nyy (TS IEC 60502-1 + A1)
1x1,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x2,5 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x4 mm2 Plastic insulated conductor (HO7Z, O7Z1)
1x6 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x10 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x16 mm plastic insulated conductor (HO7Z, O7Z1)
1x25 mm2 plastic insulated conductor (HO7Z, O7Z1)
1x50 mm2 plastic insulated conductor (HO7Z, O7Z1)
3x2.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
1x16 mm2 1kv underground cable feeding line (n2xh)
1x95 mm2 1kv underground cable feeding line (n2xh)
1x120 mm2 1kv underground cable feeding line (n2xh)
3x25+16 mm2 1kv underground cable feeding line (n2xh)
3x50+25 mm2 1kv underground cable feeding line (n2xh)
3x95+50 mm2 1kv underground cable feeding line (n2xh)
3x120+70 mm2 1kv underground cable feeding line (n2xh)
4x4 mm2 1kv underground wiring line (n2xh)
4x6 mm2 1kv underground cable feeding line (n2xh)
4x10 mm2 1kv underground cable feeding line (n2xh)
4x16 mm2 1kv underground cable feeding line (n2xh)
Column and feed line installation with 4x95 mm2 underground cables (N2XH, 0,6 / 1kV)
1x95 rm flame resistance n2xhfe 180 0.6/1kv cable
1x120rm flame resistance n2xhfe 180 0.6/1kv cable
3x1.5re flame resistance n2xhfe 180 0.6/1kv cable
4x6re flame resistance n2xhfe 180 0.6/1kv cable
4x16re flame resistance n2xhfe 180 0.6/1kv cable

R INSTALLATION

Definition
2 Stops, 1,00 m / s speed, Class 1 elevator, Class 2 elevator without engine room, stepless speed, rated load: 800 kg

ALLATION

Definition
15 kva Uninterruptible power supply with three-phase input, three-phase output with battery supply up to 10 minutes
Snmp software and adapter

NING & SENSING INSTALLATION

Definition
3x1.5 mm2 lead-free pvc insulated cable feeding line (nhxmh)
12-zone addressable fire alarm control panel, 1 cycle, 127 address capacity, 12 fire zone indicators.
Optical smoke detector with addressable short circuit isolator
Temperature detector with addressable short circuit isolator
Combined optical smoke and temperature detector with addressable short circuit isolator

Resettable fire alarm button with addressable short circuit isolator
Relay module with addressable short circuit isolator
Contact monitoring module with addressable short circuit isolator
Addressable, short circuit isolator, loop-powered strobe siren
1 FOR POWER PLANT Addressable fire detection system graphical monitoring / management software and hardware
1 Software and hardware for integration of CCTV system of fire detection and alarm system for power plant
Parallel warning light
Addressable natural gas detector
Automatic gas and energy cut-off device that detects earthquake motion
Continuously lit emergency routing luminaire (3-hour, single-sided, with fluorescent lamp)
Continuously lit emergency routing luminaire (3 hours, double face, with fluorescent lamp)
JH (ST) Halogen Free Fire Alarm Cables 2x2x0.8 + 0.8 mm2
JH (ST) Halogen Free Fire Alarm Cables 2x2x1.5 + 1.5 mm2

TALLATION

Definition
3x2.5 mm2 1kv underground cable feeding line (n2xh)
Utp cat6 patch panel with 24 ports
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Free standing cabinets 20u 600 mm * 800 mm 19 "
Product's accessory wheel brake group
Product2s accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse
Product's accessory 19 "1u horizontal cable organizer
Product's accessory 20u vertical cable organizer
SELECTION AND CONTROL KEYBOARD
21.5 " LED COLOR MONITOR
USER / MONITORING PC
INTERNAL VANDAL PROOF 2MP FIX / BOX DOME IP CAMERA (D / N) (INCLUDING FOOT, LENS, 12V DC 1A CAM ADAPTER, etc)
EXTERNAL VANDAL PROOF 2MP FIX / BOX DOME IP CAMERA (D / N) (INCLUDING FOOT, LENS, 12V DC 1A CAM ADAPTER etc)
32 Channel NVR (Min 44TB Recording Platform)
24 PORT PoE SWITCH Gbit

ROADCASTING INSTALLATION

Definition
Switching power supply unit; 1 Ah
Voice alarm system control unit, at least 8 zones
Digital voice alarm call station, at least 8 zones
Ceiling Speaker
Wall Speaker
12 channel audio control and recording mixer
1 x 31 band graphic equalizer
Digital processor crossover
12 " full range speaker

Stage box
Channel selector, (triple)
Handheld 16 channel uhf radio microphone set
Collar type 16 channel uhf radio microphone set
2 x 100 w power amplifier
2x2x0.75mm ² lih (st) h halogen free signal and control cable
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Rack cabinets 12u 600 mm * 600 mm 19 "
Product's accessory wheel brake group
Product's accessory fan module with thermostat (4 fans)
Product's accessory 19 "rack type 6-socket socket with fuse

ARY INSTALLATION

Definition
Active excitation tip average stimulation path l = 60 mt
Roof pillar (for active catch)
Lightning Counter
Active lightning rod tester
Roofing Conductor and Lowering Conductor 25mm ² Electrolytic Copper Conductor

OR INSTALLATION

Definition
Diesel generator set installation 1500 rpm. 625 kva
Soundproofing cabinet 625 kva

SATION INSTALLATION

Definition
Front covered sheet panel (TS EN 61439-1 / 2)
Up to 450 Va Centrally controlled batteries with automatic control
Up to 450 Va Automatically controlled, additional compensation batteries with harmonic filter (according to TS EN 60255-1)
Reactive Power Control Relay (SVC) (Minimum 12 steps)
400V Shunt Reactor up to 25 kVAr

MENT LIGHTING INSTALLATION

Definition
Surface mounted sheet metal up to 0,10 - 0,20m ² (including 0,20 m ²) (TS 3367 EN 60439-1)
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 25 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Residual current circuit breaker up to 4 * 25 a (30ma)
up to 3x25 toggle type pako switches: (on the table) (ts 4915 en 60669-1, ts en 60947-3)
Indicator lamp up to 250 v
Dry type contactor without protection 3 * 16 a.
Timer used in lighting control
Photocell switch

Free-laying grounding line without pipe 16 mm ²
1kv underground cable column and supply line 2 * 4 mm ² nyy (TS IEC 60502-1 + A1)
1kv underground cable column and supply line 3 * 4 mm ² nyy (TS IEC 60502-1 + A1)
1kv underground cable column and supply line 4 * 4 mm ² nyy (TS IEC 60502-1 + A1)
Ø 50 mm PE cable enclosure corrugated pipe
Earth electrode (rod), electrolytic copper
70W

CENTER CABLE INSTALLATION

Definition
Ø1000 mm inner diameter, input-output diameter Ø 200/300/400 mm Manhole Base
Surface mounted sheet metal up to 0,20 - 0,30m ² (including 0,30 m ²) (TS 3367 EN 60439-1)
Supply and installation of copper busbar in accordance with TSE requirements to be placed in casting box and panels and painting to the colors in TS EN 60445.
automatic fuse with switch 16 a. (6ka) (ts 5018-1 en 60898-1)
three-phase switch automatic fuse 16 a. (6ka) (ts 5018-1 at 60898-1)
three-phase switch automatic fuse 25 a. (6ka) (ts 5018-1 at 60898-1)
Three-phase up to 40 A (10 kA) Switched Automatic Fuses (with 10 kA breaking capacity)
Residual current circuit breaker up to 4 * 25 a (30ma)
Residual current circuit breaker up to 4 * 25 a (300ma)
up to 3x25 toggle type pako switches: (on the table) (ts 4915 en 60669-1, ts en 60947-3)
Dry type contactor with thermal protection 3 * 16 a.
Dry type contactor with thermal protection 3 * 25 a.
1x2,5 mm ² Plastic insulated conductor (HO7Z, O7Z1)
1x4 mm ² Plastic insulated conductor (HO7Z, O7Z1)
3x1.5 mm ² lead-free pvc insulated cable feeding line (nhxmh)
4x2.5 mm ² 1kv underground wiring line (n2xh)
4x4 mm ² 1kv underground wiring line (n2xh)
4x4re flame resistant n2xhfe 180 0.6 / 1kv
Halogenfree cable and safety line normal sorties
Normal sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Commander sorti (linye and sorti lines with unleaded antigron (nhxmh) material.)
Safety line socket sortie with Halogenfree cable.
Linye and sorti lines lead-free antigron (NHXMH) type of material with normal socket sorties
Surface-mounted, min 30x30 size, LED ceiling light with LED (luminous flux at least 1000 lm, maximum consumption of 12 w)
Recessed, circular downlight with LED (luminous flux at least 1700 lm, max. Consumption 24 W)
Surface mounted, downlight armature(luminous flux at least 800 lm, max. Consumption of 12 W)
LED Surface Mounted Waterproof Luminaire (Polycarbonate housing) Luminous flux at least 3600 lm, consumption value up to 40 W.
Led lighting fixtures for emergency lighting kit price difference
360° ceiling mounted surface mounted motion sensor
Optical smoke detector with addressable short circuit isolator
Temperature detector with addressable short circuit isolator
Combined optical smoke and temperature detector with addressable short circuit isolator
Resettable fire alarm button with addressable short circuit isolator
Relay module with addressable short circuit isolator
Contact monitoring module with addressable short circuit isolator
Addressable, short circuit isolator, loop-powered strobe siren

Continuously lit emergency routing luminaire (3-hour, single-sided, with fluorescent lamp)
Telephone system sortie
JH (ST) Halogen Free Fire Alarm Cables 2x2x0.8 + 0.8 mm ²
UTP CAT6H Halogen Free 4x2x23 AWG Cable
Conductor for building construction 50 mm ² copper wire
Conductor for building construction 30 × 3.5 mm galvanized steel plate
Earth electrode (rod), electrolytic copper
Conductive protective tube
Thermocouple attachment up to 150 gr.
ETHANGE THERMOPLASTIC COMPLETE SOCKET OUTLET BOX (INCLUDING SETS AND FUSES)

LLATION ESTIMATE

Definition
3000 anis-lumens, 1024x768 resolution projection
400 x 300 motorized screen
Rg 6 / u-4 a, 75 impedance coaxial cables
120cm OFFSET ANTENNA
9/8 CASCADE MULTISWITCH
Finite Tv / Rd Outlet
F CONNECTOR 10,4 mm - With tightening
QUADRO LNB 0.3 Db

RMER INSTALLATION

Definition
2 mm galvanized sheet pans or shelves
INSULATED GLOVES 36KV
INSULATED CARPET 36KV
INSULATED TABLE 36KV
EMPTY TRANSFORMER BOX 2.5 X 7.20 MT
Input-Output Switchgear with Load Disconnecter (MMMH-hd) Motor, 36kV, 630A, 16kA
Output Cell with Breaker (HV MMMH-hd) Separator air ins. 36kV, 630A, 16kA
Current and Voltage Measuring Cell (MMMH-hd) 36 KV, 630A, 16 KA
Maintenance-free battery and rectifier group 24 V 18 Ah
Combi meter (X / 100 V, X / 5 A)
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 200 A Icn = 15kA, 2xIcn, Power Cat: 0.3
AUTOMATIC SWITCHES (THERMAL-MAGNETIC) 3 X 630 A Icn = 25kA, 2.1xIcn, Power Cat: 0.25
INTERNAL TYPE LV DISTRIBUTION (OUTPUT) PANEL (With Main Switch, Separator) 400 kVA
3X8 - 3X16 A Contactor
3X17 - 3X32 A Contactor
3X33 - 3X45 A Contactor
3X86 - 3X130 A Contactor
REACTIVE POWER RELAY
Galvanized Earthing Strip and Installation (0.8kg / m strip)
2mt Long. 65x65x7 Angle Earthing Electrode with Glv.li.
630 kva, 33 / 0.4-0.231 kv (28.5 -34.5) kv copper winding power transformers
Galvanized STRANDED Steel Wire and Embedding
3x(1 × 50s / 16 mm ²), 20.3 / 35 kv yaxc7v-r (na2xsy); Copper cable (XLPE insulated, PVC outer sheath)
CONSTRUCTION OF CABLE CHANNEL (ASPHALT COATED TUVENAN) (TOTAL)

1 × 50 s / 16 mm², 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) Internal type shrink copper cable header

1 × 50 s / 16 mm², 20.3 / 35 kv yaxc7v-r (a2xsy); YACC8VZ3V-R (A2XSEYFGY) internal type shrinkage copper cable header

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	4		
PCS	9		
PCS	9		
PCS	34		
PCS	3		
PCS	1		
PCS	1		
PCS	69		
PCS	15		
PCS	30		
PCS	23		
PCS	30		
PCS	5		
PCS	2		
PCS	57		
PCS	1		
PCS	4		
PCS	20		
PCS	64		
PCS	7		
PCS	1		
PCS	8		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	32		
PCS	3		
PCS	1		
PCS	20		
M	1600		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	3		
PCS	2		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	2150		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	4		
KG	5		
M	193		
M	300		
PCS	6		
PCS	50		
PCS	21		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	2		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	69		
PCS	10		
PCS	4		
PCS	3		
PCS	5		
PCS	1		
PCS	1		
PCS	13		
PCS	8		
PCS	1		
PCS	1		
PCS	6		
PCS	14		
PCS	3		
PCS	4		
PCS	1		
PCS	3		
PCS	1		
PCS	1		
PCS	30		
PCS	1		
PCS	1		
PCS	3		
PCS	6		

PCS	1		
M	50		
M	365		
M	54		
M	104		
M	258		
M	85		
M	426		
M	15		
M	1240		
M	54		
M	30		
M	30		
M	10		
M	131		
M	15		
M	26		
M	30		
M	104		
M	113		
M	85		
M	270		
M	30		
M	1200		
M	400		
M	365		
M	145		
M	25		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
MT	175		
PCS	1		
PCS	24		
PCS	29		
PCS	5		

PCS	5		
PCS	4		
PCS	2		
PCS	12		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	6		
PCS	10		
M	500		
M	150		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	250,000		
PCS	1		
PCS	550		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	2		
PCS	1		
PCS	1		
PCS	1		
PCS	9		
PCS	8		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
PCS	1		
PCS	9		
PCS	15		
PCS	1		
PCS	1		
PCS	1		
PCS	6		

PCS	1		
PCS	1		
PAIR	2		
PAIR	2		
PCS	1		
M	720		
M	50		
PCS	2		
PCS	2		
PCS	2		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
PCS	1		
PCS	1		
M	50		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
KVAR	30		
KVAR	235		
PCS	1		
PCS	1		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	3		
PCS	3		
PCS	1		
PCS	1		
PCS	2		
PCS	3		
PCS	2		
PCS	1		
PCS	1		

M	285		
M	40		
M	40		
M	205		
M	285		
PCS	2		
PCS	15		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	2		
PCS	1		
KG	1		
PCS	14		
PCS	6		
PCS	3		
PCS	1		
PCS	2		
PCS	1		
PCS	7		
PCS	4		
PCS	3		
M	42		
M	49		
M	25		
M	42		
M	45		
M	4		
PCS	1		
PCS	1		
PCS	3		
PCS	4		
PCS	1		
PCS	1		
PCS	1		
PCS	4		
PCS	11		
PCS	4		
PCS	1		
PCS	1		
PCS	3		
PCS	1		
PCS	3		
PCS	6		
PCS	10		
PCS	1		

PCS	4		
PCS	1		
M	40		
M	100		
M	60		
M	57		
PCS	4		
PCS	6		
PCS	7		
PCS	2		
			-

Unit	Amount	Unit Price (€)	Total (€)
PCS	1		
PCS	2		
m	120		
PCS	6		
PCS	2		
PCS	8		
PCS	8		
PCS	6		
			-

Unit	Amount	Unit Price (€)	Total (€)
KG	20		
PAIR	1		
M2	2		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	5		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
PCS	1		
M	40		
PCS	5		
PCS	1		
M	115		
M	120		
M3	8		

PCS	3		
PCS	3		
			-