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Specially lit display of Allianz Arena logo: LED Blue LED, 40mm lag, 44,100 LED per unit, LED type NSPB 520 S White LED, 25mm lag, Total of 155,400 LEDs per LED 111,300 LED per unit, LED type NSPW 510 BS: Dimming converters can be dimmed through powerful entry of blue and white LED dimmed each logo of lights separately in color Can be (combination with mask) letter profile 4mm thick, technical center of 2mm aluminum thwarted controlled in technical details and painted with double component paint depth of letter: 25 cm, total height of Allianz Arena logo 4m Length: Total weight of 39.83m characters: Supports about 2,500kg To strengthen the zinc-coated construction total weight of steel frame H=3.8m/5m per letter support and steel construction: About 2,750 kg of concrete is used in the stadium: about 120,000 m3 steel is used in the stadium: about 22,000 T Foundation: 180 T, The size of a family home, loading up to 1,500 T350 inclined auxiliary pillars, 50 auxiliary pillars of each level (cross-section: 65 cm, Length: 6 m) in 10,000 kn (~1,000 T) 8 stairs, 15 waterfall stairs at intervals of 45 m the maximum bearing load of the outer façade (under inflated panels): Area: about 12,000 square meters, glazed area: about 5,000 square meters internal façade (Business Club) : Area. About 350 square meters, glazed area approximately 300 square meters Executive Boxes: Area: About 3,000 m2, Glazed area: about 2,000 m 2 level: 2,446 pre-cast element 3,985 ladder element placed on roofs 132,000 drill holes 66,000 seats for esplanade (4 car parks at 4 levels each): frame construction (support Does and beams beams) Floor area area: 270,000 sq m Concrete: 85,000 m Steel: 14,000 T Structural Steel: 1,400 T Promenade (Asphalt Main Connecting Level) Area: 28,000 sq m floor area with 8,50 m roof 1,033 pre-cast section 128 pillars and 88 load bearing points outer circumference: Approximately 1,200 m 2,874 Chemoidal Inflated ETFE foil panels 66,500 square meters ceiling and façade data on ETFE foil as the largest membrane shell (ethylene Tetrafluoro-ethylene) Thickness: 0.2mm Weight: 350 g/min Transverse Detail at 21/21 N/mm² Longitude/Breaking Point: 600/600% UV Circumference: 95% Visual Light Permeability: 93% Color: Transparent (roof area), transparent white (rest mask) 1,380 Non-standard panel: Total area: 7.6 40.7 sq m Length: About 3 to 10 m Maximum width: 1.9 approximately 4.6 m For maximum diagonal length: About 17 m fans keep the panels inflated at constant pressure of 0.035 times (maximum possible pressure 0.08 times) in case of snowfall, 12 pressure-monitoring points ensure the correct pressure adjustment to allow for ice up to 1.6 meters. Age nearly 25 years, non-flammable, exceptionally resistant to heat and cold, rain at 51.41 meters level can be opened with 19 panels to ensure self-clean proper ventilation. Each of these special The panel can carry up to 8T and has air pressure resistance of 22 T panels the installation of new LED lighting on non-loading façade began in October 2014. It took about 100 days to install. The system allianz arena makes Germany's first and Europe's largest stadium with nearby outdoor LED lighting for a dynamic light mood. Out of 2,760 panels, 1,506 light is illuminated when activated. This means that the 26,000 square metre lit external material is visible to fans and passers-by, an area equivalent to three and a half professional football pitches. Instead of just three colors (red, blue and white) produced by the old system, the new lighting system produces 16 million different colors that enable the best color nuances and combinations. Hidden behind highly homogeneous and plastic appearance modification, there are more than 300,000 LED lights on approximately 6,500 Philips ColorGraze lights. Each air cushion has about 285 LEDs mounted on seven to eight lights. A total of 45 tonnes of material has been installed, including lights, several hundred control components (data inible) and more than 5,000 meters of network cables. The total weight is equivalent to more than 100,0 football. Austrian climbers mounted on LED lights and system components at heights of up to 25 meters. The installation was carried out in sections of four rhomboid panels in width for eleven panels in height. 250 lights are delivered every week. Individual components and their growing hardware were assembled at the Allianz Arena, raised to an increasing height and then put in place by mask climbers and networked with surrounding elements. Sometimes achieving the precise alignment of the colorgraz bar on roadboid panels of different sizes was only possible with a specially built, saber-tooth-shaped mounting device. The lights are equipped with special optics and are mounted on the bottom of the panels. The lens is adapted to disperse the light on the surface of the roadboids. The team of modifications included a lighting designer, product and software developers as well as architects, electrical engineers, mask climbers and fitters. The technology used analog technology with previous lighting systems traditional fluorescent lighting. Philips replaced the technology with a completely digital system, which included network digital lights (LEDs) with intelligent control system software. Philips used ColorGraze PowerCore MX4 lights with a range of different optics. When lined they are equivalent to a distance of about 7.5 kilometers. Philips has already fitted more than 200 kilometers of these lights around the world. The AGE of LEDs is about 80,000 hours, equivalent to a period of about 53,000 league matches (excluding overtime). This hugely reduces maintenance costs. New Philips light is 60% more energy efficient than last etc. Every year it saves us about 100,000 kilowatts of electricity and our CO2 usage has been cut by 362 tons. The lighting system is quite strong. It can withstand the most adverse weather conditions with low temperatures at -50 degrees Celsius during the operation, and -80 degrees Celsius when inactive. Philips Colorkinetics are developing systems based on the technology used in the Allianz Arena in architectural landmarks around the world. These include the Empire State Building in New York, the London Eye, the Bosphorus Bridge in Istanbul and the Gateway of India in Mumbai. Digital control and maintenance platform digital control can control more than 300,000 points light in 16 crore colours. Even the finest nuances, intensity and shield are possible. Image repetition rates guarantee fluid moving views of up to 40 frames per second. Philips Facilitates activesite operation as well as system monitoring and maintenance. The cloud-based platform provides a central cockpit for observing core functions. The material management system facilitates the design and control of the material. In addition, it provides comprehensive tools for analysis and maintenance: from hardware management through integrated real-time reports and e-mail notifications for detailed system diagnostics. Lighting concepts Swiss architectural firm Herzog & de Meron developed curatorial concepts for the new lighting. He was also responsible for the architecture of the Allianz Arena. Color dynamics emphasized and woken up to elegance and elegance, in addition to stable light, direct cooperation with football. On non-match days, elegant color dynamics are planned in red, white and blue. To this end, Herzog & de Meron has designed twelve dynamic transition scenarios that can be classified into four categories: form-based waves, pixel-based clouds, column-based gradients as well as line-based rounds. Different lighting scenarios are possible and can be changed depending on the activity in the stadium: non-match evening standard dynamic lighting is planned while the concept of stable lighting is used for home and away and light is a custom design program for special events. The architecture of the Allianz Arena is unique worldwide. Its façade has the world's largest membrane shell. It is about 35 metres high and has an outer surface area of 29,000 square meters. Allianz Arena celebrates its tenth anniversary in 2015. Total area: 38.000 sq m Primary roof structure (60%): 48 radial main beam, about 65 meters long and weighs 106 T Total 5,300 T S355 Steel Secondary Roof Structure (Cross Beam, 40%) A rhomboidal 'steel net' builds within which panels are supported as rectangular tubing 180 mm x 180 mm x 5-16mm Total 3,400 T S355 steel 50 m high free floating construction maximum load bearing tension, its weight of ice in the center plus full weight: KN (-500T) Maximum load bearing tension on edge: 3,300 kn (~300T) deflection under load on edge with full ice load and wind: 55cm roof panels in a transparent internal surface retractable internal roof (using blinds and props) opened and 51 electric sizes Motors have been closed by: 68 m x 105 m net and 72 m x 111 m gross - Total height: 8,000 square meters - Pitch: 0.5% tilt towards middle natural grass: about 650 rolls 1.20 m x 10 m; 38 mm disode; 800 kg per piece of lawn building area: 4,500 m antifreeze gravel was piled up to flatten the base of the area: 10cm drainage layer (sand) - heating pipe - 13cm lower turf support layer - 9cm upper turf support layer drainage: 14 drainage pipes every 111 m, Hoses 3.2cm height and 27 km length: heating 100mm diameter, 2 km length, 3 insulated pipes attached to a distributor, temperature can be controlled manually and automatically (35 to maximum 50 degrees Celsius), 1 bar pressure arched zinc galvanized steel construction operation: toggle lever mechanism - opening journey: 2,300 mm in 11 second width on pitch: 2.50 m height on pitch: 2.10 m 'Dead man handle' warning warning and extra in additional tunnel in players : Emergency exit (swing door) and buffers dressing room: 65.5 sq m Massage room: 40.5 sq m Medical Treatment Room: 21 sq m Equipment Room: 4.7 sq m Bath: 2.08 m x 5.16 m x 1 m warm-up area: approx. 110 m2 Showers: 22 sq m Coach Dressing Room: 40 square meters number of lockers: 22 Number of rain: 12 106 boxes of different sizes (up to 32 seats; up to 1374 seats in total) television coverage of fan-TV up-to-date match figures for every sports arena data (e.g. lawn temperature etc.). Seats for wireless and telephone access press (lower level) and 350 press clubs in 5 TV-media field wireless and phone access during studio (including mixed zone and tunnel) in Bundesliga-match-located press World Cup 2006 at 176 seats (table), 98 (no table) and 90 commentator seats at: 1,000 (table), 1,000 in lower level (table no); 600 commentator seats (catering, goods, museums and parking) mobile payments in upper tier cashless payments in all regions, Debit/Credit card and ArenaCard (closed card system) cash payments only made possible in stores by payment, museum and selected catering areas more than 350 tills on site: 259 in catering areas (Esplanade including 12 in mobile stores on) 48 in merchandise areas (including six in mobile stores on the Esplanade) for ticket sales in 5 tills to topping arenacard 31 tills within the Allianz Arena for ticket sales, for topping The Ercard on the 6 million arenacards distributed since opening in 2005, including season tickets and recognitions. Double safety feeds linked to various access points (general access plus back-up access) network availability 99.99% (FIFA requirement) = 52 minutes downtime/year a network for all services (telephone, server, video etc.) in 6,0 ports Redundant (high gain) cabling triple structure (primary, secondary and tertiary) all services on a cabling, Fixed cabling everywhere using up to 99.99% (FIFA requirement) in two distribution areas (both duplicate) north and west of arena networks = 6 minutes downtime/permanent cabling in two distributor areas via all services via year cable (with AL back-up) competing networks available at Arena East and West services Spree: IP telephony ticket counter system and cashless system stadium access and ticketing car parking video and home technology with almost total WiFi coverage standards for box holders and third parties with almost total WiFi coverage A/b/g first stadium 980 hotspots with 5G mobile technology with WLAN Stadium infrastructure. 80,000 visitors can access the service simultaneously and for free. Centered behind each target, tilting 10 degrees forward, 40° rear 126 120x120cm module + 18 120x80cm module Total: 144 LED front modules per wall, 5500 CD/M2 Viewing Angle: Horizontal 140°, Vertical 120° Internal 16 bit Color Depth Total Weight 18 Ton Main Screen: 198.72 m2 (21.6 x 9.20 m = 198.72 Meter 2) Rear screen: 36.8m2 (9.20 x 4.00 m) Pixel Pitch: 6mm (first 25 mm) Technology: S MDD Resolution: 32 40 x 1380 Total pixels: 4,471,200 (first 147,456) System: Digital network signal processor remote controlled and monitor high power amplifier specially manufactured electro - Voice loudspeaker system loudspeakers mounted in color 42 meters matching steel frames in 24 loudspeaker groups, 72 sub woofers including 6 speakers per cluster and 10 further individually mounted units 154 units each group weighs 17 operator around the group - Remote amplifier (electro-voice) total amplifier output in 14 switch cabinets in the roof of the stadium: approximately 158,000 W individual climate control, monitoring and enhancement protection in all cabinets 7 technical control centers in each cabinet have automatic fire extinguisher system promatrix system control technology from dynamism high-powered amplifiers with total output of arox. Level 7 at 129,000 W main control center, 21 control center station 21 control center station multiple redundancy connected to a fiber optic network 296 LED high brightness floodlights at an altitude of 45 meters: FC Bayern partner Phillips' technique. Total power: 435,416 watts; 1,471 watts (163,483 l'm) per spotlight illumination: 2,500 lux (before 1,400 lux) light output of construction (brightness) is equivalent to CA's effort. The overall performance of 121,064 40-watt light bulb flood lighting is equivalent to an attempt of CA. 10,895 40-watt light bulb with 10 cross beams catwalk + additional 8 under the roof with integrated entertainment power. Available power: 12 MW from two different sub-stations Additional battery storage power and data distribution for all security, sound and control systems: nearly 4,000,000 cable switching shelves: about 750 meters total gathered in about 68,000 light units Environment and Security Main System: Forward Approximately 20,000 Centrally Controlled Data Points (Nodes) Number of Ventilation Units: 110 Air Replacement in Car Park: 5.4 million meters/km in the stadium 1.7 million) HKLS Control: Control Center Monitoring 7,000 Data Points by Cooling Capacity: 1,000 PKW Air Conditioning Systems Provided by Heating Capacity 3.2 MW: 5.2 MW. I.e. as much as 500 family houses 35,000 m C-steel duct (DN 350) 3,600 m Nero ducts 36,000 m additional cast, composite, synthetic and other ducts. 100,000 m square sheet drain 10,000 m round sheet drain 22,000 sprinklers 300 dry/wet risers 4,600 fire detectors approx. 35,0 Linear Fire Detector Alarm System: 6,200 Loudspeakers Access System: 110 Roam. Fixed and Mobile Card Reader Monitoring System: 90 Recording Cameras Provide Court-Acceptable Footage Data Transport: Nearly 800,0 m Fiber Optic Cable Parking spaces for 130 disabled people are located at Level 3 of P Garage 1. (Public streets are signed approaching P1) and these parking spaces are closest to the arena. From this point wheelchair users can have uninterrupted access to their viewing positions with wheelchair users allowing relevant organizers to access the stairs disabled for TK 2 and TK 3 (access via S0/S1). Lifts available here for Promenade Level 2. Special buses available for return journey. People with severe disabilities are transferred to the elevator at level 0 (carrying them to their seats) by special purpose vehicles. Whether a disabled person ID is enough

and whether disabled people can park free of charge has yet to be resolved there is also a seamless route from the underground station to the arena. A shuttle service from fröttmaning underground station to the stadium will not be in place at the start of the season in August 2005. About 400 better seats have been allocated to about 200 wheelchair users and their peers on the long sides of the arena on the top rows of the lower level, allowing room for wheelchair maneuvers. The entire level 2 can also be declared a barrier-less for people with disabilities. At this stage include kiosks, support services for people with disabilities and specially equipped toilets. Specially reserved lifts are available to change levels in the north and south since the introduction of mobile headsets with 2005/2006 Bundesliga weather comments playing for blind individuals 20 pairs of subtitle glasses are available to people with impaired hearing. A specially developed smartphone app uses Bluetooth to transmit stadium commentary to augmented reality glasses as live subtitles. The text appears in the lower view area of the glasses. The Allianz Arena has more than 25 disabled toilets, including 16 on Level 2 and a toilet for the severely disabled, equipped with a special weightlifter. Disabled tours for individual visitors start at 14.00 (2 p.m.) And Sunday when there is no match. Seven public entry areas at Level 2, six of them for home fans (four in the South Stand and two in the North Stand) plus a far entrance with their car park. There are also various hospitality and accreditation gateways. Altogether 207 readers have been built in (contactless thanks to state-of-the-art chip technology), including 159 roaming and 11 gates for disabled access, plus 40 card readers using 55 mobile scanners in cocos to use controls to either print tickets (QR codes or barcodes) or chip technology (smartphones, By) by Chip's card) the following forms are currently used: chip cards for weather ticket holders and accredited media print@home NFC (Apple) or QR code hard tickets (classic paper tickets) in 38 ticket offices (32 service areas south of the arena, four in the north and two at the far entrance) Mobile@Tickets through the entrance)

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