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strengthen the use and management of building glass and reduce the occurrence of personal injuries and property damages, the Department of Housing and Urban-Rural Development in Guizhou province recently issued the "Notice on Promoting the Management of Building Glass Applications", stipulating all levels of government and the construction administrative units shall further enhance the supervision and management over the application of building fenestration and curtain walls by including the design, installation, acceptance, and property management systems for thorough regulatory supervision throughout the entire process. According to reports, building safety glass and building safety insulating glass must pass the China Compulsory Certificate (CCC certification) program as required by the national regulations. Products that have not been certified, have not renewed the certificate, or have no certification marks affixed shall not be used. In addition to enforcing compliance with provisions stipulated in the document and technical standards, safety glass with shatter-resistant properties such as laminated glass, laminated insulating glass, coated insulating glass, coated insulating glass shall be used in the following environment. For example, fenestration in buildings taller than 50 meters; windows, doors, or floor-to-ceiling windows larger than 1.5 m²; glass wall curtains for places such as commercial centers, transportation hub, public sports and culture facilities where large crowds and heavy traffic are expected, located near roads or plazas, or with entrances, exits, and walkways at the lower section. LandGlass has always attached great importance to the safety of glass for high-rise buildings and will take this opportunity to work with the local safety glass manufacturers for a "Safer Guizhou". Currently, there are more than 30 glass tempering production lines made by LandGlass operating in Guizhou. Page 16 Strategic Partnership between CNBM and Baidu Stimulates the Intelligent Upgrade of China's Manufacturing Industries 11.08.2020 views : 3369 On July 13, China National Building Materials and Baidu entered into a strategic cooperation agreement to launch an in-depth collaboration in a number of areas, including smart factories, industrial unmanned driving, digital mines, new data center infrastructure, and enterprise AI systems. In response to the nation's call for a "New Infrastructure," the two parties team up to accelerate the transformation of Chinese enterprises to digitalization and intellectualization, and push forward "Made in China" towards "Intelligent Manufacturing in China." It is reported that the value of the contracts signed in the first phase of the cooperation amounts to 27 million yuan, with the total value of the entire strategic cooperation expected to exceed 10 billion yuan.As a typical state-owned enterprise, the world's leading material developer, and comprehensive service provider, CNBM is making its contributions to the "New Infrastructure" endeavor in the areas of high-precision materials, intelligent manufacturing, and industry cloud platform. In the new round of technological and industrial reform intelligent manufacturing has become the area of focus and main direction of development opportunities worldwide. The cooperation between CNBM and Baidu will provide a model for intelligent upgrading of China's manufacturing, accelerate the integration of more enterprises with AI, and promote the high-quality development of China's economy through advanced manufacturing technologies,Just a day before CNBM signing the contract with Baidu, the first full-coverage smart factory created by LandGlass for Zhejiang Zhaomin Glass Technology Co. Ltd. welcomed the visitors from the Zhejiang Glass Industry Association. From intelligent glass tempering to intelligent networking, from IoT to smart factory, the R&D team of LandGlass combines decades of core experiences in glass processing with Industry 4.0 and IoT information technology to provide total solutions of the smart factory for domestic and foreign clients, helping them to achieve lean and efficient intelligent manufacturing and management, to keep improving themselves, and to become the leaders in the industry! Page 17 marketing@landglass.com +86-379-80890369 WhatsApp: +8615838533083 Guangjian Building, No.12 Wangcheng Road, Luoyang, China Page 18 National Video Conference Held for Flat Glass Market Analysis 22.05.2020 views : 3302 In order to mitigate the impact of the pandemic to the flat glass industry and stabilize the production, pricing, and confidence in the industry, the China Architectural and Industrial Glass Association convened a national video conference for flat glass market analysis on April 9, 2020. Baiheng Zhang, the president of the association and Hui Zhao from the Department of Raw Materials of MITI delivered speeches at the conference. About 200 people including the heads of sales from float glass manufacturers nationwide, the heads of regional self-regulatory organizations, and some deputy presidents of the association attended the meeting. The secretary general of the association, Zhizhou Zhou presided over the conference.Mr. Baiheng Zhang pointed out in his speech that the industry is facing some adverse changes in the internal and external contexts as the outbreak has seriously affected the normal operation of the industry. In terms of external factors, the pandemic has exerted severe impact on China's macro-economy. Although most industries are accelerating their pace to resume production, the market still needs time to recover. The supportive policies may not provide immediate relief to real estate, automobile, photovoltaic, and other key markets that suffered heavily during the outbreak. The great uncertainty of pandemic overseas inevitably affects the export markets. From the perspective of internal factors, the continuity characteristics of the production process make it difficult to adjust the production capacity. Since the outbreak, despite the active or passive reduction of pulling strength, inventory continues to increase. With output being larger than sales and inventory remaining high, prices fluctuate greatly. It is one of the basic market principles that price will drop when supply exceeds demand. It is hoped that business leaders and industry elites can coordinate and make collaborative efforts to overcome the difficult time, stabilize the production, and strengthen the confidence in recovery. Page 19 marketing@landglass.com +86-379-80890369 WhatsApp: +8615838533083 Guangjian Building, No.12 Wangcheng Road, Luoyang, China Page 20 AGC Achieve 5G Communication Using Glass Antenna 27.06.2019 views : 2881 Recently, AGC announced that they have achieved what is believed to be the world's first 5G mobile telecommunications using an antenna embedded in synthetic fused silica glass to transmit and receive 28 GHz 5G radio signals for stable, high-speed mobile communication in buildings, vehicles and trains.The antenna embedded in synthetic fused silica glass was used to verify 28 GHz 5G mobile communication with downlink speeds averaging 1.3 Gbps within a 100-meter range. The verification tests, which used a vehicle fitted with multiple antennas and traveling about 30 km/h, were conducted in the Sumida area of Tokyo.5G radio signals in the 28 GHz band are seriously weakened when they pass through car windows to the interior. In addition, radio waves from urban 5G base stations reach the vehicle from various directions. The new AGC glass antennas were therefore used in multiple positions on the test vehicle including the windshield, side windows and rear window. The tests confirmed that these antennas switch seamlessly as the car moves, enabling 5G data to be transmitted and received in ideal directions with maximum signal strength and stability.In addition, these 5G glass antennas are very small and transparent, allowing them to be fitted discreetly, without spoiling the vehicle's appearance or the passengers' line of vision. Page 21 The First Piece of Aviation Windshield Glass Rolled off the Production Line in Changshu, China 25.07.2019 views : 2044 The first piece of civil aviation aircraft windshield glass with independent intellectual property rights rolled off the production line in Changshu, dismantling the international monopoly in China. Recently, the aviation glass project of SYP Glass Group takes up operation in Changshu Economic and Technological Development Zone, filling the gap in domestic aviation glass production technology. After PPG of U.S. and Saint-Gobain of France, SYP Glass Group has become the world's third supplier of aviation glass.Although aviation glass accounts for only a small proportion in the aircraft manufacturing industry, it is one of the key components of the airplane as it relates directly to the safety of the pilots and aircraft. According to the introduction, as a part of the aircraft structure, aviation glass must have sufficient strength to withstand the cabin pressure, aerodynamic loads, loads on airframes, etc. Due to the strict safety performance requirements of aviation glass, complex production process, and high degree of production difficulty, the market of the product has been completely in the control of few well-known foreign glass manufacturers. As Liu Mingqing, Vice President of SYP Glass Group Co., Ltd. and General Manager of Changshu SYP Special Glass Co., Ltd. said, the company had gone through more than 2 years of technical program exploration and R&D, spent 5 months to make targeted modifications on the production line for aviation glass project, and 1 month of commissioning. Changshu SYP Glass overcame all sorts of challenges, realized the localization of aviation glass in the shortestest time with the fastest speed, and successfully produced the aviation glass that far exceeded customers' quality requirements.SYP Glass Group is going to be one of the major sheet glass suppliers for the windshield of Boeing, Airbus, Bombardier, Shanghai C919, and other passenger aircraft. Page 22 The Seventh Session of the Third CAIGA Council Meeting was Held in Wuhan 05.08.2019 views : 2895 On July 4-5, the seventh session of the third CAIGA council meeting (expanded) & the industry economic operation workshop & the promotion and implementation of industrial standards was held in Wuhan. The meeting adopted the Proposal on reappointment of the president of CAIGA, the Proposal on the establishment of the CAIGA organizational restructuring and development committee, and the Proposal on acquisition of office space as registered premises of the association.The general assembly went through the procedures set forth in the articles of association and relevant provisions. After discussion and voting by the Council, Mr. Baiheng Zhang was unanimously elected to be the president of the China Architectural and Industrial Glass Association (CAIGA). Mr. Zhang said that he would remain true to the original passion in the glass industry, keep mission of industrial advancement and development firmly in mind, adhere to the leadership of the Party, abide by the applicable laws, regulations, and the provisions of the association, follow the principle of "Leading, Coordinating and Serving", fulfill his duties and responsibilities, earnestly implement the eight key tasks put forward by President Guoqing Chen in the Council's work report, lead the association to forge ahead, continue the innovation, and work actively, give full play to the role as the bridge and tie between the government and enterprises, promote the industry restructuring, upgrading, and high-quality development, encourage the development of win-win relationship between the member enterprises and the association, and push forward the development of glass industry for achievements and to a new level.At the same time, the standing committee of the vacuum insulated glass professional committee and the standing committee of the machinery and equipment professional committee also attended the meetings. As one of the standing committee units of the vacuum insulated glass professional committee and a deputy director unit of the machinery and equipment professional committee, LandGlass participated in the meetings. Page 23 marketing@landglass.com +86-379-80890369 WhatsApp: +8615838533083 Guangjian Building, No.12 Wangcheng Road, Luoyang, China Page 24 German Scientists Develop the New Technology that Bends Glass Sheets at Right Angles 15.10.2019 views : 3284 Generally, if there is a window goes around the right angle corner of a building, it is made of two individual flat panes of glass that are glued together through a metal rail. Now, German scientists from the Fraunhofer Institute have developed a method to bend a single sheet of glass to a 90° angle without affecting its optical properties.They begin with preheating a flat pane of glass to about 500 °C (932 F) which is just below the glass malleable "transition point". The supports in the oven will prevent the glass from deformations. A mirror-guided laser is then used to heat the glass along a straight line going down the middle of the sheet (softened accordingly) while the rest of the pane remains at 500 °C. When the supports are removed from beneath one side of the pane, gravity makes the sheet to bend along the softened line, naturally going to a 90° angle. Once the glass cools, it becomes rigid again.As of now, the scientists have been able to make panes measuring a maximum of one square meter (10.8 sq ft) in the lab with their current available equipment. However, they are currently looking for commercial partners in order to make larger sheets.It is hoped that the processing technology and the product may find applications not only in architecture, but also in medical field where it could be used to produce gap-free glass surfaces that are resistant to bacterial reproduction. Page 25 marketing@landglass.com +86-379-80890369 WhatsApp: +8615838533083 Guangjian Building, No.12 Wangcheng Road, Luoyang, China Page 26 The 2019 Annual Conference on Glass Science and Technology in China was Held at CAS Institute 08.11.2019 views : 3169 Sponsored by the Glass Branch of the Chinese Silicate Society, Qilu University of Technology and the Institute of Industrial Technology and Information of Building Materials recently hosted the 2019 National Conference on Glass Science and Technology in Jinan, Shandong Province. More than 300 leaders, experts and scholars from societies, research institutes, universities and enterprises attended the annual meeting.Innovation is the No. 1 driving force to lead the development. This annual conference of glass science and technology took "Enhance New Technologies through Innovation, Promote the Industrialization of Results, and Create New Win-win Era for Glass Industry" as the theme and invited many well-known experts and scholars in the industry to make special presentations at the conference to discuss the current industry technology frontier and the latest development trends, the advanced glass technologies in manufacturing, processing, innovative applications as well as the related supporting equipment and products. The annual conference also organized sub-sessions on the themes of "New Glass, New Theories, New Technologies, Glass Baking and Floating Glass Technology" and "New Glass Processing Technology".As a platform for technical cooperation and experience exchange that combines the efforts of enterprises, universities and research institutes, the National Conference on Glass Science and Technology upheld the high standard, high quality, and high level concept. By adhering to the strategic planning for the scientific and technological innovation and development of building materials industry set forth in the "13th Five-Year Plan", the conference presented the latest technologies and development trends in advanced manufacturing, processing and innovative applications in the glass industry. Get a quote & schedule an appointment.With 30+ years in the auto glass industry, we will get you back on the road in no time.Our Price Match Guarantee ensures you get the best price for your auto glass service.We take all insurance. Plus, we manage your insurance claim.No-hassle warranty against glass defects or repairs needed to our original work. This company is awesome. They were kind, understanding, professional and did an amazing job. If you need your windshield replaced or repaired this is the place to go.I was able to schedule service same day and everyone was super polite and thorough. Price was far lower than other local options, and includes a lifetime warranty.Amazing experience! Quick, affordable, and the man that worked at the front so kind, even gave my children snacks as we were waiting and put on a show for them! I am very happy with the service I received at Auto Glass Now. Everyone was very nice and the windshield install was done in a timely manner. A+Absolutely the best! This is the second time I have used this company and they are fast and price is competitive. They will price match!!! Will use them again!!!Fantastic customer service and very quick service! I didn't have an appointment but they fixed my cracked windshield right away. I would recommend this business to anyone....11/10 experience. I had to get my back rear glass replaced and Auto Glass got me in the very next day and replaced it for a great price. The workers there were amazing too!With 30+ years in the auto glass industry, we will get you back on the road in no time.12Get an estimate. We'll help if you want to use insurance.3Schedule your appointment Skip to product information The sample you get: -- Estimate the shipping cost Shopify processes your payment. I don't get access to your credit card details. This glass has thickness of just 50 µm. Its thin profile makes the glass so flexible that it can be rolled up like a film. What is the extremely thin glass used for? The glass is laminated to transparent plastics to produce robust lightweight windows with a scratch-resistant glass surface. The glass can be used as an alternative to plastics for a flexible substrate for OLED lighting and displays. It can also be used to create artistic lamps and interior design products. Details: The flexibility allows the glass to be processed by roll-to-roll manufacturing methods. The glass has excellent gas barrier properties and chemical stability compared with plastic films. Standard thicknesses are 200 µm, 100 µm, and 50 µm. A 30 µm variant is under development. Idea: Use glass-laminated plastic for robust windows for bus shelters, where damage is confined to only the point of impact. It can also be used to add scratch-resistance to curved products without complicated processing. The sample: The sample measures 8 cm x 8 cm and has a thickness of 50 µm. It can be bent to a radius of less than 50 mm. It will break if bent excessively! All samples come with a laminated information card, which includes contact details for the supplier.