

2024 Southeast Student Symposium - GeoWall Competition

University Name	Overall Rank	Report Score, R (50 pts max)	Mass of Reinforcing Elements				Adjusted Mass, M	Number of Minor Deductions, N _{min}	Number of Major Deductions, N _{maj}	Time over limit in minutes, T	Deflection Rating, D	Summation of Points
			From Report, m _d	In Competition, m _a	max-1	max-2						
UCF (Univ of Central Florida)	1	37.9	9.702	10.42	9.936	10.654	10.654			4		170.09
ERAU (Embry Riddle Aero Univ)	5	41.3	10.25	11.45	10.725	11.925	11.925				8	2.43
UF (Univ of Florida)	2	31.8	12	9.72	10.735	8.455	10.735	1				160.78
FAMU-FSU (FAMU Florida State Univ)	9	25	10	37.89	23.82	51.71	51.71		1			-490.65
FAU (Florida Atlantic Univ)					-0.125	-0.125						
FGCU (Florida Gulf Coast)					-0.125	-0.125						
FIT (Florida Instit Tech)					-0.125	-0.125						
FIU (Florida Intern Univ)	7	36.3	20	25.81	22.78	28.59	28.59					-92.55
UGA (Univ of Georgia)	8	30.8	30.04	37	33.395	40.355	40.355		1			-314.53
GA Tech (Georgia Tech)	4	31.3	16.15	16.55	16.225	16.625	16.625		1			41.93
GSU (Georgia Southern Univ)	3	42.4	15.69	10.11	12.775	7.195	12.775					150.78
KSU (Kennesaw State Univ)					-0.125	-0.125						
Mercer Univ					-0.125	-0.125						
UM (Univ of Miami)					-0.125	-0.125						
UNF (Univ of North Florida)	10	27.4	78.435	37.81	57.9975	17.3725	57.9975	1				-552.56
PUPR (Polytechnic Univ of Puerto Rico)	11	4.4	0	37.05	18.4	55.45	55.45	2		7		-561.35
UPRM (Puerto Rico Mayaguez Univ)	6	33	23.63	24.84	24.11	25.32	25.32	2		1		-68.80
USF (Univ of South Florida)					-0.125	-0.125						

$$Score = R + 15(20 - M) - 10N_{min} - 40N_{maj} - 2T - 20D$$

Team School:			
Item	Score	Weight	Extended
Report score out of 50, R		1	
Reinforcement mass score, enter as (20 - M)		15	
Total # of minor deductions, N _{min}		-10	
Total # of major deductions, N _{maj}		-40	
Total time over limit rounded up to nearest whole minute, T		-2	
Deflection rating, D 8 = Deflection exceeded at Stage 1 4 = Deflection exceeded at Stage 2 0 = Deflection never exceeded		-20	
Catastrophic failure any stage disqualifies the team	DQ	Stage #	
		Final Score	

Notes:

$$\text{if } |m_D - m_A| \leq 0.25$$

$$M = m_A$$

$$\text{if } |m_D - m_A| > 0.25$$

$$M = \max \left[\begin{array}{l} (m_D - 0.25) - \frac{(m_D - m_A - 0.25)}{2} \\ m_A + \frac{(m_A - m_D - 0.25)}{2} \end{array} \right]$$

Where,

m_D = reinforcing mass (g) reported in design report;

m_A = reinforcing mass (g) used during competition;

M = adjusted mass (g) rounded to two decimal places