

## **MATERIAL LIST & TECHNICAL SPECIFICATION**

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|---|--|--------|
| 1) Outdoor Hydrant                        |  | 8 Ea.  |
| Species                                   | : Aboveground hydrant, with automatic discharge against frost  |        |
| Inlet Diameter                            | : DN100 (4")   |        |
| Outlet Diameter                           | : 2xDN 65 (2 x 2-1/2")   |        |
| Inlet Connection                          | : Flanged  |        |
| Outlet Connection                         | : Storz 1  |        |
| Activation                                | : Manual   |        |
| Accessories                               | : With 1 switch and hydrant elbowtir   |        |
| Approval                                  | : EN Approved  |        |
| Spare                                     | : None   |        |
| Producer                                  | : Klinger-Yakacık, Fetaş or Valftek etc.   |        |
| 2) Aboveground Hydrant Cabinet            |  | 8 Ea.  |
| Type                                      | : Above ground   |        |
| Protection                                | : Weather resistant and protected  |        |
| Installation                              | : Hidrant yakınına   |        |
| Material                                  | : Phosphated galvanized sheet (epoxy coated)   |        |
| Colour                                    | : RAL3000 Red  |        |
| Accessories                               | : 1 Hydrant opening switch, 2 pieces DN65 (2-1/2") PVC coated 30 m fabric hose and with wheels and 2 adjustable nozzles and nozzle fixing clamps |        |
| Approval                                  | : EN Approved  |        |
| Spare                                     | : None   |        |
| Manufacturer                              | : Fetaş or Normeks etc.  |        |
| 3) Burried NRS, DN200                     |  | 4 Ea.  |
| Type                                      | : Burried NRS  |        |
| Diameter                                  | : DN 200   |        |
| Mounting Type                             | : Concrete reinforced,   |        |
| Connection                                | : ANSI/DIN Flanged   |        |
| Purpose of Use                            | : Water control, Shut-off Valve  |        |
| Approval                                  | : FM approved  |        |
| Manufacturer                              | : Kennedy or Volon or Weflo  |        |
| 4) Indicator Post                         |  | 4 Ea.  |
| Type                                      | : Indicator Post   |        |
| Size                                      | : Top ipe diameter connected   |        |
| Embedding Depth                           | : 100-150 cm   |        |
| Complimentary Equipment                   | : Handle (1 Ea.)   |        |
| Approval                                  | : FM approved  |        |
| Manufacturer                              | : Kennedy or Volon or Weflo  |        |
| 5) PE Underground Fire Water Pipe, DN 200 |  | 850 m. |
| Material                                  | : PE-100 (HDPE), SDR11   |        |
| Size                                      | : DN 200   |        |
| Pressure Class                            | : PN 16  |        |
| Connection Type                           | : Electrofusion or Butt Welded   |        |
| Fittings                                  | : Including any auxiliary equipment,   |        |
| Convenience                               | : TS 418-2 EN 12201-2  |        |
| Approval                                  | : EN-TSE Approved  |        |
| Manufacturer                              | : Dizayn, Egeplast, Firat, Kartal etc.   |        |
| 6) PE Underground Fire Water Pipe, DN 150 |  | 50 m.  |
| As above but;                             |  |        |
| Size                                      | : DN 150   |        |
| 7) PE Underground Fire Water Pipe, DN 125 |  | 200 m. |
| As above but;                             |  |        |
| Size                                      | : DN 125   |        |
| 8) PE Elbow, DN 200, 90°                  |  | 14 Ea. |

Material	: PE-100 (HDPE), SDR 11	
Size	: DN 200	
Pressure Class	: PN 16	
Elbow Angle	: 90°	
Convenience	: TS 418-2 EN 12201-2	
Approval	: EN Approved	
Manufacturer	: Dizayn, Egeplast, Firat or Kartal etc.	
9) PE Elbow, DN 125, 90°		5 Ea.
As above but;		
Diameter	: DN 125	
10) PE Inegal T, DN 200 x DN 200 x DN 150		1 Ea.
Material	: PE-100 (HDPE), SDR 11	
Pressure Class	: PN 16	
Size (Inlet)	: DN 200	
Size (Outlet)	: DN 200	
Size (Branch)	: DN 150	
Ek Type	: Enjeksiyon veya Konfeksiyon	
Convenience	: TS 418-2 EN 12201-2	
Approval	: TSE Approved	
Manufacturer	: Dizayn veya Egeplast veya Firat veya Kartal	
11) PE Inegal T, DN 200 x DN 200 x DN 125		3 Ea.
As above but;		
Size (Branch)	: DN 125	
12) Thrust Block		36 Ea.
Function	: Preventing pipe movement, fixing it	
Type	: Unreinforced or lightly reinforced concrete	
Concrete type	: BS25 (C25)	
Size	: Calculated	
Approval	: -	
Manufacturer	: On-site manufacturing	
13) Soil and Grass Area Excavation Process		870 m.
Function	: Installation of Underground Fire Water Pipes	
Excavation Depth	: 150cm (to be confirmed according to the depth of canals available on site)	
Excavation Width	: At least 30 cm larger than 30% of the pipe width.	
Excavation	: By hand or by machine	
14) Concrete / Asphalt and Cobblestone Ground Excavation Process		230 m.
Function	: Installation of Underground Fire Water Pipes	
Excavation Depth	: 150cm (to be confirmed according to the depth of canals available on site)	
Excavation Width	: At least 30 cm larger than 30% of the pipe width.	
Kazi	: Cutting with jet stone, then excavating by hand or machine	
15) Grass and Soil Filling Process		870 m.
Function	: Sandblasting and soil filling work after piping excavation	
Bedding	: At least 15cm deep, with Sieved Bedding Sand	
Sand Filling	: Up to 30 cm above the pipe elevation	
Filling	: Filling, compaction with screened excavation soil and SC1-SC2 type soil addition	
Titling Strip	: Magnetic, monitorable information strip on piping	
16) Concrete / Asphalt and Paving Stone Floor Filling Process		230 m.
Function	: Providing proper coating after piping excavation	
Bedding	: At least 15cm deep, with Sieved Bedding Sand	
Sand Filling	: Up to 30 cm above the pipe elevation	
Filling	: Filling, compaction with screened excavation soil and SC1-SC2 type soil addition	
Titling Strip	: Magnetic, monitorable information strip on piping	
Concrete	: Mesh Reinforced, at least 15 cm deep, ground concrete	
Coating	: - 7 cm Asphalt pavement where necessary	



GEORGIA  
HEALTHCARE  
GROUP

Tbilisi / Georgia

**FIRE WATER DISTRIBUTION SYSTEM  
INSTALLATION AND TECHNICAL  
SPECIFICATION  
EVEX-SUNSTONE-KAR-MTL-008**



- With epoxy asphalt insulating material
- Coating with new paving stones compatible with existing cobblestone

17) Road Crossing Pipe Cover, Concrete Slab, DN 300  
Size : DN300  
Convenience : TS 821, EN 1916  
Approval : TSE- EN Approved

200 m.

Note: According to the Specification Requirements, all kinds of Auxiliary Materials, Labor, Transportation, Lifting Machines and Engineering Services will be considered in unit prices. These items include, but are not limited to:

All kinds of Auxiliary Materials and Engineering Services according to the Specification Requirements

- All kinds of working fasteners, auxiliary materials, Labor Services for the realization of the work
- All kinds of fasteners, installation materials
- Manufacturing and ready-made elements for fixing purposes
- Fittings, welding, sealing materials
- Corrosion protection, installation painting works
- Labeling and marking
- All kinds of installation materials required to complete the job
- Preparation of Manufacturing Drawings
- Repair Works
- Test and Commissioning works
- All kinds of engineering services according to specification requirements
- All kinds of work and equipment for the realization of the work

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