

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G1 Structural Work	Cost Control Unit 1	€ 1,192,000	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>3 Nov 2021</i>	<i>1 Dec 2021</i>	<i>12 Jan 2022</i>	<i>19 Jan 2022</i>	<i>23 Nov 2022</i>

Main Tasks

Site Preparation

Approx. 1,900 m³ poured-in-place concrete foundations, ceilings and walls

Approx. 1,650 m² masonry

Approx. 650 m² perimeter insulation underneath the floor slab

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G2 Warehouse Construction	Cost Control Unit 2	€ 918,800	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>20 Oct 2021</i>	<i>17 Nov 2021</i>	<i>29 Dec 2021</i>	<i>5 Jan 2022</i>	<i>1 Feb 2023</i>

Main Tasks

Approx. 1,250 m² façade scaffolding

Approx. 1,350 m² non-ventilated roof structure (vapour barrier, insulation, waterproofing)

Approx. 140 m safety railing at parapet wall, self-supporting

4 smoke / heat outlets

Approx. 70 t steel beams roof

Approx. 30 t steel columns

2 sectional gates

Approx. 1,700 m² insulating wall 10 cm

Approx. 1,350 m² trapezoidal sheet

2 bands of windows

2 emergency exit doors

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G3 Roof, Façade and Scaffolding	Cost Control Unit 3	€ 448,400	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>17 Aug 2022</i>	<i>14 Sep 2022</i>	<i>26 Oct 2022</i>	<i>2 Nov 2022</i>	<i>9 Aug 2023</i>

Main Tasks

Approx. 1,000 m² façade scaffolding

Approx. 475 m² non-ventilated roof structure (vapour barrier, insulation, waterproofing)

Approx. 130 m safety railing at parapet wall, self-supporting

Approx. 700 m² fibre cement curtain wall

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G4 Metal Work and Metalworker	Cost Control Unit 4	€ 497,000	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>20 Jul 2022</i>	<i>17 Aug 2022</i>	<i>28 Sep 2022</i>	<i>5 Oct 2022</i>	<i>6 Sep 2023</i>

Main Tasks

Approx. 12 sheet steel doors

Approx. 15 m stair rails

1 exterior steel escape staircase across 3 floors

Approx. 18 m² canopy with trapezoidal sheet covering

Approx. 135 m² aluminium window- or door system with external sunshade

6 steel frame door systems

Approx. 60 pleated blinds (internal glare protection)

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G5 Dry Construction and Structural Components	Cost Control Unit 5	€ 200,472	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>16 Nov 2022</i>	<i>14 Dec 2022</i>	<i>25 Jan 2023</i>	<i>1 Feb 2023</i>	<i>13 Sep 2023</i>

Main Tasks

Approx. 560 m² lightweight walls

Approx. 150 m² suspended ceilings consisting of metal panels

Approx. 730 m² grid ceiling with mineral wool slabs

Approx. 60 doors made of engineered wood with steel frames

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G6 Screed	Cost Control Unit 6	€ 27,500	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>2 Nov 2022</i>	<i>30 Nov 2022</i>	<i>11 Jan 2023</i>	<i>18 Jan 2023</i>	<i>15 Mar 2023</i>

Main Tasks

Approx. 1,100 m² screed on insulation and footstep sound insulation

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G7 Floor Coverings	Cost Control Unit 7	€ 53,500	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>14 Dec 2022</i>	<i>18 Jan 2023</i>	<i>1 Mar 2023</i>	<i>8 Mar 2023</i>	<i>26 Jul 2023</i>

Main Tasks

Approx. 900 m² rubber floor covering

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G8 Internal Plaster	Cost Control Unit 8	€ 55,000	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>28 Sep 2022</i>	<i>26 Oct 2022</i>	<i>7 Dec 2022</i>	<i>14 Dec 2022</i>	<i>8 Feb 2023</i>

Main Tasks

Approx. 2,500 m² wall plaster
Approx. 500 m² ceiling plaster

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G9 Painter	Cost Control Unit 9	€ 50,800	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>5 Apr 2023</i>	<i>3 May 2023</i>	<i>14 Jun 2023</i>	<i>21 Jun 2023</i>	<i>8 Nov 2023</i>

Main Tasks

Approx. 4,000 m² emulsion coating

Approx. 200 m² floor coating

Coating of approx.60 steel frames

Coating of approx.12 sheet-steel door elements

Coating of approx. 15 m stair rails

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G10 Tiles and Cut Stone	Cost Control Unit 10	€ 40,000	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>2 Nov 2022</i>	<i>30 Nov 2022</i>	<i>11 Jan 2023</i>	<i>18 Jan 2023</i>	<i>10 May 2023</i>

Main Tasks

Approx. 50 m² floor tiles

Approx. 90 m² wall tiles

Approx. 65 m² floor coating consisting of cut stone

Approx. 40 treads and risers consisting of cast stone

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G11 Locking System	Cost Control Unit 11	€ 4,000	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>22 Mar 2023</i>	<i>19 Apr 2023</i>	<i>31 May 2023</i>	<i>7 Jun 2023</i>	<i>2 Aug 2023</i>

Main Tasks

Mechanical locking system with approx. 85 locking cylinders

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G12 Plates	Cost Control Unit 12	€ 4,200	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>22 Mar 2023</i>	<i>19 Apr 2023</i>	<i>31 May 2023</i>	<i>7 Jun 2023</i>	<i>2 Aug 2023</i>

Main Tasks

Building- and 3 floor distributors
Approx. 75 door plates

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
G13 Cleaning	Cost Control Unit 13	€ 10,000	Construction of new Replacement Building 346, Replacing Buildings 25 and 205	<i>1 Feb 2023</i>	<i>1 Mar 2023</i>	<i>12 Apr 2023</i>	<i>19 Apr 2023</i>	<i>20 Mar 2024</i>

Main Tasks

Intermediate and thorough cleaning of approx. 2,200 m² floor space, including all building components (doors, windows, sanitary items etc.)

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building equipment 2: Ventilation and air-conditioning system	15	227,000 €	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to designation	<i>10 Aug 2022</i>	<i>7 Sept 2022</i>	<i>19 Oct 2022</i>	<i>26 Oct 2022</i>	<i>7 Jun 2023</i>

Main Tasks

Ventilation and air-conditioning system

- Supply and assemble approx. 250 m² of rectangular duct and fittings
- Supply and assemble approx. 230 m of folded spiral-seam pipe plus fittings
- Supply and assemble approx. 55 pcs of air bleeds and disk valves
- Supply and assemble approx. 150 m² of ventilating duct insulation

- Supply and assemble 1 pc ventilation system with a capacity of approx. 2700 m³/h
- To include initial operation and support during expert approval inspection and first hygiene inspection

Cooling systems

- Approx. 3 split cooling systems with a cooling capacity of approx. 6 kW to be installed in conference rooms
 - Approx. 2 split cooling systems with a cooling capacity of approx. 6 kW to be installed in server rooms
- Approx. 150 m of pre-insulated cooling pipes made of copper
- To include initial operation

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building equipment 3: Electrical installations, outdoor lighting	16	496,678 €	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to Designation	10 Aug 2022	7 Sept 2022	19 Oct 2022	October 2022	May 2023

Main Tasks

Provide electrical installations for New Replacement Building 346 on NATO Air Base Geilenkirchen-Teveren

Set up the electrical installations required from the ground floor to the second floor and in the warehouse

- 1 main distribution board with power switch for the building
- 3 main distribution boards on the three floors
- 1 floor-mounted main distribution board in the warehouse
- 1 sub-distribution board for IT, 1 sub-distribution board for safety installations
- Approx. 30 illuminated escape route signs with single batteries
- Approx. 500 m of halogen-free supply lines
- Approx. 14,000 m of cabling
- Approx. 400 light fixtures
- Approx. 8 mast-mounted lights
- Approx. 400 m of cable trays
- Approx. 50 m of underfloor electrical installations for conference rooms
- Approx. 200 m of dado trunking
- Approx. 1,200 m of conduits
- Equipotential bonding, fire seals, etc.
- Connections to existing systems and window blinds systems
- Construction site lighting

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building equipment 4: Earthing system, lightning protection	17	35,100 €	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to designation	<i>3 Nov 2021</i>	<i>1 Dec 2021</i>	<i>12 Jan 2022</i>	<i>February 2022</i>	<i>May 2023</i>

Main Tasks

Provide an earthing/lightning protection system for New Replacement Building 346 on NATO Air Base Geilenkirchen-Teveren

Set up the earthing and lightning protection system
Approx. 400 m of foundation earth electrodes made of galvanised flat steel, depending on construction progress
Approx. 500 m of ring earth electrodes made of V4A round steel, depending on construction progress
Approx. 600 m of lightning conductors made of AlmgSi
Approx. 10 arrester rods up to 3 m in height
Various ports and connections
Assembly planning, measurements, as-built documentation
Connections to existing systems

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building equipment 5: Communication and data systems technology	17	168,000 €	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to designation	12 Oct 2022	21 Nov 2022	21 Dec 2022	December 2022	May 2023

Main Tasks

Provide communication and data systems technology for New Replacement Building 346 on NATO Air Base Geilenkirchen-Teveren

3 data cabinets iaw NATO and Bundeswehr standards
 22 fibre-optic patch panels for subracks, including subracks
 Fibre-optic patch panels for the building's power supply
 20 RJ45 CAT6A copper patch panels
 1 connection panel for CAT3 telephone signals
 Approx. 170 Cu data outlets
 Approx. 60 fibre-optic data outlets
 Approx. 35,000 m of mixed cabling (optical fibre and Cu)
 Measurements, splicing, cable penetration fire barriers, connections to building management system

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building equipment 6: Fire alarm system	18	67,000 €	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to designation	12 Oct 2022	21 Nov 2022	21 Dec 2022	December 2022	May 2023

Main Tasks

Provide a fire alarm system for New Replacement Building 346 on NATO Air Base Geilenkirchen-Teveren

New fire alarm centre comprising 4 loops

Fire alarm centre (*Feuerwehrinformationszentrale – FIZ*), fire service key box (*Feuerweherschlüsseldepot – FSD*), fire alarm control panel (*Feuerwehrbedienfeld – FBF*), fire alarm initiating device (*Feuerwehrfreischaltelement – FSE*) with connection to garrison fire brigade

Approx. 20 schematic building plans (*Feuerwehrlaufkarten*)

Approx. 10 automatic O2T fire detectors

Approx. 10 automatic O2T fire detectors with built-in alarm signalling device

Approx. 11 non-automatic fire detectors

Approx. 14 acoustic/optical signalling devices

2 aspirating fire detection systems including filter box and 3-way ball valve

Approx. 250 m of inlet pipes

Approx. 1,000 m of fire alarm cables

Approx. 40 m of cable bearers

Approx. 250 m of conduits and ducts

Connections, cable penetration fire barriers, etc.

Designation	Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
	(net)		Start	End	Award	Start	End
Technical building equipment 7: Elevator	20 106,000 €	<p>Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to designation</p> <p>Main Tasks</p> <p>Erect an elevator for New Replacement Building 346 on NATO Air Base Geilenkirchen-Teveren</p> <p>1,200 kg cargo elevator with self-supporting shaft Elevator with entry/exit on opposite sides and two stops Cabin size (approx.): width: 2,200 mm, height: 2,500 mm, depth: 2,860 mm Shaft height approx. 6.96 m, lifting height approx. 3.75 m Expert approval inspection</p>	12 Oct 2022	21 Nov 2022	21 Dec 2022	December 2022	May 2023

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building equipment 8: Building automation	21	€ 155,000	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base Geilenkirchen-Teveren Trade: refer to designation Main Tasks <u>Measurement and control system</u> - Approx. 3 pcs of free-standing cabinets, 2,000 x 600 x 400 mm with a capacity of approx. 64 A main on-off switch - Lightning protection system, approx. 1 cabinet, 1,500 x 1,500 x 400 mm - Programming and services for approx. 120 data points - Wiring systems composed of approx. 4,500 m of halogen-free, non-metallic sheathed cables - Connection to the building management system at the garrison control room - Supply and deliver approx. 30 pcs of field equipment - To include initial operation and support during expert approval inspection and first hygiene inspection	<i>10 Aug 2022</i>	<i>7 Sept 2022</i>	<i>19 Oct 2022</i>	<i>26 Oct 2022</i>	<i>7 Jun 2023</i>

Designation		Planned Cost	Contents of Tender	Planned Tender		Planned Implementation		
		(net)		Start	End	Award	Start	End
Technical building	11.2	25,500 €	Construction of New Replacement Building 346, replacing buildings 25 and 205 on NATO Air Base	10 Aug 2022	7 Sept 2022	19 Oct 2022	26 Oct 2022	7 Jun 2023
equipment 9: Fire protection	12.1		Geilenkirchen-Teveren Trade: refer to designation					
	13.1							
	14.1							

Main Tasks

Fire protection

- Fire-resistant closures for pipe, cable and vent line penetrations (F30 and F90 quality)

- Approx. 250 pcs from D60 mm to 6,000 cm²

To include declaration of the contractor (German form

“*Fachunternehmererklärung*”) and fire protection documentation; support during expert approval inspection