

Introduction to Elite Construtcion Group

Energy (Oil&Gas), Industrial and Ship building industries.

Engineering services & Design

Personnel services







Introduction to ECG

- Quality control of work performed, Creating QC reports,
- Work with engineering team: communication, checking and creating procedures IPS,
- Checking the material status and ordering necessary construction materials & responsibilities,
- 3D modeling and Design
- Calculate the need for construction materials: Take on-site measurements and estimate the amount of materials needed for construction or renovation,
- Preparation of documents: Preparation and updating of documents regarding project planning and implementation,
- Building Materials Advice: Providing advice and information on a wide range of building materials,
- Project supervision: Ensuring that the project is carried out in accordance with work permits, construction plans, construction and design specifications and applicable regulations,





Introduction to ECG

- Communication with Construction Crews and Disciplines: Exchanges information with construction crews or supervisors to ensure smooth progress of the project,
- Obtaining updates on progress and any obstacles, and informing the crew of any changes to the schedule or procedures,
- Managing foremen from the assigned discipline,
- Work Progress Monitoring: Maintain documentation of work progress, including time, faults, etc.,
- Assessment of staff efficiency and productivity,
- Conduct a risk analysis: identifying and assessing the factor that may threaten the success of the project or the functioning of the organization. Implement procedures to avoid or minimize their impact,
- Problem solving: identifying problems and preventing technical, material, personnel problems, etc.,
- Monitoring compliance with health and safety procedures: Applying appropriate health and safety procedures to prevent accidents, contamination and other hazards,



Quality control of work performed, Creating QC reports:











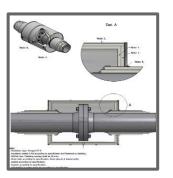


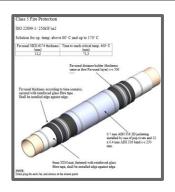


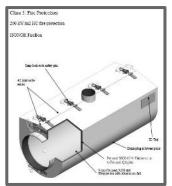


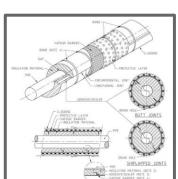


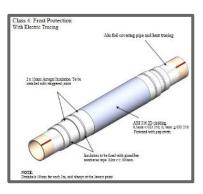
Verification and creating technical documentation and procedures IPS:

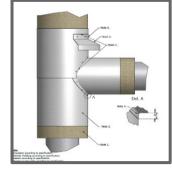


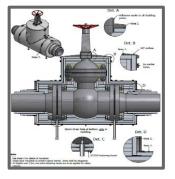


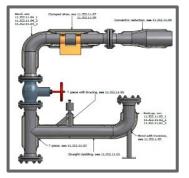


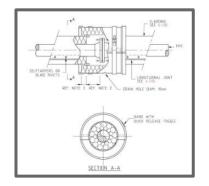








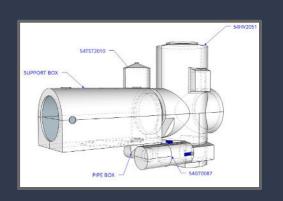


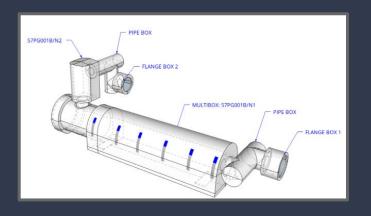


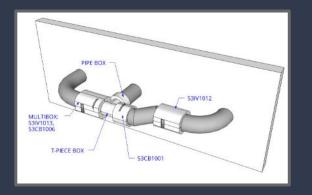


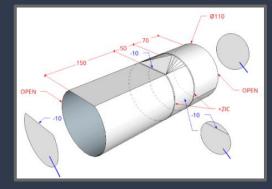
3D modeling and technical drawings:















Ø140 x 6srt R-115, 2+

Ø165 x 7srt R-152, 2+3

PIPE 2" WITH HT: 1 LAYER: 10mm XSM MAT - CUT TO LENGTH 500x257 - 20act 2 LAYER: 10mm XSM MAT - CUT TO LENGTH 500x329 - 20act

SIANIDARIO BENO 99°: 5 SZT R-76, 2·22 ~> 2 LWERS [2xd0mm XM MAT]

BEND 45°: 1 SZT R-76, 2·1 ~> 2 LWERS [2xd0mm XM MAT]

PIPE 3° WITH HI: 1 LANER: 10mm XMM MAT - CUT TO LENGTH 1000b357 - 30bst

2 LANER: 10mm XMM MAT - CUT TO LENGTH 1000b357 - 30bst

OBLIQUE CONE 3"/6" x1 -> 2 LAYERS (2x10mm X3M MAT)

1 LAYER: 10mm XIM MAT - CUT TO LENGTH 250x137 - 1 et 2 LAYER: 10mm XIM MAT - CUT TO LENGTH 200x500 - 1 et 1 LAYER: 10mm XIM MAT - CUT TO LENGTH 250x257 - 2 et 2 LAYER: 10mm XIM MAT - CUT TO LENGTH 250x257 - 2 et

BEND 45° Ø110 x 2szt R-76, 2+1

OBLIQUE COME \$110/220 x 1521

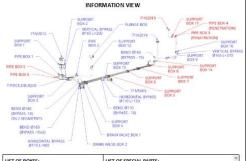
END CAP (862/110 v 1267)

END CAP Ø92/139 x 11szt END CAP Ø117/164 x 27sz1

END CAP Ø172/218 × 1625

T-PIECE and to

Calculations materials and estimation of hours by company norms:



LIST OF BOXES:	LIST OF SPECIAL PARTS:
71IV2012	BEND 90° TYP "A" Ø165, R-152, 2+3 BYPASS(-15)
71IV2014	BEND 90° TYP "C" (BYPASS -10) ON 2 SEGMENTS
71IV5005	BEND 90° TYP "C" WITH 2 BYPASS(-10)
DRAIN VALVE BOX 1	BEND 90° TYP "C" WITH BYPASS(-10) ON 2 SEGMENTS
DRAIN VALVE BOX 2	T-PIECE Ø110, CLADDING, END CAPS Ø110,
PIPE BOX 1	HORIZONTAL FLATTENING Ø110 L=150
PIPE BOX 2	HORIZONTAL FLATTENING Ø110 L=400
FLANGE BOX	T-PIECE, OBLIQUE
SUPPORT BOX 1	VERTICAL FLATTENING Ø165 L=250
SUPPORT BOX 2	VERTICAL FLATTENING Ø165 L=270
SUPPORT BOX 3	1.7019.04G0004G0127.74G100G0004G010.490046L000.74
SUPPORT BOX 4	
SUPPORT BOX 9	
SUPPORT BOX 10	
SUPPORT BOX 12	
SUPPORT BOX 13	

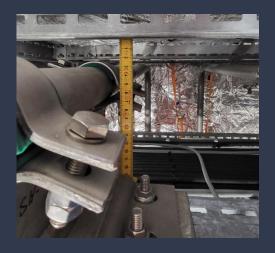
Calculation including Support Norsok Insulation on pipework and fittings including lacketing all material types	Boxes					
	Norm					
Insulation on pipework and fittings including tacketing all material types		m	m ²	szt	Difficulty	Estimated Hour
	3,50	41,00			2,00	287,00
Installation on place Boxes ø 200mm	20,00	0,20	0,15	8,00	2,00	9,60
Installation on place Boxes ø 200mm	22,00	0,20	0,24	15,00	2,20	34,8
Installation on place Diameter 200x200x500mm	12,00	0,50	0,48	3,00	2,00	17,28
2 part Boxes ø 200mm	30,00	0,20	0,24	8,00	1,00	11,5
3 part Boxes ø 200mm	30,00	0,20	0,24	15,00	1,00	21,60
Multibox ø 200x200x500mm	30,00	0,50	0,48	3,00	1,00	21,60
Boxes ø 150mm + insulation in box	120,00	0,20	0,15	23,00	1,00	82,80
Boxes ø 200mm + insulation in box	120,00	0,20	0,24	0,00	1,00	0,0
ø 200x200x500mm + insulation in box	30,00	0,50	0,48	3,00	1,00	21,6
SS 316 End caps 1*/ø100	30,00	0,20	0,05	52,00	1,00	15,6
SS 316 Cladding ø100	0,60	0,50	0,33	82,00	1,00	8,1
SS 316 Cladding ø200	0,60	0,20	0,66	0,00	1,00	0,0
SS 316 Elbow 45° ø100	3,00	0,50	0,33		1,00	0,9
SS 316 Elbow 90° ø100	4,00	0,50	0,33		1,00	12,5
	3,00	0,50	0,33			0,0
SS 316 Bands for Cladding ø100	0,03					2,0
SS 316 Cone ø100/ø200	30,00	0,20	0,05	0,00	1,00	0,0
insulation I layer ø75	2,00	0,50	0,24	82,00	1,00	19,6
insulation I layer Elbow 45° ø75	2,00	0,50	0,24	2,00	1,00	0,4
insulation I layer Elbow 90° ø75	2,00	0,50	0,24	19,00	1,00	4,5
insulation I layer T-piece ø100	2,00	0,50	0,24	0,00	1,00	0,0
insulation II layer ø95	2,00	0,50	0,30	82,00	1,00	24,6
insulation II layer Elbow 45° ø95	2,00	0,50	0,30	2,00	1,00	0,6
insulation II layer Elbow 90° ø95	2,00	0,50	0,30	19,00	1,00	5,7
insulation II layer T-piece ø100	2,00	0,50	0,30	0,00	1,00	0,0
						602.7
	2 part Boxes a 200mm 3 part Boxes a 200mm Multibox a 2000200500mm Boxes a 150mm + insulation in box Boxes a 200mm + insulation in box 2 000200500mm + insulation in box SS 316 End agas 11/e100 SS 316 Eloadem a 100 SS 316 Eloadem a 100 SS 316 Eloadem a 200 SS 316 Bands for Cladding a 100 SS 316 Bands for Clad	2 part Boxes s 200mm 30,00 3 part Boxes s 200mm 30,00 3 part Boxes s 200mm 30,00 4 part Boxes s 200mm 30,00 5 part Boxes s 200mm 30,00 5 part Boxes s 200mm 30,00 5 part Boxes s 200mm 1 part Boxes s 120,00 5 part Boxes s 200mm 1 part Boxes s 120,00 5 part Boxes s 200mm 1 part Boxes s 120,00 5 part Boxes s 200mm 1 part Boxes s 120,00 5 part Boxes s 200mm 1 part Boxes s 100,00 5 part Boxes s 100,	2 part Boxes a 200mm 30.00 0.20 3 part Boxes a 200mm 30.00 0.20 Multibox a 200.200x500mm 30.00 0.50 Multibox a 200.200x500mm 30.00 0.50 Boxes a 150mm + insulation in box 120.00 0.20 200x200x500mm + insulation in box 120.00 0.20 200x200x500mm + insulation in box 30.00 0.50 SS 316 End caps 11/s100 30.00 0.50 SS 316 End caps 11/s100 30.00 0.50 SS 316 Endeding a 100 0.66 0.50 SS 316 Endeding a 100 0.66 0.50 SS 316 Endeding a 100 3.00 0.50 SS 316 Endeding a 100 0.03 0.50 SS 316 Endeding a 100 0.05 SS 316 E	2 part Boxes e 200mm 30,00 0,20 0,24 3 part Boxes e 200mm 30,00 0,20 0,24 3 part Boxes e 200mm 30,00 0,20 0,24 4 3 part Boxes e 200mm 30,00 0,50 0,48 8 5 part Boxes e 200mm insulation in box 120,00 0,20 0,24 5 part Boxes e 200mm insulation in box 120,00 0,20 0,25 0,28 8 3 part Boxes e 200mm insulation in box 120,00 0,20 0,25 0,48 8 53 16 End caps 17e 100 30,00 0,50 0,48 8 53 16 End caps 17e 100 30,00 0,50 0,50 3,33 85 316 Elboxed 64 7 e100 30,00 0,50 0,50 3,33 85 316 Elboxed 64 7 e100 30,00 0,50 0,50 3,33 85 316 Elboxed 67 e100 30,00 0,50 0,50 3,33 85 316 Elboxed 67 e100 30,00 0,50 0,53 35 16 Elboxed 67 e100 30,00 0,50 0,50 3,33 85 316 Elboxed 67 e100 30,00 0,50 0,33 85 316 Elboxed 67 e100 30,00 0,50 0,33 85 316 Elboxed 67 e100 30,00 0,50 0,33 85 316 Elboxed 67 e100 30,00 0,50 0,50 0,50 0,50 0,50 0,50 0	2 part Boxes a 200mm 30.00 0.20 0.24 8.00 3 part Boxes a 200mm 30.00 0.20 0.24 15.00 Multibox a 200.005.005mm 30.00 0.50 0.20 0.24 15.00 Multibox a 200.005.005mm 30.00 0.50 0.20 0.48 3.00 0.50 0.48 3.00 0.50 0.20 0.48 3.00 0.50 0.20 0.48 3.00 0.50 0.20 0.24 0.00 0.20 0.25 0.24 0.00 0.20 0.25 0.25	2 part Boxes e 200mm 30,00 0,20 0,24 8,00 1,00 3 part Boxes e 200mm 30,00 0,20 0,24 15,00 1,00 1,00 1,00 1,00 1,00 1,00 1,0

	Ø125	Ø160	Ø200	Ø250	Bend Ø125	Bend Ø160	Bend Ø200	Bend Ø250	Support	Reduction Ø125/ Ø200	Reduction Ø200/ Ø3.15	Reduction Ø160/ Ø3.15	Penetratio n Ø250	Penetratio n Ø315	Penetratio n Ø500	Penetratio n Ø500	Penetration 1500x1500	Fire Damper	T-Piece Ø125/ Ø200	T-Piece Ø160/ Ø250	T-Piece Ø200/ Ø250	T-Piece Ø250/ Ø250	Recuperation Duct L07 ISO	Recuperation Duct L07 Cladding		
	0,80	1,80	1,10	0,20	4,00	5,00	4,00	4,00	38,00	1,00	1,00	3,00	2,00	3,00	4,00	4,00	1,00	2,00	1,00	1,00	1,00	1,00	9,60	10,60		
	0,90	3,20	2,00	2,00																			8,90	9,90		
	2,80	1,50	2,00	7,20																			2,60	3,60		
	0,60	0,60	2,20	4,60																			2,60	3,60		
	0,20	0,80		1,40																			4,50	5,50		
	0,20	0,30		2,50																			4,50	5,50		
	2,00	2,00																								
		0,50																								
UM	7,50	10,70	7,30	17,90	4,00	5,00	4,00	4,00	38,00	1,00	1,00	3,00	2,00	3,00	4,00	4,00	1,00	2,00	1,00	1,00	1,00	1,00	32,70	38,70		
S band	2,40	3,42	2,34	5,73	1,28	1,60	1,28	1,28		0,32	0,32	0,96	0,64	0,96	1,28	1,28	0,32	0,64	0,32	0,32	0,32	0,32				
1/norms	6,00	8,56	5,84	14,32	3,20	4,00	3,20	3,20	38,00	0,80	0,80	2,40	4,20	6,30	18,00	18,00	10,00	1,70	0,80	0,80	0,80	0,80	327,00	387,00		
otal H:	8,40	11,98	8,18	20,05	4,48	5,60	4,48	4,48	38,00	1,12	1,12	3,36	4,84	7,26	19,28	19,28	10,32	2,34	1,12	1,12	1,12	1,12	327,00	387,00	893	



Field Engineering:







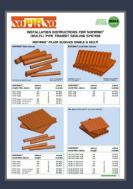




Data cheats and certificates verification for project:









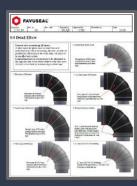














Engineering consultancy services and Personnel services

Engineers:

Insulation Engineers
Piping Engineers
Project Engineers
Commissioning Engineers
HSE, Field Engineers
HVAC Engineers

Operators:

Thermal insulation Ventilation Passive fire protection

Inspectors:

FROSIO Inspectors Quality Controllers Supervisors







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