

LESSO



uPVC WINDOW & DOOR SOLUTION

1800 102 2128
www.lesso.co.in



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About Lesso



LESSO Group, started in 1986, is world-wide leading industrial group of home building material, listed in Hong Kong Stock Exchange (stock code: 2128). The range of products include uPVC Profile, uPVC plumbing products, sanitary ware, CP fittings, modular kitchen, decorative plates, fire-fighting equipments, water purifiers, electrical switches & sockets, wooden doors etc. Ranking among the toppest in uPVC pipe manufacturers in the world, the sales revenue in 2021 is over 37000 Crore Indian Rupees.

With rapid global development of its business, LESSO Group has a total of 30,000 employees in 80 holding subsidiaries and more than 30 production bases distributed in 18 provinces of China, US, Canada, India, Dubai, Oman, Indonesia and Uganda etc. LESSO Group has continually perfected its strategic layout and broadened its sales network and market, to provide products and services to customers in a timely and efficient way.

Lesso Buildtech Pvt Ltd, started in 2012 in India as its headquarters in Gurgaon and Regional offices are in Bengaluru, Mumbai, Chandigarh, Kolkata, Lucknow, Pune, Chennai, Hyderabad and Ahmedabad.

LESSO Buildtech Pvt. Ltd. is wholly subsidiary of LESSO Group represented internationally. In India, LESSO is the leading manufacturer of uPVC Windows & Doors Profile; and also have absorbed decades of field experience in trading of comprehensive range of building material, including modular kitchen, uPVC Pipes, decorative boards etc. At LESSO, our philosophy is to persistently, continually upgrade, innovate our product and services in a productive way for setting a benchmark of excellence in all the building material solutions.

SGS



ATMY ANALYTICAL LABS PVT.LTD.

ANALYSIS OF TESTS Accredited Laboratory
ISO 9001:2015, ISO 17025:2017
100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 89

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SHIRAM INTERNATIONAL SCIENTIFIC AND INDUSTRIAL RESEARCH FOUNDATION

(A unit of SHIRAM International Scientific and Industrial Research Foundation)

An ISO- 9001-2008 Certified Institute

CERTIFICATE

00030243

Issued to:
GUANGDONG LIANGXI TECHNOLOGY INDUSTRIAL CO.,LTD
GUANGDONG STATE
LONGGANG TOWN
GUANGDONG STATE, PEARHAIAN CITY, GUANGDONG, CHINA

ISSN No. 208-114-1959
Date: 11/05/14
No. 208-114-1959
GC-14-082-040

Kind of Issue: ANNE CHEN

Year Recd: Nil

Sample Particulars:

One sample (described as a PVC profile) TSM 40-1 White (Shade), was measured.

"The sampling was not carried out by Shiram Institute for Industrial Research. The sample details provided in the first certificate are based on information supplied by the client."

TEST RESULTS

Sl.No.	Items	Results	Corresponding standard
1.	Ultimate Tensile, %	1.68	As per guidelines of ASTM D 790
2.	Ultimate Elongation, %	17	As per guidelines of ASTM D 2240
3.	Modulus, MPa	2400	As per guidelines of ASTM D 570
4.	Water Absorption, %	Nil	As per guidelines of ASTM D 570
5.	Vicat Softening Temperature, °C	84	As per guidelines of ASTM D 1033
6.	Shore Hardness, D	80	As per guidelines of ASTM D 2240
7.	Thermal Conductivity, w/m.k	0.25	As per guidelines of ASTM D 2240 (N/A)
8.	Calor Content (Actual/wet) (w/w)	Butter class 4	As per guidelines of ASTM D 2240 (N/A)
9.	Water Absorption (24 hrs in water under standard testing of 2 mm)	No such observed	As per guidelines of IS 4083
10.	Heat Deflection after being up to 90 °C for 30 s.	No colour change or any deformation was observed	Using Heat Aging Oven
11.	Initial Moisture, %	1.0	As per guidelines of IS 4083

DATE: 07/05/2014
BY: 00030243

ASSTORING INSTITUTE
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Fax: 91-91-2746-3471, 3766720

P.12

DALLAS LABORATORIES, INC.		
Consultants and Technologists Chemical and Petroleum Chemicals P.O. BOX 10000 DALLAS TEXAS 75210 10200 BELT ROAD DALLAS TEXAS 75218 PHONE (214) 358-1000 FAX (214) 358-1000	REPORT NO. _____ PROJECT NO. _____ DATE OF REPORT _____ REPORT MADE AT _____ REPORT MADE BY _____ REPORT MADE FOR _____	
Submitted by: Guangdong Lianshi Technology Industry Co., Ltd Jianshi Industries Park, Tian Yuan Town Huizhou City 520713 - China Date: February 5, 2012		
Submitted by: Alan Huang Yachua Report No: 44553		
REPORT		
44553 KC-15, White PVC Powder		
PROCEDURE		
Sample was tested to the following tests as required by ASTM D4242 with the exception of weathering.		
Test/Method	RESULTS	Remarks
Impact Resistance (ASTM D4242) Procedure A	1.4 in. behind +2.7 in. behind	
Impact Resistance (ASTM D256) Method A	1.69 ft. notch thickness	
Tensile Properties (ASTM D338) Tensile Strength Modulus of Elasticity	6.68 psi 4.42 x 10³ psi	
Deflection Temperature Under Load (ASTM D648) 304 psi stress	160°F	
Coefficient of Linear Expansion (ASTM D698) -35 to 30°C	5.9 x 10⁻⁵ /°C 5.9 x 10⁻⁵ /°C (90°F)	
The ASTM D4242 test classification is 1-214-A-32.		
DALLAS LABORATORIES, INC.		
Report & Major Shirley C. V. Information Technology Co., Ltd Room 1005 Tianyu Bldg, No. 126 Shengshi Rd Songjiang area, Shanghai, China - 201600 Alan Cheng		
Room 70, Jones, Vice President		
Analyst: T. KJ JWU		

A • L • I

(ANALYSIS • OPERATION • ASSURANCE)



**AAMA
CERTIFICATION PROGRAM**

Date: January 18, 2012

PLANT ACTION REPORT

PLANT CODE: SHIMALE

Inspection No. Initial, was performed at the manufacturing facilities of Guangdong Liancheng Technology Industrial Co., Ltd. in Liancheng Town, Foshan City, Guangdong Province, China, on November 23, 2011 and reviewed with Sheng Yuchuan, Yang Zhifeng and Diao Deng.

The profiles and quality control system were inspected to ascertain conformance to the procedural requirements of the AAMA 100 Profile Certification Program.

1. The following actual discrepancies require immediate action:

None Noted (A/R in order)

Lead break checks were performed and no lead was detected.

PVC Compound (DC-15) was sampled for oil stain testing.

2. Profiles sampled for testing to AAMA 360-08:

Profile <u>CW12-04</u>	Lot/Run Color <u>White</u>	Tests to be Performed Laboratory <u>X</u> <u>X</u>
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Note: No production due to initial visit.

ASSOCIATED LABORATORIES, INC.


William W. Jones

Cc: Customers Must Receive
K/W's)

About uPVC

uPVC (Un-plasticized Poly Vinyl Chloride) is one of the most versatile Polymer found in the century. uPVC has evolved from basic plastic to one of the most advanced and researched products in the world, like DNA manipulation, researchers have managed to add all the benefits of wood and aluminum while excluding all their weaknesses. uPVC is most often the choice of the building industry as a low-maintenance and relatively low cost building material. It can come in wide range of finishes as well as colors and is often used as a substitute for wood in places such as window frames, siding and weather boarding.

Advantages of uPVC Windows & Doors Profile



THERMAL INSULATION AND ENERGY EFFICIENT

uPVC Windows and Doors profile has a low thermal conductive, which can reduce the loss of energy. They are designed with multi-chambers which also reduce the transmission of heat.



WATER TIGHTNESS

uPVC Windows and Doors profile absorbs water below 0.1%. Moreover the uniquely designed weep hole and weather strip in the meeting rail provide water resistance proof.



SOUND INSULATION

The multi-chambers, welded corners and tight seals offer excellent sound insulation.



TERMITE PROOF

uPVC Windows and Doors are not affected by Termites.



STRENGTH AND SECURITY

All main uPVC profiles are reinforced with steel, providing a high level of security.



MAINTENANCE FREE

The closed smooth surface of uPVC profiles ensures ease of clean by using gentle household detergent dissolved in water. They are also available with a foil coating in different colors, so you do not need to paint it.



ENVIRONMENTAL FRIENDLY

Lead free, consumes less power while extruded and are completely recyclable due to the presence of calcium zinc stabilizer.



CORROSION RESISTANCE

uPVC Windows and Doors profile is free from the attack of acids, alkalis, waster gases and salts.



FIRE RESISTANCE

uPVC material used in Windows and Doors are difficult to ignite and do not support or enhance accidental fires unlike their timber counterparts.



ELECTRICITY INSULATION

uPVC Windows and Doors profile has high electricity insulation.



POLLUTION RESISTANCE

uPVC Windows and Doors is stable material so it is pollution resistant.



WEATHER RESISTANCE

uPVC Windows and Doors are exposed in scorching sun, storms, dryness, high humidity or other extreme weather change. They do not rot, corrode nor warp. Even after many years, the windows and doors are still attractive, perfectly tight and working well.



Types of uPVC Windows & Doors



Casement Door with Roll up Mesh



Tilt and Turn Window



Sliding Door



Casement Window



Sliding Window with Mesh



Top Hung



Casement Window with Roll up Mesh



Slide & Fold Door



Single track Sliding Window

Extrusion and Workmanship

LESSO has devoted in accomplished, up-to-date production technologies. Over the years our manufacturing plants are furnished with modernized extruders, machinery from battenfeld-cincinnati Germany with advance products formula from North America strategically cooperation with best raw material supply around the world, including Dupont, Mitsubishi, Arkema, Shinetsu etc.

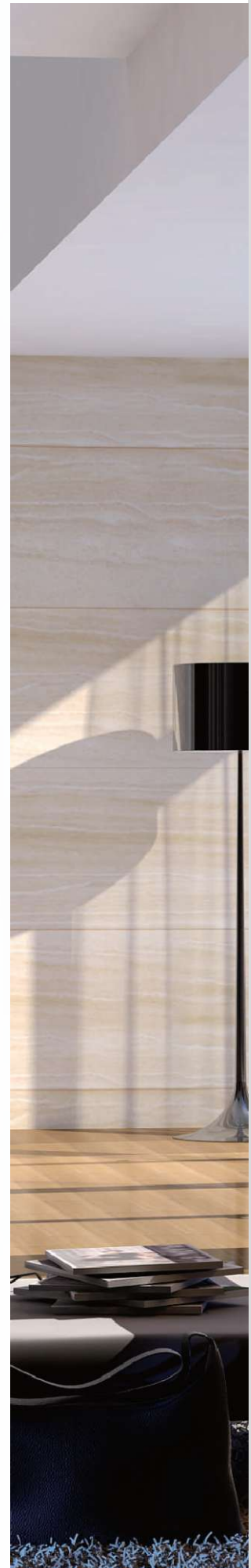
LESSO mission of "Creating a Relaxing Life" is established our product quality standards and improve our product quality according to the requirement of the customers in the market. LESSO is committed to becoming a world-class conglomerate in the broader home building material sector, as a manufacturer we provides good quality products and services with competitive price which helps customers to build their homes with Quality and comfort. Our top-end equipment provides the guarantee of quality of products and services of brand name LESSO.



Dignified Design In Target

LESSO gives the promise for World Class Design. We respect our customer's needs accordingly we developed our Profile Strong economical and eco-friendly.

According to the Indian climate and culture LESSO provides wide range of design for our customer such as casement, sliding and tilt and turn Windows and Doors.





Establishing Skillful Proficiency

Globally, LESSO is renowned for its high quality and superiority among the customers. To sustain that faith, LESSO has improvised its product quality and upgrade its product range by providing skillful training to the personnel under defined procedure and measures to establish a benchmark for themselves.

At LESSO, we have our own experienced technical and training team who are committed to spent hours on training of the personnel by providing them training lesson and share its valuable experiences that will help the personnel in increasing their knowledge. Training content includes knowledge about how to fabricate the window, fixing of hardware, operation of assembly machines, windows and doors design and use the technology in an efficient manner.



Quality Assurance Standard

In Today's era, Quality is the most important factor for establishing a product in the market. LESSO offers a long range of premium quality uPVC Doors and Windows to our customers at very cost effective prices. The products are designed & developed by using premium quality materials with world-wise experienced tools & techniques that ensures its high durability, fine finish and standard dimensional accuracy. With state of the art production facilities in china and Canada, LESSO uPVC Windows system fulfil the requirements of the American standards and is certified with British standards. LESSO uPVC profiles are designed as per Indian Tropical conditions with Rohs certified profile. The company's quality management system was awarded the Best Promising Brand-WCRC.

LESSO uPVC Windows and Doors profile is made up of the top quality materials PVC. It is designed and manufactured with strict standards, which assure that it can work under the temperature ranging from -50 degree C to 70 degree C, the welding angle is high tensile strength, the anti-aging is up to 8000h, the life time is more than 50 years. LESSO profiles are selected premium uPVC profile formula from North America and scientific profile structural design according to ISO 9001-2008.



Independent Research and Development keep step with the World

LESSO sets a benchmark for the competitors and works on the philosophy i.e. "Think Big". At LESSO we merge our experiences, expertise and innovative strength to transform newer heights in superiority. LESSO always keeps continual innovation and development, following global scientific research results. LESSO Group embraces a R&D institute with over 1000 scientific researchers and scientific research platforms equipped with advanced devices from Germany, America, Denmark, Switzerland and Japan, including a post-doctoral research center, laboratories accredited by CNAS. It has become one of the favorite customers brands of home furnishing and had high influence in building materials industry due to its innovative technology and skills.





Lesso uPVC Windows and Doors Systems around the World





Environmental Preservation and Assurance



LESSO is an associated member of Griha Council as Griha is an acronym for Green rating for Integrated Habitat Assessment, which is a mandate guideline in promoting and development of Infrastructure in India. Lesso provide ROHS, Lead free uPVC Windows & Doors Profile and committed to using environmentally friendly calcium-zinc formulation.

LESSO and its supply chain partners are committed to the environment and offering sustainable whole life costing for improved communities throughout every stage of production to site, through both its manufacturing processes and through its product. uPVC Windows and Doors Profile has a low thermal conductive, which can reduce the loss of energy. They are designed with multi-chambers which also reduce the transmission of heat. uPVC Windows and Doors is combined with the excellent insulation factor of uPVC frames, our products provide a more comfortable living environment to the customers. uPVC Windows and Doors are poor conductors of heat they have excellent sealing with multiple point locks and fusion welded joints hence conserve.





Clean India, Green India

We are with India's Swachh Bharat Abhiyaan and Green India revolution. Our uPVC formula is lead-free calcium-zinc stabilizer for providing eco-friendly and high quality Windows and Doors.



Transforming Vision into Action

Our vision is to become the leading organization in all over country by delivering best quality products and services to its customers in all building material solution. LESSO has actually taking corrective measures and steps to transform our vision into action. Every year, LESSO has come up with new improvisation like ROHS profile, new variety of profile color, advertising and promotion. LESSO selected high quality profile, hardware and accessories, and advanced equipments from North America and Europe.



Our Customer Satisfaction is our Reward



Discover The Luxury of Gloss

Lesso uPVC is Range of Glamorous Design in Vibrant Colors

Dark-Oak, Golden-Oak, Walnut and Mohogany laminates finish gives a creative look to your building. The Lamination Profile look and feel like natural wood color which make your building attractive and outside of the profile is laminated with high quality foil and natural brown on the inside for Windows and Doors.

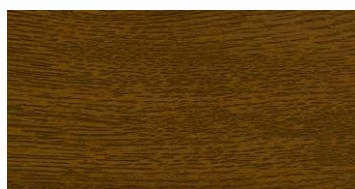
Natural Finish Lamination



Dark Oak



Golden Oak



Walnut



Mohogany



Projects



RAMKI (Discovery City), Hyderabad



Ajnara Panorma, Greater Noida



Suchir India Timber leaf, Hyderabad



Casa Green, Noida

25 Million+ sq. ft

Projects

185+



Paramount Golf Foreste, Greater Noida



MJ-Amedus, Bengaluru



Ammatra Homes, Greater Noida



Sunworld Arista, Noida



Hasini Infra Platinum, Andhra Pradesh



Pacific Golf Estate, Dehradun



Paramount Emotions, Greater Noida



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