

PHONE: (706)226-1400 FAX: (706)226-6118

Client: Airfield Systems

8028 North May Avenue Suite 201

Oklahoma City, OK 73120

Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around

Playground Equipment

Turf ID ATS Turf 69sl/st

Infill None

Underlayment: 4 oz Filter Fabric

Pad System: 2 1/8" Polygreen Foam

Grid: Air Drain
Sub Base: Concrete Bottom

Conditions: Ambient, 75°F 57% RH Report #: 62198 Page # 2 of 4

Date Tested: 6-Oct-14 Fall Height: 8' Lab # 2653-1303

Drop Area: Center of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
1	22.7	7	8'	8.01	121	723	
2	22.7	4	8'	8.01	133	827	
3	22.7	3	8'	8.01	137	849	
Average			Drops 2, 3		135	838	

Top

Quadrant of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.7	3	8'	8.01	138	849
2	22.7	3	8'	8.01	139	867
3	22.7	6	8'	8.01	135	835
Average			Drops 2, 3		137	851

Quadrant of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.7	8	8'	8.01	126	765
2	22.7	3	8'	8.01	136	867
3	22.7	4	8'	8.01	129	812
Average			Drops 2, 3		133	840

Quadrant of Assembly

1	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.6	9	8'	7.94	120	724
	2	22.7	5	8'	8.01	135	837
	3	22.7	7	8'	8.01	141	886
	Average			Drops 2, 3		138	862

Overall gmax (4 Locations, Three Drops Each Location in Same Spot)

Overall HIC (4 Locations, Three Drops Each Location in Same Spot)

848

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Playground Equipment

Turf ID ATS Turf 69sl/st Top

Infill None

Underlayment: 4 oz Filter Fabric

Pad System: 1 1/8" Polygreen Foam

Grid: Air Drain
Sub Base: Concrete Bottom

Conditions: Cold Min 8hrs @ 20°F Report #: 62198 Page # 3 of 4

Date Tested: 7-Oct-14 Fall Height: 8' Lab # 2653-1303

Drop Area: Center of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.7	4	8'	8.01	133	869
2	22.7	3	8'	8.01	144	960
3	22.7	1	8'	8.01	146	969
Average			Drops 2, 3		145	965

Quadrant of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.6	10	8'	7.94	122	754
2	22.6	8	8'	7.94	132	842
3	22.7	1	8'	8.01	138	901
Average			Drops 2, 3		135	872

Quadrant of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.6	6	8'	7.94	127	792
2	22.7	1	8'	8.01	142	927
3	22.7	3	8'	8.01	143	915
Average			Drops 2, 3		143	921

Quadrant of Assembly

ı	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.6	5	8'	7.94	127	779
	2	22.6	7	8'	7.94	141	900
	3	22.6	7	8'	7.94	138	879
	Average			Drops 2, 3		140	890

Overall gmax (4 Locations, Three Drops Each Location in Same Spot)

Overall HIC (4 Locations, Three Drops Each Location in Same Spot)

912

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Infill None

Underlayment: 4 oz Filter Fabric

Pad System: 1 1/8" Polygreen Foam

Grid: Air Drain
Sub Base: Concrete Bottom

 Conditions:
 Hot
 Min 8 hrs @ 120°F
 Report #:
 62198
 Page #
 4 of 4

 Date Tested:
 8-Oct-14
 Fall Height:
 8'
 Lab #
 2653-1303

Drop Area: Center of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.6	0	8'	7.94	138	860
2	22.7	8	8'	8.01	146	938
3	22.7	2	8'	8.01	146	935
Average			Drops 2, 3		146	937

Quadrant of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.6	4	8'	7.94	139	865
2	22.7	1	8'	8.01	141	889
3	22.7	7	8'	8.01	145	916
Average			Drops 2, 3		143	903

Quadrant of Assembly

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	22.6	4	8'	7.94	128	772
2	22.7	5	8'	8.01	130	823
3	22.7	6	8'	8.01	131	821
Average			Drops 2, 3		131	822

Quadrant of Assembly

ı	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.6	1	8'	7.94	136	842
	2	22.7	3	8'	8.01	143	901
	3	22.7	1	8'	8.01	144	914
	Average			Drops 2, 3		144	908

Overall gmax (4 Locations, Three Drops Each Location in Same Spot)

141

Overall HIC (4 Locations, Three Drops Each Location in Same Spot)

892

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