

Chapter 1 : National Geographic Channel MegaStructures Reviews - Metacritic

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Superhuman feats of modern engineering from around the world. Panama Canal we meet the mother of all mega-movers. Every year this strategic waterway lifts 14, ships over the equivalent of a nine-storey mountain range. Relying on some of the mightiest machines and feats of engineering in the world, the demands for its services are high, and now there are plans afoot for an even bigger, better canal. At the heart of the project is the enormous gas-processing platform, the Independence Hub. If successful the system will produce enough gas to supply nearly 5 million households in the US. After two years of constant grind, "Jaws" has bored a tunnel over twenty-five feet in diameter nearly nine miles through basalt. This tunnel is the linchpin of a massive Hydro-Electric project that plans to use the melt water from a massive glacier to make electricity. One of the biggest challenges is steering this monster machine in a straight line, so that after nine miles eighty-eight yards it hits target dead centre. Will "Jaws" Breakthrough or bust? By , Britain will be connected to Norway via a 1, km super pipeline. Yet all of the work must be completed by robots working 3 km under the North Sea against harsh underwater currents, sub-zero temperatures and abysmal wind and wave conditions. They span acres of land and consume enough electricity to power small towns. Megafactories are some of the most unique production facilities on Earth. Then to Ohio and Texas, to see how tanks can be stripped down and rebuilt from the ground up, rather than built from new. In combat they are weapons capable of destroying targets two miles away. Finally, Apache Helicopters are perhaps the most lethal attack helicopters in the world. We visit the Boeing plant in Arizona, to see how sophisticated military technology is helping to make sure that the Apache pilots make it back home. Take an eye-popping look at the greatest structures and machines ever created. The Harley-Davidson is an American icon. We go behind the scenes at the Harley-Davidson HQ to discover how this particular mega factory is able to rev up 50 new Harleys every single hour, and get an inside peek at the process to create the controversial newly designed V-Rod. We also visit the John Deere factory, which covers more than , square metres, houses more than employees and 49 robotic welders. Find out how all these elements combine to help stamp, press, cut and weld 60, tons of steel into the John Deere STS Combine " a harvesting mega-machine. Finally we travel to the Peterbilt factory where workers are busy building Model trucks, made to pull vehicles weighing up to 36 tonnes. Follow the entire construction process from its slow and steady start to its dramatic and heart-racing finish. Overlooking the course is a 1. Hoover Dam Bridge To save one of the most iconic engineering wonders of all time requires the creation of another masterpiece: Ecoark The Eco Ark pavilion is hailed as a new benchmark for the future of green buildings and a spectacular showpiece. Supertanker This Megastructures episode is all about how to build a giant Supertanker that carries LNG Liquid Natural Gas, a cleaner fossil fuel becoming more and more important as the world searches for alternative energy sources. At Samsung Heavy Industries giant shipyard we see how new boat being built transforms from single plates of raw steel to a 76, ton Supertanker in just two short years. Well focus on the extraordinary safety measures required to build her, and see how this giant of the sea protects its volatile cargo from explosions or even terrorist attacks. Watch as the finished ship sets sail taking its place as one of the worlds most advanced Supertankers, a Megastructure of the sea. Millau Bridge Opened in December , the Millau Bridge in southern France is the tallest in the world, reaching 1, ft. It is one of the strongest materials on earth. It has changed the course of history and altered human civilization. From the soaring skylines in a vast metropolis, to dinner tables across the world and razor sharp tools responsible for medical miracles: Steel will bring viewers face to face with steel and the innovations this material has given birth to. Our cameras will go inside the mills and also visit such historic steel structures as the Brooklyn Bridge, the Empire State Building, and the Gateway Arch. The Venetian, built by the Las Vegas Sands Corporation, features a giant hotel with suites, a 15, seat arena, a theatre, event halls, shops along indoor canals metres long, an outdoor lagoon for gondola rides, and above all, a huge casino floor the size of seven

football fields. World Record Cruise Ship Megastructures: It is the most widely used building material on earth. It was a building block of the Roman Empire and is a material of choice for a new generation of gravity-defying skyscrapers. From the sidewalks of New York to the fast-growing Burj Dubai, slated to be the worlds tallest building when it is completed in , concrete continues to be a crucial tool of engineers and architects alike. They are an essential building block of civilization. They are one of the worlds first building materials and today they continue to create structures that amaze us. From paving our driveways to lining our fireplaces and chimneys, brick is part of our daily lives. But when thousands or millions of these simple blocks are stacked together, people have changed the course of history. Brick will bring viewers through the process that takes a lump of clay, forms it into a simple block, and then uses fire to transform it into a rock hard building material. Panama Canal Lifting a mind-blowing 14, ships a year over a nine-story mountain range, the Panama Canal relies on some of the mightiest machines in the world: This is one of the trickiest waterways in the world, but thousands of ships risk it every year to deliver their goods faster. This tunnel is the linchpin of a massive Hydro-Electric project that plans to use the melt water from a massive glacier make electricity. Apart from sheer size, the ship is a high tech vessel for the 21st century, and presents features that have never been seen on a ship before. Deep Sea Drillers In an attempt to tap some of the most inaccessible natural gas on the planet, five high-tech mega vessels will complete a 1, square mile gas network, over a mile and a half below the oceans surface. Money Factory One hundred billion dollars in bullion. Monster money-making machines, impenetrable subterranean vaults. An army of protectors. Explore the heart of "In God We Trust," the elaborate systems of design and protection at the US Treasury premier currency manufacturer and her sister operation, the Bureau of Engraving and Printing. Join us as we unlock the secrets inside the steel vaults. Queen Mary 2 Megastructures will take you on a voyage through the largest ocean liner ever built, from the cutting of the first steel panel to the installation of the iconic red and black funnel of this million dollar giant of the seas. Get inside these superstructures and uncover the cogs, gears, bells, and whistles that make them work. And learn about all the stops and starts that went into creating these engineering triumphs. Rising out of the sea like a proud ship at sail, the Burj pushes the boundaries of engineering to the limit. How does a bold young design team that has never built anything taller than 16 stories tackle building the tallest and most luxurious hotel in the world? To start, the team creates an artificial island metres off the coast of Dubai. Engineers utilize ground-breaking concrete blocks to reduce wave impact and prevent water from flooding. Bridge Breakdown A young demolition team must lower a historic bridge to recycle 25, tons of steel, concrete, and rebar, all while testing their limits, fighting the elements, and racing against a ticking clock. Witness each step as they carefully drain toxic fluids, carve out the pricey partsâ€”from landing gear and flight controls to engines and pumpsâ€”and then slice up the airframe.

Chapter 2 : About Megastructures Show - National Geographic Channel - Canada

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July 6, The Sidewalk Vault: Subterranean Menace or Hidden Asset? A recent article by a fellow practitioner paints the sidewalk vaults of New York City as lurking hazards lying in wait, ready to swallow up unsuspecting cars or pedestrians. We exaggerate, but only slightly. In reality, partial or total vault collapses are a rare occurrence. What is a Sidewalk Vault? Today, sidewalk vaults are used to store items for residents, equipment for the building, or are simply ignored. Typically the vault sits below a four-inch thick concrete wearing slab the sidewalk, a waterproofing membrane sometimes, and a structural slab masonry arch, reinforced concrete, metal deck, or some combination. The supporting structure generally comprises a steel beam and column framework, with concrete or masonry exterior walls. Sidewalk vault cross section. From top down, topping slab gray concrete, vault masonry arch red bricks, and frame steel beam. Vault Failure As with any component of the building envelope, water is the enemy. Once water finds its way into the vault, either through the topping slab, waterproofing membrane, or major surface joints, the supporting steel framework is vulnerable to corrosion and deterioration. Left unchecked for a long period, portions of the frame could ultimately fail. A prudent maintenance program will arrest deterioration well in advance of failure. Conduct a detailed visual inspection of the vault, inside and outside of the building line. We physically probe portions of the steel beams and columns, to identify locations where repair or replacement is required. At first glance, rusted steel often looks worse than it really is, because rust can expand up to eight times the volume of the steel from which it originated. Once the rust is removed and the underlying steel measured, the remaining cross section is often minimally reduced from the original. Survey the existing flashing configuration and slope of the topping slab to ensure water is directed away from the building and its cellar. Test the integrity of the existing waterproofing membrane if any. Test for the presence of hazardous materials such as asbestos. Photographically document the work throughout the process. Steel beam on left is significantly corroded and may need to be replaced or reinforced. Once our initial assessment is complete, we formulate appropriate solutions and discuss them with the client. Some vaults present unique challenges that require us to combine our knowledge of fundamental principles with our extensive building envelope restoration experience. After a restoration solution is agreed upon, construction documents are prepared. As is typical with our documents, we are meticulous about the details – making clear to the contractor the materials and configuration that constitute the finished product. After walk-throughs, bid submissions and interviews, the winning bidder is selected. Once the vault structure is restored, the topping slab is poured, followed by replacement of all traffic signs, handicap ramps, etc. Sidewalk expansion joints are installed, sealed and leveled in accordance with Department of Transportation code. New steel deck and rebar, awaiting concrete pour, will become the structural slab that forms the vault ceiling. Restoration in Phases If there are any mission critical spaces i. Hidden Upside As a restoration project progresses, clients often discover practical new uses for a safe and dry vault. One residential building client decided to house additional electrical equipment in the vault. Another client turned the previously unused vault space into a bicycle storage room, which now generates income for the building. Once we were able to stop the persistent leaks in the vault of a major university, they used the space to house sensitive electronic lab testing equipment. So our vote – a well maintained vault is not a liability, but an asset, hiding in plain sight.

Chapter 3 : Sidewalk Vault | Restoration | Building Envelope | SUPERSTRUCTURES

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Chapter 6 : Megastructures - National Geographic Channel - India

MegaStructures is a new series that takes an eye-popping look at the greatest structures and machines ever created. Get inside these superstructures and uncover the cogs, gears, bells, and whistles that make them work.

Chapter 7 : National Geographic Channel MegaStructures - Season 2 Reviews - Metacritic

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Chapter 8 : National Geographic Channel MegaStructures - Show News, Reviews, Recaps and Photos - b

Get an inside look at the planning and engineering behind creating some of the greatest buildings and machines ever made. 'MegaStructures' takes you inside the superstructures and all the.

Chapter 9 : Countdown to Collision : Programs : Discovery Channel : Discovery Press Web

Superstructures. [Philip Brooks] -- Text and detailed illustrations explore and explain the architectural styles, building methods, materials, and technologies used throughout history to build structures such as the pyramids of Egypt.