YILDIZ TECHNICAL UNIVERSITY

FACULTY OF CIVIL ENGINEERING

DEPARTMENT OF CIVIL ENGINEERING

FALL 2020 – DESIGN OF STEEL STRUCTURES – PROJECT SHEET

	A	B	C	D	E	F	G	H
Student ID:								
Name-Surname:								
Advisor:								
Sections								
Columns:	HEA, HEB, HEM, square HSS, rectangular HSS, circular HSS, cruciform section							
Beams:	IPE, IPN							
Braces:	UPN, UPE, IPE, IPN, HEA, HEB, HEM, square HSS, rectangular HSS, circular HSS, equal leg angle, unequal leg angle							
Secondary Beams:	IPE, IPN							
Purlins:	IPE, IPN							
Roof Chords:	IPE, IPN							
Material								
Structural Steel:	S355							
Electrodes for Welds:	E80XX							
Bolt Class:	10.9							
Design Parameters								
L (frame span) (m):	4 + 0.02*B + 0.02*G + 0.01*H							
L_o (frame spacing) (m) :	4 + 0.06*B + 0.07*G + 0.07*H							
h (truss height) (m):	1 + 0.02*B + 0.04*G + 0.02*H							
Construction Site:	Istanbul (H=0, 1, 2, 3)			İzmir (H=4, 5, 6)			Bursa (H=7, 8, 9)	
Roof Tile:	27-200 (G=0, 1)		45-900 (G=2, 3, 4)		38-980 (G=5, 6, 7)		55-840 (G=8, 9)	
Brace Configuration:	A (H=0, 4, 7)		B (H=1, 2, 5, 8)		C (H=3 ,6, 9)			

Please see **.dwg file** for section view and floor plan details of the planned structure; and see **tile catalogue pdf files** for roof tile properties.

You can download the files from following web-pages:

avesis.yildiz.edu.tr/falemdar

avesis.yildiz.edu.tr/moyilmaz avesis.yildiz.edu.tr/yilmazo