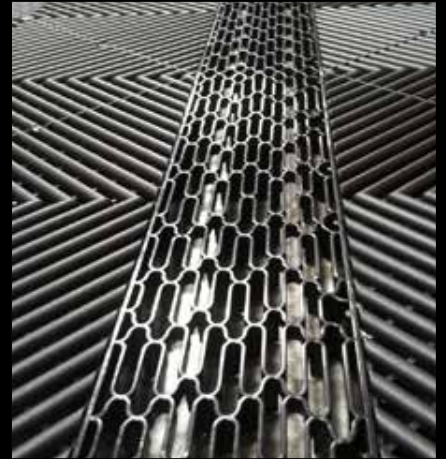




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Swisstrax is the modern alternative to standard concrete and epoxy flooring.

TESTING CERTIFICATION



Transform your floor.

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The following sample(s) was/were submitted and identified by the client as:

Sample Description : PVC FLOOR TILE

Sample Receiving Date : APR.16,2012

Testing Period : APR.16,2012 TO JUN.12,2012

Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT

Test Requested : ALL OF THE FOLLOWING TEST ITEMS WERE
CONDUCTED ACCORDING TO BS EN649:2011 AND
THE STANDARD SPECIFIED BY CLIENT

1. RESISTANCE TO CHEMICALS(EN 423:1993)
2. EFFECT OF A CASTOR CHAIR (EN 425:1994)
3. SIDE LENGTH, SQUARENESS AND STRAIGHTNESS
OF TILES (EN 427:1994)
4. OVERALL THICKNESS (EN 428:1993)
5. THE THICKNESS OF LAYERS (EN 429:1993)
6. MASS PER UNIT AREA (EN 430:1994)
7. PEELING STRENGTH OF LAYERS(EN 431:1994)
8. RESIDUAL INDENTATION AFTER STATIC LOADING
(EN433:1994)
9. DIMENSIONAL STABILITY AND CURING AFTER
EXPOSURE TO HEAT (EN434:1994)
10. DETERMINATION OF FLEXIBILITY (EN 435:1994)
11. WEAR RESISTANCE (EN660-2:1999)
12. RESILIENT,TEXTILE AND LAMINATE FLOOR
COVERINGS-CLASSIFICATION(EN685:2007)
13. COLOR FASTNESS TO LIGHT(EN20 105-B02:1999)
14. 8 TOXIC ELEMENT TEST(EN 71-3:1995)
15. REACTION TO FIRE TEST(EN 13501-1:2007)
16. SLIP RESISTANCE TEST (DIN 51130: 2010)
17. DYNAMIC COEFFICIENT OF FRICTION ON DRY
FLOOR SURFACES(EN 13893:2002)
18. PHTHALATE CONTENT(EN 14372:2004)
19. FUNGUS TEST(ASTM G21:1999)
20. DETERMINATION OF DENSITY(EN 436:1994)



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Test Result(s)

: FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)

Conclusion

: THE TEST DATA WERE PROVIDED TO CLIENT FOR THEIR OWN ANALYSIS.

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Test Conducted:

1. Resistance to chemicals (EN 423:1993)
2. Effect of a castor chair (EN 425:1994)
3. Side length, squareness and straightness of tiles (EN 427:1994)
4. Overall thickness (EN 428:1993)
5. The thickness of layers (EN 429:1993)
6. Mass per unit area (EN 430:1994)
7. Peeling strength of layers (EN 431:1994)
8. Residual indentation after static loading (EN433:1994)
9. Dimensional stability and curing after exposure to heat (EN434:1994)
10. Determination of flexibility (EN 435:1994)
11. Wear resistance (EN660-2:1999)
12. Resilient, textile and laminate floor coverings-classification (EN685:2007)
13. Color fastness to light (EN20 105-B02:1999)
14. 8 Toxic element test (EN 71-3:1995)
15. Reaction to fire test (EN 13501-1:2007)
16. Slip resistance test (DIN 51130: 2010)
17. Dynamic coefficient of friction on dry floor surfaces (EN 13893:2002)
18. Phthalate content (EN 14372:2004)
19. Fungus test (ASTM G21:1999)
20. Determination of density (EN 436:1994)



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Test Property	Test Method	Test requirements	Nominal	Result	Rating
Resistance to chemicals	EN 423:1993	Meet Class 0	--	Class 0	Pass
Effect of a castor chair	EN 425:1994	Record the nature of damage observed	--	No obvious damage	Pass
Side length, squareness and straightness of tiles	EN 427:1994	Squareness and straightness $\leq$ 0.25mm for side length $\leq$ 400mm, $\leq$ 0.35mm for side length $>$ 400mm) Dimension: $\leq$ 0.13% of nominal length up to 0.5mm maximum	304.8x304.8 406.4x406.4 457.2x457.2 600x600 101.6x914.4 152.4x914.4 304.8x609.6 228.6x1219.2mm	Squareness, straightness: $<$ 0.25mm Dimension: $<$ 0.13%	Pass
Overall thickness	EN 428:1993	Average : nominal value $^{+0.13}_{-0.10}$ mm Individual : average value $\pm$ 0.15mm	2.0/2.5/3.0/ 4.0/5.0mm	Average : -0.02/ -0.01/0.03/ -0.04/0.05mm Individual : 0.07/-0.04; 0.04/-0.04; 0.04/-0.05; 0.06/-0.03; 0.03/-0.10mm	Pass
The thickness of layers	EN 429:1993	Average : nominal value $^{+13\%}_{-10\%}$ mm Individual : average value $\pm$ 0.05mm or 15% below	0.3/0.5/0.7 mm	0.32/0.53/ 0.74mm	Pass
Mass per unit area	EN 430:1994	Average : nominal value $^{+13\%}_{-10\%}$ mm	0.3/2.0 0.3/2.5 0.3/3.0 0.5/2.5 0.5/3.0 0.7/2.5 0.7/3.0	3704g/m ² 4619g/m ² 5819g/m ² 4460g/m ² 5330g/m ² 4211g/m ² 5232g/m ²	--

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Test Property	Test Method	Test requirements	Nominal	Result	Rating
Peeling strength of layers	EN 431:1994	Record the test result	--	Len.90.6N Tran.91.1N	--
Residual indentation after static loading	EN433:1994	$\leq 0.1\text{mm}$	--	0.08mm	Pass
Dimensional stability and curing after exposure to heat	EN434:1994	Shrinkage $\leq 0.25\%$ Curling $\leq 2\text{mm}$	0.3/2.0 0.3/2.5 0.3/3.0 0.5/2.5 0.5/3.0 0.7/2.5 0.7/3.0	Len./Tran./Cur. 0.09%/0.09%/0.02 0.08%/0.05%/0.04 0.11%/0.09%/0.11 0.08%/0.02%/0.02 0.07%/0.06%/0.04 0.05%/0.03%/0.09 0.10%/0.07%/0.13	Pass
Determination of flexibility	EN 435:1994	Bend around 20mm mandrel shows no signs of cracking	--	Bend around 15mm mandrel shows no signs of cracking	Pass
Wear resistance	EN660-2:1999	$\leq 2.0\text{mm}^3$	--	1.2mm ³ Wear group:T	Pass
Resilient, textile and laminate floor coverings-classification	EN685:2007	Record the Classification	0.3/2.0 0.3/2.5 0.3/3.0 0.5/2.5 0.5/3.0 0.7/2.5 0.7/3.0	23/31 23/31 23/31 32 32 34 34	--
Color fastness to light	EN20 105-B02:1999	$\geq$ Grade 6	--	$\geq$ Grade 6	Pass
8 Toxic element test	EN 71-3:1995	Pb $\leq 90\text{PPM}$ Sb $\leq 60\text{PPM}$ As $\leq 25\text{PPM}$ Ba $\leq 1000\text{PPM}$ Cd $\leq 75\text{PPM}$ Cr $\leq 60\text{PPM}$ Hg $\leq 60\text{PPM}$ Se $\leq 500\text{PPM}$	--	<5 PPM <5 PPM <2.5 PPM <10 PPM <5 PPM <5 PPM <5 PPM <10 PPM	Pass

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Test Property	Test Method	Test requirements	Nominal	Result	Rating
Reaction to fire test	EN 13501-1:2007	Record the test result	--	B _{fl} -S1	--
Slip resistance test	DIN 51130:2010	--	--	R9	--
Dynamic coefficient of friction on dry floor surfaces	EN 13893:2002	Record the test result	--	0.610	--
Phthalate content	EN 14372:2004	Total (DBP+BBP+DEHP) ≤ 0.1%ppm Total (DINP+DNOP+DIDP) ≤ 0.1%ppm		Total (DBP+BBP+D EHP): 0.01%ppm Total (DINP+DNOP +DIDP) ≤ 0.023%ppm	Pass
Fungus test	ASTM G21:1999	Record the test result	--	Grade 0	--
Determination of density	EN 436:1994	Record the test result	0.3/2.0 0.3/2.5 0.3/3.0 0.5/2.5 0.5/3.0 0.7/2.5 0.7/3.0	1719kg/m ³ 1823kg/m ³ 1840kg/m ³ 1685kg/m ³ 1738kg/m ³ 1636kg/m ³ 1711kg/m ³	--

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Annex: Single test item corresponding to SGS test NO. list as follows:

TEST REQUESTED	SGS Test NO.
1.RESISTANCE TO CHEMICALS (EN 423:1993)	SHHG1204010967BM
2.EFFECT OF A CASTOR CHAIR (EN425:1994)	SHHG1204010966BM
3.SIDE LENGTH,SQUARENESS AND STRAIGHTNESS OF TILES (EN 427:1994)	SHHG1205013757BM
4.OVERALL THICKNESS(EN428:1993)	SHHG1204010964BM
5.THE THICKNESS OF LAYERS (EN 429:1993)	SHHG1204010963BM
6.MASS PER UNIT AREA(EN 430:1994)	SHHG1205013752BM
7.PEELING STRENGTH OF LAYERS (EN 431:1994)	SHHG1204010961BM
8.RESIDUAL INDENTATION AFTER STATIC LOADING(EN433:1994)	SHHG1204010960BM
9.DIMENSIONAL STABILITY AND CURING AFTER EXPOSURE TO HEAT (EN434:1994)	SHHG1205013751BM
10.DETERMINATION OF FLEXIBILITY(EN435:1994)	SHHG1204010958BM
11.WEAR RESISTANCE(EN660-2:1999)	SHHG1204010957BM
12.RESILIENT,TEXTILE AND LAMINATE FLOOR COVERINGS –CLASSIFICATION(EN685:2007)	SHHG1204010956BM
13.COLOR FASTENESS TO LIGHT (EN20105- B02:1999)	SHHG1204010955BM
14. 8 TOXIC ELEMENT TEST (EN 71-3:1995)	SHHG1204010954BM
15.REACTION OF FIRE TEST(EN13501-1:2007)	SHHG1204010953BM
16.SLIP RESISTANCE TEST(DIN 51130:2010)	SHHG1204010952BM
17.DYNAMIC COEFFICIENT OF FRICTION ON DRY FLOOR SURFACES (EN13893:2002)	SHHG1204010951BM
18.PHTHALATE CONTENT(EN14372:2004)	SHHG1204010950BM
19.FUNGUS TEST(ASTM G21:1999)	SHHG1204010949BM
20.DETERMINATION OF DENSITY(EN436:1994)	SHHG1205013753BM

End of Report



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