

SECTION 7 - RF SUMMARY

Matrix Formatting Code

Item₀ := "Item"

Name₀ := "Name"

Part₀ := "P/N"

Mat₀ := "Material"

Load_Case₀ := "Load Case"

Allowable₀ := "Allowable"

Applied₀ := "Applied"

RF := "RF"

Section₀ := "§"

RF SUMMARY

T := [Item Name Part Mat Load_Case Allowable Applied RF Section]

Item	Name	P/N	Material	Load Case	Allowable	Applied	RF	§
"1"	"Rack Insert"	"IA-MS-0038"	"6061-T6"	"T"	316.00 <i>lbf</i>	199.25 <i>lbf</i>	1.20	"6.1"
"2"	"Rack Insert"	"IA-MS-0038"	"6061-T6"	"S"	329.00 <i>lbf</i>	207.00 <i>lbf</i>	"CRF"	"6.1"
"3"	"Rack Bolt"	"MS35191-279"	"MIL-S-7742"	"T"	994.00 <i>lbf</i>	199.25 <i>lbf</i>	3.85	"6.2"
"4"	"Rack Bolt"	"MS35191-279"	"MIL-S-7742"	"S"	1075.00 <i>lbf</i>	207.00 <i>lbf</i>	"CRF"	"6.2"
"5"	"Isolator"	"IA-MS-0042-0938120"	"Various"	"T"	702.53 <i>lbf</i>	315.79 <i>lbf</i>	1.07	"6.3"
"6"	"Isolator"	"IA-MS-0042-0938120"	"Various"	"S"	241.67 <i>lbf</i>	207.00 <i>lbf</i>	"CRF"	6.30
"7"	"Screw"	"MS35191-273"	"MIL-S-7742"	"T"	994.00 <i>lbf</i>	231.35 <i>lbf</i>	3.55	"6.4"
"8"	"Screw"	"MS35191-273"	"MIL-S-7742"	"S"	1075.00 <i>lbf</i>	207.00 <i>lbf</i>	"CRF"	"5.4"
"9"	"Rail"	"SF04-70-2001"	"4130"	"B"	95000.00 <i>psi</i>	54716.02 <i>psi</i>	1.74	"6.5"
"10"	"Ancra Fitting"	"40351-10"	"MIL-S-7742"	"T"	4000.00 <i>lbf</i>	179.14 <i>lbf</i>	12.72	"6.6"
"11"	"Ancra Fitting"	"40351-10"	"MIL-S-7742"	"S"	3000.00 <i>lbf</i>	207.00 <i>lbf</i>	"CRF"	"6.6"
"12"	"Screw"	"#10, MS24694"	"MIL-S-7742"	"T"	2210.00 <i>lbf</i>	179.14 <i>lbf</i>	3.47	"6.7"
"13"	"Screw"	"#10, MS24694"	"MIL-S-7742"	"S"	737.20 <i>lbf</i>	207.00 <i>lbf</i>	"CRF"	"6.7"
"14"	"Fwd Trk Chan"	"SF04-32-2207-01"	"2024-T3"	"B"	63000.00 <i>psi</i>	38605.30 <i>psi</i>	1.63	"6.8"
"15"	"Aft Trk Chan"	"SF04-32-2207-02"	"2024-T3"	"B"	63000.00 <i>psi</i>	31706.43 <i>psi</i>	1.99	"6.8"
"16"	"Rivets"	"CR3213-4"	"Various"	"T"	176.50 <i>lbf</i>	89.57 <i>lbf</i>	1.94	"6.9"
"17"	"Rivet"	"CR3213-4"	"Various"	"S"	370.00 <i>lbf</i>	34.50 <i>lbf</i>	"CRF"	"6.9"
"18"	"HoneyComb"	"SF04-32-1203"	"IA-MS-0039"	"T"	63000.00 <i>psi</i>	9024.44 <i>psi</i>	6.98	"6.10"
"19"	"HoneyComb"	"SF04-32-1203"	"IA-MS-0039"	"C"	39000.00 <i>psi</i>	9024.44 <i>psi</i>	4.32	"6.10"
"20"	"HoneyComb"	"SF04-32-1203"	"IA-MS-0039"	"CS"	123.28 <i>psi</i>	56.89 <i>psi</i>	2.17	"6.10"
"21"	"HoneyComb"	"SF04-32-1203"	"IA-MS-0039"	"CC"	362.59 <i>psi</i>	59.86 <i>psi</i>	6.06	"6.10"
"22"	"Floor Insert"	"IA-MS-0038"	"6061-T6"	"T"	632.00 <i>lbf</i>	347.61 <i>lbf</i>	1.69	"6.11"
"23"	"Floor Insert"	"IA-MS-0038"	"6061-T6"	"S"	900.00 <i>lbf</i>	276.00 <i>lbf</i>	"CRF"	"6.11"
"24"	"Floor Screw"	"MS27039-1-24"	"MIL-S-7742"	"T"	2210.00 <i>lbf</i>	173.80 <i>lbf</i>	6.86	"6.11"
"25"	"Floor Screw"	"MS27039-1-24"	"MIL-S-7742"	"S"	2125.00 <i>lbf</i>	276.00 <i>lbf</i>	"CRF"	"6.11"
"26"	"A/C Attach"	"N/A"	"N/A"	"T"	285.00 <i>lbf</i>	173.80 <i>lbf</i>	1.45	"6.11"
"27"	"A/C Attach"	"N/A"	"N/A"	"S"	855.00 <i>lbf</i>	276.00 <i>lbf</i>	"CRF"	"6.11"
"28"	"HoneyComb"	"SF04-32-1205/6"	"IA-MS-0039"	"T"	63000.00 <i>psi</i>	13902.07 <i>psi</i>	4.53	"6.12"
"29"	"HoneyComb"	"SF04-32-1205/6"	"IA-MS-0039"	"C"	39000.00 <i>psi</i>	13902.07 <i>psi</i>	2.81	"6.12"
"30"	"HoneyComb"	"SF04-32-1205/6"	"IA-MS-0039"	"CS"	123.28 <i>psi</i>	35.29 <i>psi</i>	3.49	"6.12"
"31"	"HoneyComb"	"SF04-32-1205/6"	"IA-MS-0039"	"CC"	362.59 <i>psi</i>	234.97 <i>psi</i>	1.54	"6.12"
"32"	"Floor Insert"	"IA-MS-0038"	"6061-T6"	"T"	632.00 <i>lbf</i>	170.35 <i>lbf</i>	3.43	"6.13"
"33"	"Floor Insert"	"IA-MS-0038"	"6061-T6"	"S"	900.00 <i>lbf</i>	138.00 <i>lbf</i>	"CRF"	"6.13"
"34"	"Floor Screw"	"MS27039-1-24"	"MIL-S-7742"	"T"	2210.00 <i>lbf</i>	170.35 <i>lbf</i>	10.63	"6.13"
"35"	"Floor Screw"	"MS27039-1-24"	"MIL-S-7742"	"S"	2125.00 <i>lbf</i>	138.00 <i>lbf</i>	"CRF"	"6.13"
"36"	"A/C Attach"	"N/A"	"N/A"	"T"	285.00 <i>lbf</i>	170.35 <i>lbf</i>	1.66	"6.13"
"37"	"A/C Attach"	"N/A"	"N/A"	"S"	855.00 <i>lbf</i>	138.00 <i>lbf</i>	"CRF"	"6.13"
"38"	"Floor Load"	"N/A"	"N/A"	"C"	820.00 <i>lbf</i>	187.89 <i>lbf</i>	4.36	"6.14"
"39"	"Floor Load"	"N/A"	"N/A"	"C"	0.30 <i>psi</i>	0.22 <i>psi</i>	1.37	"6.14"
"40"	"HoneyComb"	"SF04-32-1201"	"IA-MS-0037"	"T"	63000.00 <i>psi</i>	16483.62 <i>psi</i>	3.82	"6.14"
"41"	"HoneyComb"	"SF04-32-1201"	"IA-MS-0037"	"C"	39000.00 <i>psi</i>	16483.62 <i>psi</i>	2.37	"6.14"
"42"	"HoneyComb"	"SF04-32-1201"	"IA-MS-0037"	"CS"	123.28 <i>psi</i>	94.80 <i>psi</i>	1.30	"6.14"
"43"	"HoneyComb"	"SF04-32-1201"	"IA-MS-0037"	"CC"	362.59 <i>psi</i>	143.82 <i>psi</i>	2.52	"6.14"

Nomenclature

1. "CRF" means "Combined RF" where the RF is based on a combined load case e.g Shear/Tension. See above value where noted.
2. "Load Case", T=Tension, C=Compression, S=Shear, CC=Core Crushing, CS=Core Shear, B=Bending
3. "§" denotes the Section where the analysis was performed.