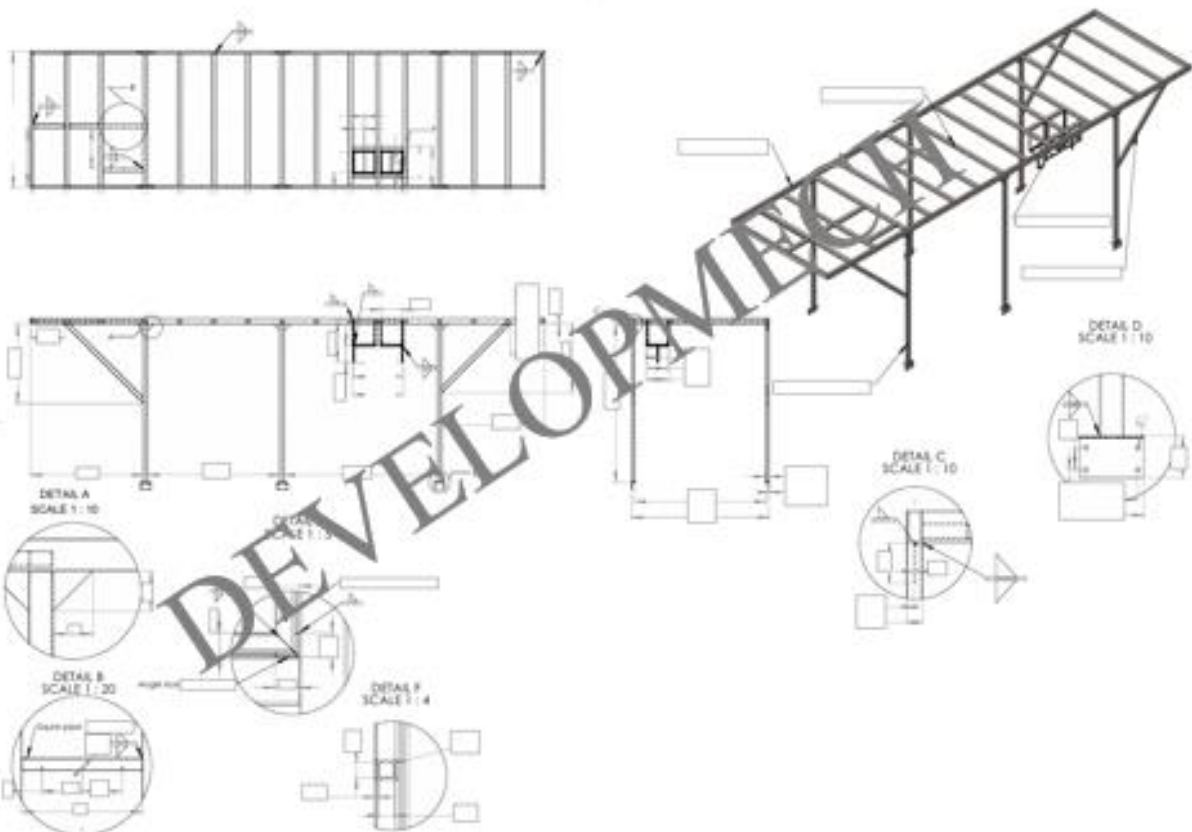
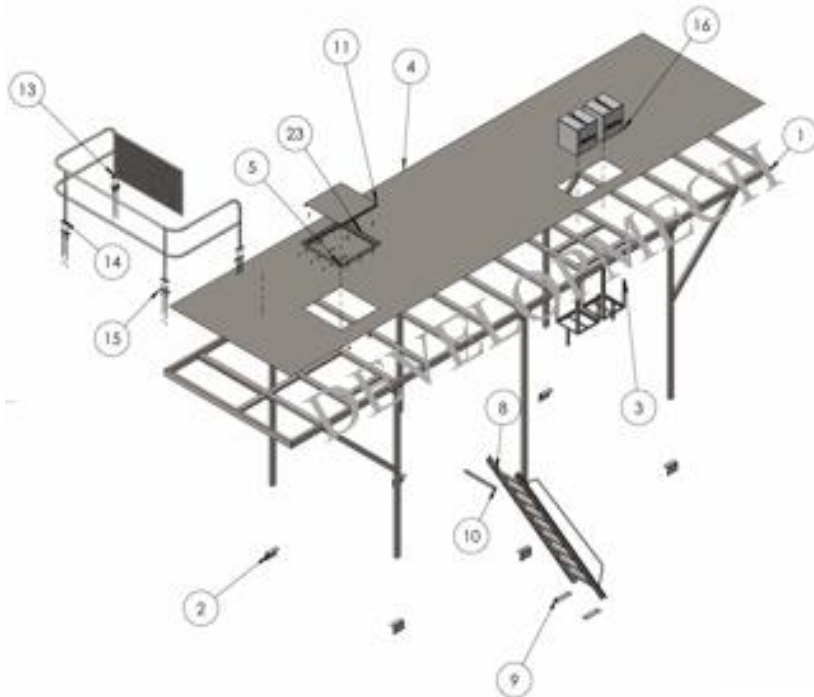


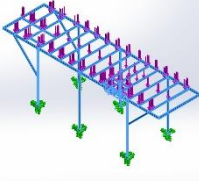
Drone Trailer Structure



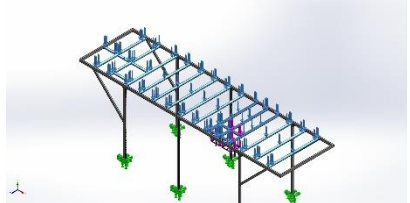
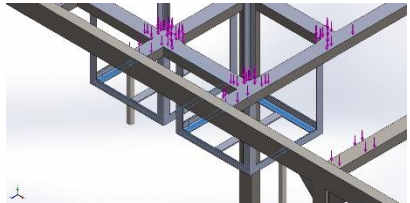


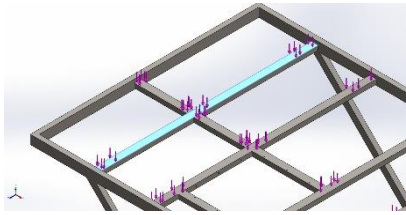
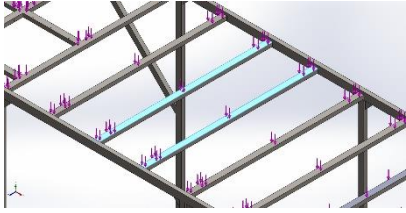
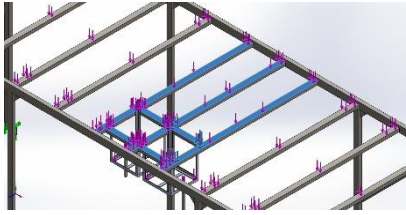
ITEM NO.	PART NUMBER	QTY.
1	drone trailer	
2	tube joint	
3	battery frame	
4	trailer top sheet	
5	roof door	
6	hanging 1	
7	B18.6.7M - M5 x 0.8 x 8 Type I Cross Recessed OHMS - 85	
8	stair	
9	stair bottom	
10	stair join top	
11	roof door sheet	
12	hanging 2	
13	grill frame	
14	grill joint	
15	grill joint bottom	
16	Battery	
17	B18.2.3.2M - Formed hex screw, M10 x 1.5 x 25 - 25CS	
18	B18.22M - Plain washer, 10 mm, regular	
19	B18.2.4.2M - Hex nut, Style 2, M10 x 1.5, with 16mm WAF - D-N	
20	B18.2.3.6M - Heavy hex bolt M12 x 1.75 x 110 - 305	
21	B18.22M - Plain washer, 12 mm, regular	
22	B18.2.4.6M - Heavy hex nut, M12 x 1.75 - W-5	
23	B18.2.3.5M - Hex bolt M10 x 1.5 x 70 - 265	

Material Properties

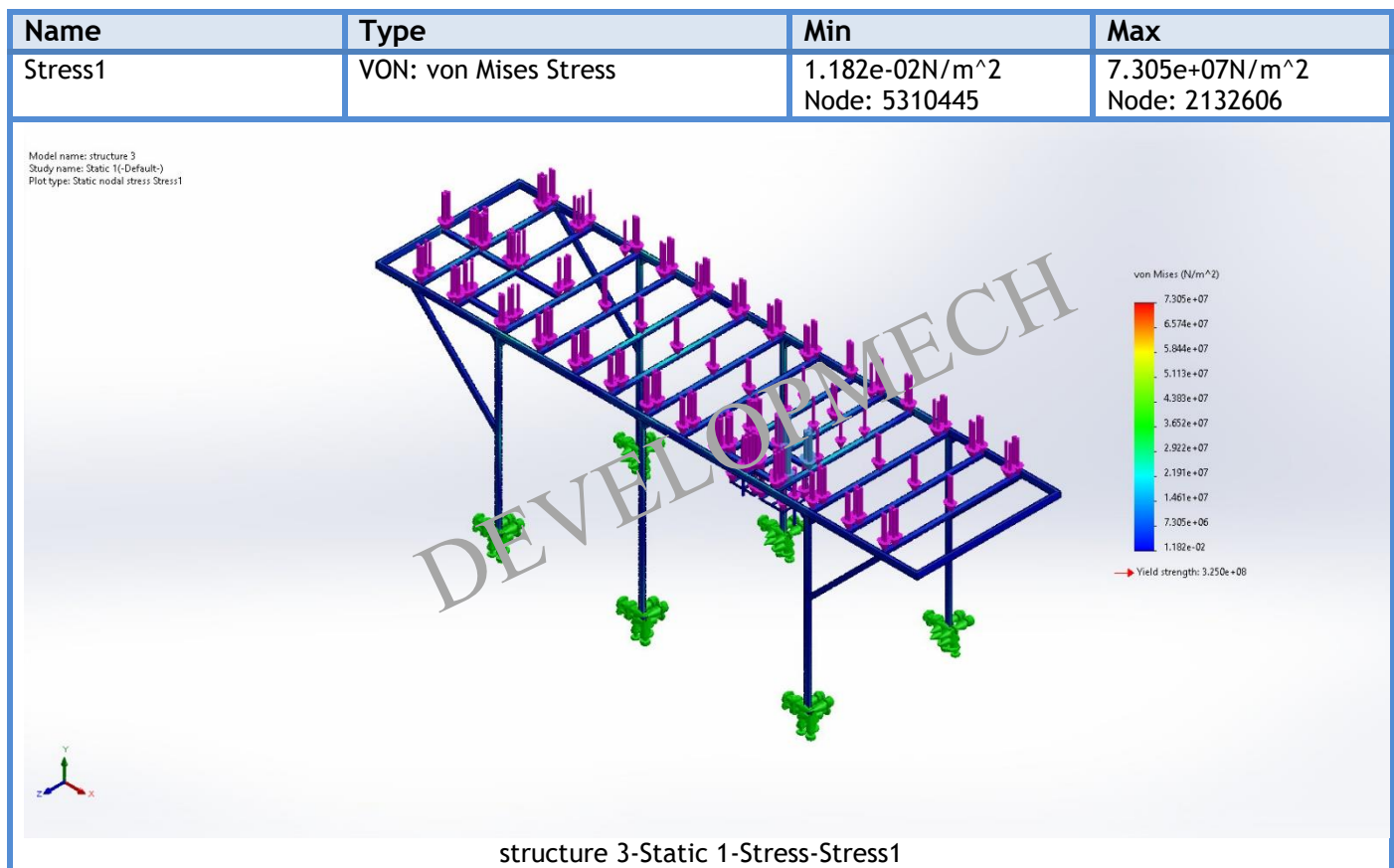
Model Reference	Properties	Components
	Name: AISI 1015 Steel, Yield strength: 3.25e+08 N/m² Tensile strength: 3.85e+08 N/m² Elastic modulus: 2.05e+11 N/m² Poisson's ratio: 0.29 Mass density: 7,870 kg/m³ Shear modulus: 8e+10 N/m² Thermal expansion: 1.2e-05 /Kelvin	SolidBody 1(Cut-Extrude1)(structure 3)

Loading Conditions

Load name	Load Image	Load Details
Force-1		Entities: 13 face(s) Type: Apply normal force Value:
Force-2		Entities: 2 face(s) Type: Apply normal force Value:

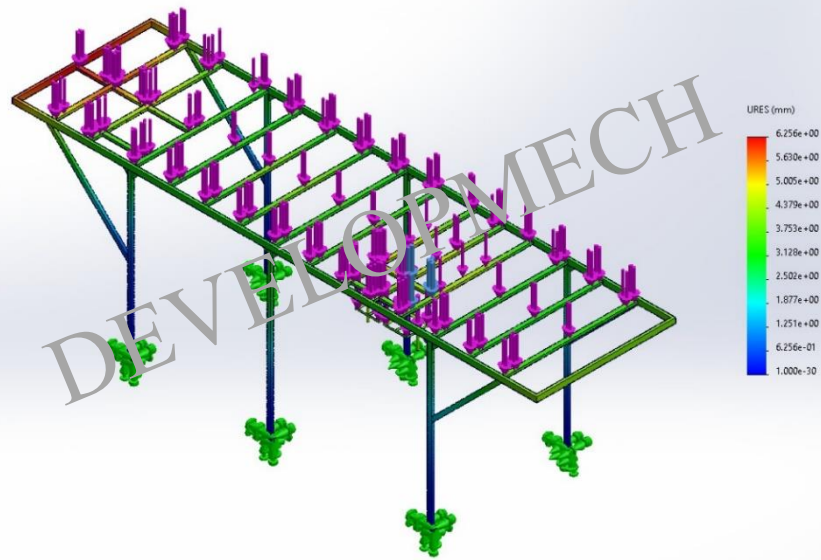
Force-3		Entities: 1 face(s) Type: Apply normal force Value:
Force-4		Entities: 2 face(s) Type: Apply normal force Value:
Force-5		Entities: 1 face(s) Type: Apply normal force Value:

Study Results



Name	Type	Min	Max
Displacement1	URES: Resultant Displacement	0.000e+00mm Node: 229	6.256e+00mm Node: 218294

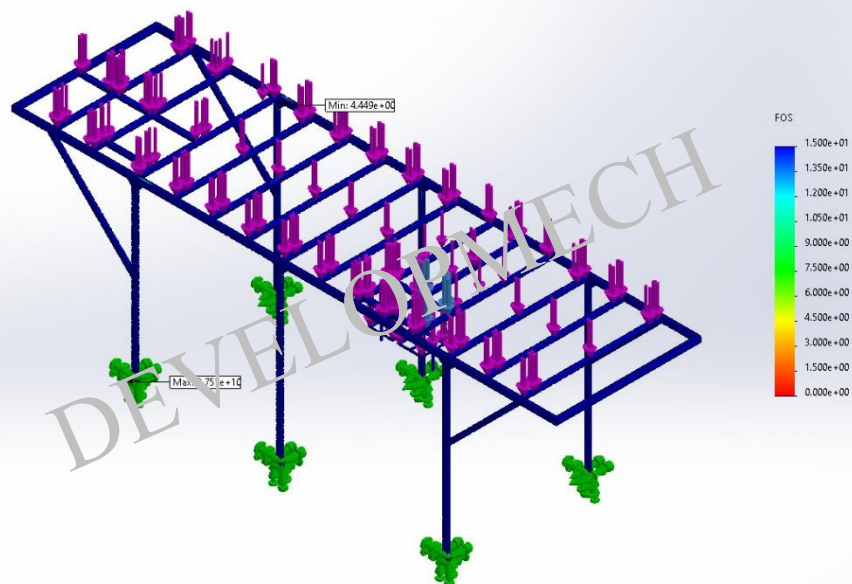
Model name: structure 3
Study name: Static 1(-Default-)
Plot type: Static displacement Displacement1



structure 3-Static 1-Displacement-Displacement1

Name	Type	Min	Max
Factor of Safety	Automatic	4.449e+00 Node: 2132606	2.751e+10 Node: 5310445

Model name: structure 3
Study name: Static 1(-Default-)
Plot type: Factor of Safety Factor of Safety1
Criterion: Automatic
Factor of safety distribution: Min FOS = 4.4



structure 3-Static 1-Factor of Safety-Factor of Safety1