

Client: Airfield Systems 8028 North May Avenue Suite 201 Oklahoma City, OK 73120

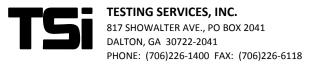
Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

Turf ID	ATS Turf (69sl/st		Тор				
Infill	None							
Underlayment:	4 oz Filtei	r Fabric						
Pad System:	1 1/8" Po	lygreen Foam	1					
Grid:	Air Drain	10						
Sub Base:	Concrete			Botto				
				•				
Conditions:	Ambient,	75°F 57% RH		Report #:	62197	Page #	2 of 4	
Date Tested:	6-Oct-14			Fall Height:	5'	Lab #	2653-1302	
Drop Area:	Center of Assembly							
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	17.9	2	5'	4.98	154	769	
	2	17.9	5	5'	4.98	163	829	
	3	18.0	4	5'	5.04	164	847	
	Average			Drops 2, 3		164	838	
	Quadrant of Assembly							
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	17.8	6	5'	4.92	146	687	
	2	17.9	10	5'	4.98	171	859	
	3	17.9	7	5'	4.98	180	931	
	Average			Drops 2, 3		176	895	
	Quadrant of Assembly							
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	17.8	5	5'	4.92	144	659	
	2	17.8	6	5'	4.92	167	822	
	3	17.9	8	5'	4.98	174	878	
	Average			Drops 2, 3		171	850	
	Quadrant	t of Assembly	,					
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	17.8	7	5'	4.92	144	685	
	2	17.9	1	5'	4.98	163	839	
	3	17.9	7	5'	4.98	175	930	
	Average			Drops 2, 3		169	885	
				ee Drops Each Loc				

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

867

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. THE REPORTS AND LETTERS, AND OUR NAME, OUR SEALS, OR OUR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.



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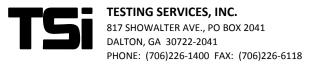
Test: ASTM F1292: Impact Attenuation of Surface Systems in and Around Playground Equipment

Turf ID	ATS Turf 6	59sl/st		Тор					
Infill	None	· · · , · · ·							
Underlayment:		4 oz Filter Fabric							
Pad System:	1 1/8" Polygreen Foam								
Grid:	Air Drain	iy Breen roun	•						
Sub Base:	Concrete			Botto	m				
Sub Buse.	Concrete			↓ Dotto					
Conditions:	Cold	Min 8hrs @	20°F	Report #:	62197	Page #	3 of 4		
Date Tested:	7-Oct-14			Fall Height:	5'	Lab #	2653-1302		
Drop Area:	Center of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	17.9	5	5'	4.98	146	684		
	2	18.0	7	5'	5.04	175	897		
	3	18.0	4	5'	5.04	179	920		
	Average			Drops 2, 3		177	909		
	Quadrant of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	18.0	5	5'	5.04	155	745		
	2	18.0	6	5'	5.04	148	722		
	3	17.9	7	5'	4.98	157	779		
	Average			Drops 2, 3		153	751		
	Quadrant	of Assembly	,						
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	18.0	0	5'	5.04	132	626		
	2	18.0	2	5'	5.04	156	807		
	3	18.0	4	5'	5.04	156	806		
	Average			Drops 2, 3		156	807		
	Quadrant of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	18.0	5	5'	5.04	143	708		
	2	18.0	6	5'	5.04	147	724		
	3	18.1	2	5'	5.09	171	924		
	Average			Drops 2, 3		159	824		
	Overall gmax (4 Locations, Three Drops Each Location in Same Spot)								

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

822

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Infill	None								
Underlayment:	4 oz Filter	Fabric							
Pad System:	1 1/8" Polygreen Foam								
Grid:	Air Drain								
Sub Base:	Concrete								
				*					
Conditions:	Hot	Min 8 hrs @	2120°F	Report #:	62197	Page #	4 of 4		
Date Tested:	8-Oct-14			Fall Height:	5'	Lab #	2653-1302		
Drop Area:	Center of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	17.9	8	5'	4.98	154	774		
	2	18.0	8	5'	5.04	158	810		
	3	18.0	1	5'	5.04	159	812		
	Average			Drops 2, 3		159	811		
	Quadrant of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	17.9	8	5'	4.98	148	746		
	2	18.0	3	5'	5.04	137	677		
	3	18.0	9	5'	5.04	169	844		
	Average			Drops 2, 3		153	761		
	Quadrant of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	17.9	7	5'	4.98	168	844		
	2	18.0	6	5'	5.04	173	893		
	3	18.0	2	5'	5.04	163	858		
	Average			Drops 2, 3		168	876		
	Quadrant of Assembly								
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC		
	1	18.0	7	5'	5.04	166	840		
	2	18.0	7	5'	5.04	168	881		
	3	18.0	4	5'	5.04	152	762		
	Average			Drops 2, 3		160	822		
	Overall gmax (4 Locations, Three Drops Each Location in Same Spot)						160		

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

817

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