DARMANI HOPPER BIN SKID AND LEG COMPARISONS

BIN SPECIFICATONS			DARMANI HEAVY DUTY SKID FOUNDATIONS				
DIA.	TOTAL BUSHELS (bin w/cone)	TOTAL WEIGHT LBS=60 lbs/bu	SIZE AND SPECS		FLOTATION (LBS/SQ`)	FLOTATION (TOTAL SQ`)	
			# ROWS	HSS TUBING	Skid weight	Lower the # is better	Higher the # is better
1805	4850	291000	2 ROW	4"X6"X.150	1746 LBS	5596	52
1807	6415	384900	3 ROW	4"X6"X.188	2400 LBS	5660	68
2107	8910	534600	4 ROW	4"X6"X.188	3640 LBS	4904	109
2407	11828	709680	4 ROW	4"X6"X.188	4200 LBS	5632	126
2708	17056	1023360	5 ROW	4"X6"X.188	5823 LBS	5592	183

FOUNDATIONS ARE ALL ABOUT FLOTATION AND DESIGN

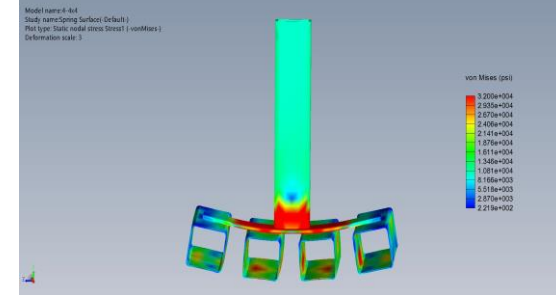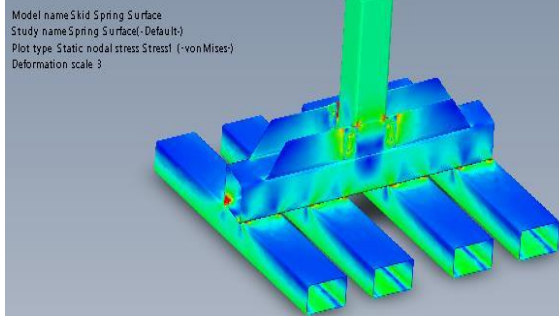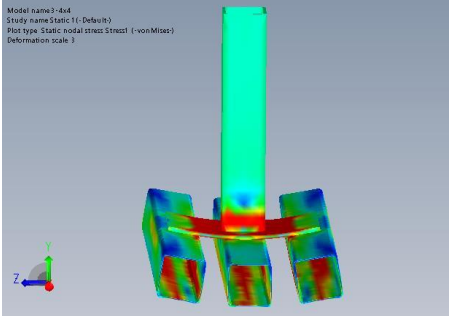See below the difference with a SKID ANALYSIS

SKID MODEL STUDY ANALYSIS for the basis of STREGNTH and FLOTATION

Engineering models used 40,000 lbs pressure exerted pressure on each LEGS

Competitior **3 ROW 4x4** /plate   **DARMANI 4 ROW 4x6 with TUBING w/brace**   Competitior **4 ROW 4x4** with plate

BIN SPECIFICATONS		
DIA.	TOTAL BUSHELS (bin w/cone)	TOTAL WEIGHT (LBS) =60 lbs/bushel
1807	6415	384900
2107	8910	534600
2407	11828	709680
2708	17056	1023360

DARMANI CONES ARE DESIGNED "STRONGEST IN THE INDUSTRY"

DARMANI LEG STREGNTH AND SIZES USED

SIZE AND SPECS # AND SIZE			(LBS/LEG) Pressure on bin legs
#	SIZE	WALL	LBS / LEG
12	5"X5"	.188	32075
14	5"X5"	.188	38185
16	5"X5"	.188	44355
18	5"X5"	.250	56853

LEG STEGNTHS	
STRUCTURAL ANALYSIS OF HSS TUBING	
SIZE	STREGNTH
4X4X.125	35,000 lbs
4X4X.188	50,000 lbs
5X5X.188	74,000 lbs
5X5X.250	96,000lbs
*Taken from Independence tube ENGINEERING DATA MAUAL	