

# BHNAPlus

Country Corporate Magazine of Lafarge Iraq

No: 5 - January 2017



Lafarge Iraq supplies high quality construction materials for major projects in Basra



National Cement Conference: 4 main issues should be solved to maintain the cement industry's development



 A member of  
**LafargeHolcim**



## 5 reasons why LafargeHolcim should be your building materials supplier in Iraq

1. Our standard and special concrete products including: Artevia Coloured Concrete, Ultra High Strength Concrete and Hydromedia Flow concrete to name just a few, offer you a wide range of design and structural solutions.
2. Our five cement products; Al-Gesr, Karasta, Mateen, Oilwell and OPC, cover all your construction application needs.
3. We offer country-wide expert technical support and a 24/7 customer service line.
4. We offer solutions for all kinds of customers' and end-users' needs.
5. We offer the expertise of the world's largest building materials group, LafargeHolcim.

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I wish all of our employees, business partners and their families a happy new year that brings peace, welfare, and prosperity to Iraq and the region.



Rachid Benyakhlef - Country CEO Lafarge Iraq

Dear colleagues and friends,

It goes without saying that the past three years have been a very difficult period for Iraq in general and the construction sector in particular. In welcoming 2017, the economic and social instability caused by security and logistics challenges remain a major hindering factor for the industry. The cement industry also continues to face the following main challenges, as discussed during the National Cement Conference in Sulaymaniyah:

**1. Supply-demand imbalance:** To better plan today's actions, it is crucial to assess the future evolution of the cement market. Cement capacities are increasing significantly due to the investment of the private sector in the industry, as well as government initiatives to lease state-owned cement plants to private sector actors investing heavily in the rehabilitation of these plants. Projections show the cement industry heading towards a major imbalance of supply and demand. The overcapacity is predicted to be 7MT in 2017 and 8MT in 2020, raising major concerns and meaning that cement plants will generally run with a low utilization rate. When combined with a low market price resulting from increased competition, this will lead to more companies facing increased financial difficulties – a fact we are already witnessing on the ground. Moreover, this means that Iraq as a country is overspending in cement capacity and leading to high spillage, while money could better be directed towards sectors that are in more dire need of resources and investment.

**2. Unfair competition:** The cement industry in Iraq has long been suffering from the unfair competitive advantages of its neighboring countries, which are highly subsidizing energy, namely fuel and power, for their cement producers. While the central government recently passed a local production protection law, the same law has not yet been implemented in the Kurdistan region, thus increasing the pressure on local cement producers.

**3. Unavailability of power and fuel:** With increase in capacity comes the challenge of supplying power and fuel. In mid and southern Iraq, barely any plants are being fed by the electricity grid. They are instead being forced to build or maintain very costly captive power plants. In the north, the grid is no longer sufficient to supply energy to all of the plants, which in 2016 faced over 20 days of full stoppage due to power cuts. Regarding fuel, it appears that local refineries are proving unable to cope with the growing demand of HFO from the increasing number of cement plants, and that some of the plants have been forced to occasionally cease production due to the lack of HFO – a concerning limitation factor that must be fixed as soon as possible.

**4. High cost of production:** The high cost of production locally compared to the cost of production in neighboring countries is a major concern for cement producers. The cement industry is a heavy industry that requires long-term work, and is thus in need of stability – especially in the cost of main production factors.

Solving these four main challenges will undoubtedly guarantee the healthy and sustainable development of our industry and its ability to provide high-level services to Iraq's construction sector. We genuinely believe that the Iraqi federal government and KRG will take these points into consideration to save the future of the national cement industry and the numerous businesses that rely on our industry.

Despite all of these challenges, we at Lafarge Iraq exerted our best efforts in 2016 to achieve our objectives. In 2016, our cement plants in the north operated with high rates of utilization and reliability. We succeeded in supplying – on-time and in full – top-level cement to our customers. The comprehensive rehabilitation project in the Karbala Cement Plant was completed in 2016, resulting in the reintegration of this important industrial facility into the national cement sector – an achievement that we are very proud of.

Our concrete operations in mid and southern Iraq are getting more involved in large-scale projects initiated mainly by international contractors in the regions of Baghdad, Basra, and Karbala. We envision the continuity of this trend in 2017.

We initiated the countrywide project “Customer First” to direct our operations and organizational structure towards a more customer and end-user based organization.

We are proud of our highly-skilled local teams that distinguish us from others and guarantee the high-quality of our organizational and operational capacities.



I wish all of our employees, business partners and their families a happy new year that brings peace, welfare, and prosperity to Iraq and the region.

We hope that you enjoy this issue of our magazine and are looking forward to the new issue in 2017.

## Health & Safety is a common value for Lafarge Iraq and its business partners



From left: Barzan Agha - Country Purchasing Director, Faraydoon Mustafa - Architect Company, Abedrahman Naghawi-Country H&S Manager, Dr. Ranjdar Akram - Medical Doctor of Bazian Cement Plant

**Architect Company is the latest example of how Lafarge Iraq rewards its business partners for implementing its health & safety standards**

**Could you please give a brief overview of yourself and your company?**

My name is Faraidoon Mustafa. I am currently working as an authorized person for the engineering company Architect Company, which has been operating for 12 years. On February 15, 2015, I joined the Bazian Cement Company BCC. I now have 89 workers under my direct supervision for cleaning offices and industrial spaces.

**Today you received a letter of acknowledgment from Lafarge, could you please explain the purpose of this letter?**

BCC has requirements that seek to improve our work, and that we try to achieve to the best of our ability. For example, the Lafarge health department requests that we conduct medical examinations for our workers. We met the requirements of this request, conducting the examinations shortly after receiving the request, not in order to be rewarded, but rather for our own benefit. We are grateful to Dr. Ranjdar for appreciating our work and rewarding our company, and there is a plan to have an awards ceremony on 20/10. We thank all of them.

**Could you please explain the reason behind choosing Lafarge as an employer?**

I will answer in two parts. First, as I explained previously, I joined Lafarge through the company. I had no experience, but gained experience gradually. Second, I am familiar with the work system in Lafarge. I myself prefer this system because I worked in Germany for 21 years with a similar system. I am quite comfortable with working with this system, which I learned a lot about while abroad and continue to learn here. I am pleased that it is being implemented in my country.

There is no doubt that I benefit a lot from this system. The system that was applied there and way of thinking here, in Lafarge, is similar, with great facilitation found in both. I believe that it should be applied in many other places in order to improve every aspect of our country. I learned very much and was able to enhance my relationships. As a contractor, I can add value and contribute to progress. Whereas in other countries workers have many options, workers in our country are restricted. Despite this, this company provides workers with opportunities to learn new things. I also enjoy my job and find the work to be very interesting. On one hand, workers earn money for their families, and on the other hand, they work as a team for the plant under my supervision. In summary, there are many mutual benefits:

- They work for their own families
- The company benefits from their work
- They work for me as a contractor

I am also a hard worker and enjoy being physically present in the site, which allows me to be close and supervise work directly. I often pay visits to the worksite so that I can be close and aware of the status of work.

I would like to reiterate that I am a serious person. While this may sound odd in our country, many plants have asked me to work for them at night, but I refused. Because they lack a safety system, their work is not secure. In this way, I am a serious hard worker that believes in the quality and not quantity of work.

This is why I like to be frequently present in the worksite, even if this bothers some people – just kidding! I love my job.

I would like to thank both Mr. Barzan and Mr. Nazim who provide me with support.



## LAFARGE IRAQ SUPPLIES HIGH QUALITY CONSTRUCTION MATERIALS FOR MAJOR PROJECTS IN BASRA

**Lafarge Iraq is becoming increasingly involved in large-scale construction projects in the mid and southern regions of Iraq**

Basra is one of the main regions in Iraq in which Lafarge Iraq has recently received greater visibility. In addition to many residential projects, several large-scale construction projects have chosen Lafarge to be their cement and concrete provider. The main projects include the Siba Petroleum Gas Plant, the Hyundai Car Showroom, and the Mabroka Cement Plant.



According to Ali Said, General Manager of Lafarge Concrete Operations in mid and southern Iraq, Lafarge Iraq is the preferred supplier for such important projects primarily given their worldwide knowhow and experience as part of LafargeHolcim, the largest industrial group in the world. Said finds that because of the priority project owners place on receiving high-quality products and services, as well as excellent technical support whenever needed, Lafarge – with its numerous strengths and benefits – is the preferred provider.

Lafarge Concrete Plant Manager in Basra, Moayad Kadhim, underlined for us the importance of such large-scale projects for both the country and the region. According to Kadhim, the Siba Petroleum Gas Plant, for example, is one of the most important infrastructure investments in Iraq. It will provide petroleum gas – a highly-efficient, low-cost and low-pollution emission alternative energy source to fuel



oil. These special kinds of projects requires specific types of construction materials and a certain type and quality of concrete that not all suppliers in the country are able to provide, added Muayad. Due to the significant oil and gas projects and general infrastructure investments in Basra, the province is a very important market for Lafarge. “The RMX team and the Senior Construction Expert are preparing a specialized presentation for the South Oil Company management team with focus on their construction challenges and Lafarge’s solutions for high-durability, anti-corrosion and water-resistant concrete. We are proud of being a part of this development process and Basra will continue to have a special focus in 2017,” said Ali Said, General Manager of Lafarge Concrete in mid and southern Iraq.





**Muayad Kadhim - Civil Engineer**  
**RMX Plant Manager - Basra**

**"In my view, the product and service quality is the most important aspect that differentiates Lafarge from the others. "**

I graduated from Basra University in 2005 with a degree in civil engineering. Since graduating, I have worked as a location manager and executive engineer for various Iraqi companies. Before joining Lafarge, I was promoted to project manager and successfully executed several projects. During my time with the South Oil Company (SOC), I worked on constructing roads for the Al-Hammar Gas Station, as well as a paving project that consisted of a service road for a strategic pipeline to transport oil. I have worked on other projects with the Iraqi B.B. Company.

In 2011, I joined Lafarge Iraq as a sales engineer. In early 2014 and after spending three years in this

role, I became the plant manager of the RMX Plant in Basra. I have now successfully settled into my new position.

In addition to our RMX plant in Hamdan, we recently launched a second RMX batching plant for the construction of an industrial plant in Khor Al-Zubair.

We cover the majority of the Basra area, with the exception of some areas that are over 50 km. away, such as Um Qasr, because they are too far from us; however, we are now able to serve some of these areas from our second plant. We have the ambition to reach any area that has a demand for Lafarge products. We will be present wherever we are needed.

In the past, I worked as a civil engineer for several different companies. Having tested concrete quality on many different occasions, I would say that the concrete produced by Lafarge is distinguished by its high quality. In my view, the product and service quality is the most important aspect that differentiates Lafarge from the others.

Construction companies and engineering bureaus that prioritize product and service quality for their projects prefer to work with us. However, there do exist others that seek the lowest prices and choose the cheapest option in the market without taking the quality of the product into consideration. We are keen on gaining our customers' trust – a point that we consider to be our top priority. We are punctual in the services we provide. After meeting with a customer, we pay careful attention to the time factor when supplying them with our products.

For example, we have supplied many strategic projects in the Basra governorate, including a building with 11 floors, which was a strategic move

for enhancing our reputation in the region. We recently became one of the construction material providers for the Petrojet – Siba Gas project – one of most prestigious projects in the region. Although there are ordinary customers who fail to differentiate between us and other companies because of their lack of experience with concrete, we are on our way to gaining the trust of those customers as well.

As of July 2015, Lafarge Iraq became part of LafargeHolcim, the largest industrial group in the world. I am very proud of being a part of the worldwide leader in our industry. Our group is the only international group operating in our industry in Iraq, transferring its worldwide knowhow to the country – a fact that our clients are increasingly

noticing. We hope that our visibility in this respect will soon increase in mid and southern Iraq.

My advice to the engineers, especially to each new engineer that intends to work with Lafarge, is to be diligent and work on themselves. This organization supports its employees, and I advise them to take advantage of the experience they receive from the work and consult the older staff who have more experience. I discover new things about concrete every day, especially given the fact that we are in Basra, where the weather is hot and we have many customers and projects, with each project demanding different types of concrete.



**Abbas Mahmood - Chemical Engineer**  
**CRO – Karbala Cement Plant**

**"Lafarge encourages new employees and supports them with internal and external training programs to create a clear career path for them"**

In 2013, I graduated from the College of Engineering in Al-Muthanna University with a degree in chemistry and good marks. While the university is in the Al-Samawa province, I was born and raised in Karbala. After graduation, I joined the KIA Motors Company as a 'Diagnosis OBD and OBD2 Trouble Codes detector,' then before joining Lafarge, worked at the Copperchase company in the Najaf International Airport.

I joined the Karbala Cement Plant in January 2015 as a control room operator in the production section to run the kiln & raw mills. My friend, who at the time was working in the Karbala Cement Plant, suggested that I send in my resume. After being invited to the plant, I thankfully passed my interviews with the plant and production managers. I feel very lucky to have joined Lafarge because it truly encourages new employees and supports them with internal and external training programs to create a clear career path for them. Lafarge enhances their employees' confidence by strengthening communication between employees and their managers, and turning them into decision-makers. Lafarge's focus on investing in its people is what distinguishes them from other companies.

Lafarge is an international company, building a clear path for each employee by personalizing individual objectives and designing the best way to achieve these objectives. The company communicates to us our current and future development needs, and regularly updates and reviews our progress. They encourage all employees to practice Lafarge's core values every day and reward us for doing so. Lafarge's priority is taking care of the safety of all workers and providing us with a healthy work environment.



**Mehmet ISIK / Lafarge Concrete North  
Erbil Area Manager**

**“While there are obviously certain challenges that are specific to the country of operation, doing the same job in a different environment with different challenges brings valuable experience.”**

After graduating as a geology engineer from Çukurova University in Adana, Turkey, I worked in mining operations before joining Lafarge Turkey as a quality control responsibility officer in 1994. I worked at Lafarge Turkey Concrete BU for 15 years, managing different operating regions. In 2009, when Lafarge left Turkey, I worked for the Oyak Group, which had acquired Lafarge’s former operations. In early 2015, I joined Lafarge Group again in their Iraq operations. I am now responsible for quality control management and other operations in the Erbil area.

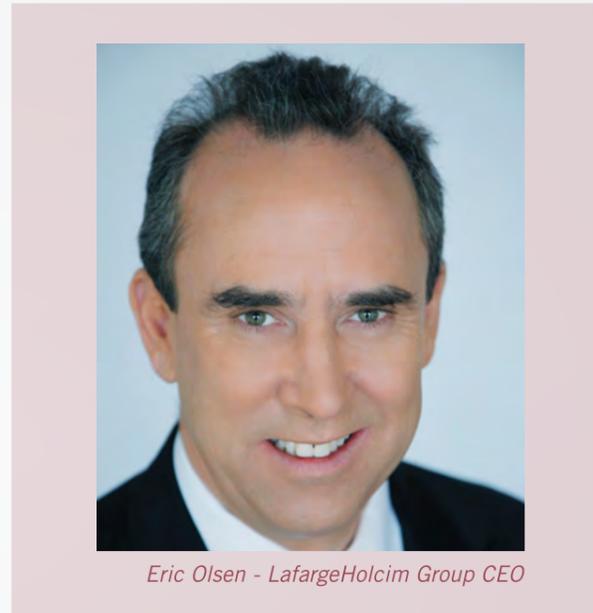
Having professional experience outside of your home country is always a plus, even if it is with the same organization and same job. While certain challenges arise due to country-specific matters, doing the same job in a different environment with different challenges brings valuable experience. I have quite a rich professional background and am pleased to have the opportunity to share this knowledge and experience with my younger colleagues here in Iraq. Although I do wish that I had been working here during the good times,

when the market was very buoyant, I am familiar with the current difficulties because of my previous experience in Turkey. The cultural and geographical similarity between the region of Kurdistan in Iraq and Turkey, as well as the close support of my local colleagues, has made the experience here much more enjoyable for me. Most importantly, it has also been a learning process.

The merger of the Lafarge and Holcim groups in July 2015 was a major step in the history of our sector. I consider health & safety, quality, and customer orientation, among others, to be the common fundamental working principles of these two groups. The merger was thus a success in my view, despite the current financial and operational challenges resulting from the general context of the world. The reality is that we are going through a very tough period of time in the region and in Iraq; however, there are promising developments and I genuinely believe that the process of rebuilding our region and country will soon begin.

As a part of LafargeHolcim, Lafarge Iraq is already recognized as a reputable and reliable solution partner in Iraq’s construction industry. I am proud to be part of this group and this team.

**LafargeHolcim CEO's message**



*Eric Olsen - LafargeHolcim Group CEO*

**Dear colleagues, happy New Year!**

**Happy 2017! I hope you've had a chance over the last couple of weeks to spend some time with family and friends and to recharge your batteries. I'm delighted to have this opportunity to share some thoughts with you as we get ready for a successful 2017.**

Let's start with Health & Safety. In 2016, many people lost their lives as a result of our operations. And frankly, any life lost as a result of our operations is too many. Each one these lives lost is a human tragedy affecting the person’s family, their friends and generations to come. And when I look in detail, which I do, at each one of these incidents, what I see all too often is that basic rules and standards weren’t followed. People died as a result of not getting the basics right. And we can do better. My biggest wish is that nobody loses their life as a result of our operations in 2017.

2017 is going to be a year of opportunity, performance and transformation for us at LafargeHolcim. As you know, over the last 18 months, we’ve built the foundations of a great company. We have world class R and D capabilities, we have a tremendous industrial heritage and unparalleled industrial capabilities to build on. We have world leading brands and technical solutions for our customers. And we have the best and highly skilled employees in the industry working to serve customers every day.

As you know in September we launched the ACE program. A critical piece of the ACE program was of course the commercial transformation in driving the way we sell and offer solutions to our customers. We also focused on the way we work together. Now in ACE, we actually named the program around the three elements through which we want to improve the way we work together: A for agility, C for collaboration and E for empowerment. ACE.

You know one of my favorite things to do as CEO is to travel throughout the Group and exchange with you all. Having town hall meetings, individual meetings and listening. I can tell you it is where I get my energy from, it is where I get ideas and it helps me do my job better.

So I invite you to join me on Connect to start a conversation around our transformation and I'd like to hear from you, what you're doing in your area to transform LafargeHolcim. So I'll close there and I close with the best wishes for a successful and a healthy and safe 2017. And I look forward to many exchanges with you over the year. Thank you.

# Airium™

## a revolution in insulation

Airium™, an innovative new product from LafargeHolcim, is a disruptive technology in the insulation market. Developed and patented by LafargeHolcim's global R&D center near Lyon, France, Airium™ is a mineral insulating foam that improves energy efficiency for buildings, from floor to ceiling.

Airium™ addresses the energy efficiency challenges facing society today as well as the needs of construction professionals and homeowners:

- Entirely mineral based and thereby healthier
- Offers maximum fire resistance
- Exhibits excellent durability, as it does not shrink over time (up to 100 years)
- 100% recyclable with a low CO2 impact
- Easy to use



Between 30% and 40% of global energy consumption is used for heating and cooling buildings. LafargeHolcim is targeting the thermal insulation market with this new solution, which can be reduced by installing stable and durable insulation. Airium™ will target the thermal insulation market and will start with Austria, France and Morocco.

The development of Airium™ is in line with the commitment of LafargeHolcim's 2030 Plan to generate one third of its revenue from a portfolio of products and services with enhanced sustainability performance. LafargeHolcim is committed to delivering energy savings and offering healthy and sustainable construction solutions for occupants.



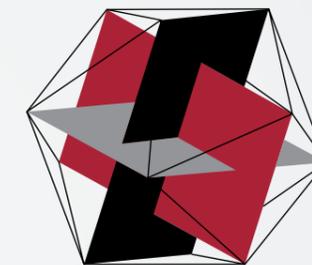
Airium™ offers numerous possibilities for use as insulation and is being launched for the filling of concrete blocks in France and Austria and roof terraces in Morocco. Insulating concrete blocks with Airium™ makes it possible to build and insulate at the same time, thus saving construction time and increasing available living spaces for occupants.

Airium™ will soon be available in other markets, notably North America and additional European and North African countries.

With the launch of Airium™, "LafargeHolcim once again demonstrates its ability to rethink construction practices in order to continue delivering innovation," says Gérard Kuperfarb, Group Head of Growth & Innovation at LafargeHolcim. He adds that, "This product truly represents a new concept for insulation. Healthier, safer and simpler to work with, Airium™ is an energy-efficient insulation for buildings, in keeping with LafargeHolcim's commitment to offering sustainable, high-performance construction solutions."



## LafargeHolcim Awards Announcement



## LafargeHolcim Awards

5th International LafargeHolcim Awards seeks smart solutions for cities and the built environment

Two million dollar sustainable construction competition open

The LafargeHolcim Awards is the most significant global competition in sustainable design. It seeks leading projects of professionals as well as bold ideas from the Next Generation that combine sustainable construction solutions with architectural excellence. Organized by the LafargeHolcim Foundation for Sustainable Construction, the competition identifies the ideas with the highest potential to tackle today's challenges to increasing urbanization and to improve quality of life. Projects and concepts from the fields of architecture, landscape architecture, urban design, planning, technology, and civil and materials engineering are eligible to be entered online in the USD 2 million Awards competition; it closes for submissions on March 21, 2017.



The competition's main category is open to architects, planners, engineers, students of related disciplines, project owners, builders and construction firms that showcase sustainable responses to technological, environmental, socioeconomic and cultural issues within contemporary building and construction. Projects must have reached an advanced stage of design, have a high probability of execution, and may not have started construction before July 4, 2016. Participants up to the age of 30 years of age can also submit visionary concepts and bold ideas in the competition, irrespective of the probability of actual implementation of the project: the Next Generation category specifically seeks "blue-sky" solutions by students and young professionals. The competition is divided in five geographic regions – each with its own jury of renowned specialists. Projects are evaluated according to the region in which they are to be built, and are measured against the five "target issues" for sustainable construction which look at a project from a holistic perspective and take its entire lifecycle into account. The criteria cover innovation and transferability; ethical standards and social inclusion; resource and environmental performance; economic viability and compatibility; and, contextual and aesthetic impact. The juries are headed by Harry Gugger (for region Europe), Ray Cole (North America), Angelo Bucci (Latin America), Nagwa Sherif (Middle East Africa) and Donald Bates (Asia Pacific). The winners will be announced at a series of five consecutive Awards ceremonies in the second half of 2017. Winners automatically qualify for the global Awards competition in 2018. Entry in the competition is free and must be made in English using a web-based form to provide information on authorship, a project summary, technical details, as well as project images or illustrations. A comprehensive "Step-by-step" guide explains the evaluation criteria in detail and gives instructions on how to prepare an entry at [www.lafargeholcim-awards.org](http://www.lafargeholcim-awards.org).

#### Media contact

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[www.lafargeholcim-foundation.org](http://www.lafargeholcim-foundation.org)

#### Support by world-renowned technical universities

The LafargeHolcim Awards is conducted in partnership with some of the world's leading technical universities. The Swiss Federal Institute of Technology (ETH Zurich and EPFL Lausanne) leads the Academic Committee of the LafargeHolcim Foundation. Other affiliated universities are: American University of Beirut (AUB), Lebanon; American University of Cairo (AUC), Egypt; Ecole Supérieure d'Architecture de Casablanca (EAC), Morocco; Indian Institute of Technology (IIT Bombay) in Mumbai, India; Massachusetts Institute of Technology (MIT) in Cambridge, USA; Tongji University (TJU) in Shanghai, China; Tsinghua University (THU) in Beijing, China; Universidad Iberoamericana (IBERO) in Mexico City, Mexico; Universidade de São Paulo (USP), Brazil; University of British Columbia, Vancouver, Canada; University of Melbourne, Australia; and University of the Witwatersrand (Wits) in Johannesburg, South Africa.

#### LafargeHolcim Foundation for Sustainable Construction

Since 2003 the Foundation advances the discourse on sustainable construction through its international Awards competitions, academic Forums and publications. The Foundation is supported by LafargeHolcim, the world leader in the building materials industry, but remains independent of commercial interests.

#### Useful Links

- Access the Awards entry form 2016/17: [www.lafargeholcim-awards.org/enter](http://www.lafargeholcim-awards.org/enter)
- Download Step-by-step guides on how to enter a project: [www.lafargeholcim-awards.org/guide](http://www.lafargeholcim-awards.org/guide)
- Full list of jury members at: [www.lafargeholcim-awards.org/juries](http://www.lafargeholcim-awards.org/juries)
- Details on "target issues" for sustainable construction: [www.lafargeholcim-awards.org/target](http://www.lafargeholcim-awards.org/target)
- Browse through more than 200 previous LafargeHolcim Awards prize winning projects at: [www.lafargeholcim-foundation.org/projects](http://www.lafargeholcim-foundation.org/projects)

## LafargeHolcim Awards

### Quick Guide for the submission of Awards entries

#### WHAT PROJECTS CAN BE SUBMITTED?

The 5<sup>th</sup> International LafargeHolcim Awards celebrates projects and visions that contribute to a more sustainable built environment and features total prize money of USD 2 million. The competition is open for projects in architecture, building and civil engineering, landscape and urban design, materials, products and construction technologies that contribute to the five "target issues" for sustainable construction:

[www.lafargeholcim-awards.org/target](http://www.lafargeholcim-awards.org/target)

#### LafargeHolcim Awards (main category):

- Project has reached an advanced stage of design with high probability of execution
- Execution of the project may not have started before July 4, 2016
- All authors must be at least 18 years of age (date of birth March 21, 1999 or earlier)

#### Next Generation (young professionals and students category):

- Visionary projects and bold ideas
- All authors must be between 18 and 30 years of age (date of birth between July 5, 1985 and March 21, 1999)
- Execution of the project (if applicable) may not have started before July 4, 2016

#### HOW TO ENTER THE COMPETITION?

##### Process

- Entries must be in English using the web-based form [www.lafargeholcim-awards.org/enter](http://www.lafargeholcim-awards.org/enter)
- Registration deadline: March 21, 2017 at 14:00 hrs (UTC)

#### Key requirements

- Author and contact details of all team members
- Technical details: location, dimensions, materials, costs and other key data
- Project summary: background and project concept (text up to 800 characters)
- Statements on sustainability: response to the "target issues" for sustainable construction (3 statements up to 800 characters each)
- 5-10 project images (high resolution image files with captions)
- Image of author/team (high resolution image file with caption)

#### Step-by-step guide

- Comprehensive manual explaining all steps and requirements of the entry process at: [www.lafargeholcim-awards.org/guide](http://www.lafargeholcim-awards.org/guide)

#### HOW ARE WINNERS SELECTED?

##### Competition regions

Projects are evaluated and awarded according to their location in five geographical areas: Europe, North America, Latin America, Middle East Africa, and Asia Pacific.

##### Juries

In each region, a jury of independent experts is hosted by an internationally renowned technical university and evaluates all submissions: [www.lafargeholcim-awards.org/juries](http://www.lafargeholcim-awards.org/juries)

##### Prize money

Prize money totals USD 2 million per competition cycle. The prize money for each of the five regional competitions is USD 330,000, including USD 70,000 for Next Generation prizes.

Awards, Acknowledgement and Next Generation prizes will be handed over at events within the regions of Europe, North America, Latin America, Middle East Africa and Asia Pacific between September and November 2017. The prize money of the Global LafargeHolcim Awards in 2018 is USD 350,000. Winners are selected from the winning projects of the regional competitions in 2017.

## Concrete Pavements

A versatile, strong, and durable solution that meets the needs of agencies/owners and the demands of people who rely on America's surface transportation system.

Whether you're planning new construction, reconstruction, pavement preservation, or pavement repair and rehabilitation, concrete pavements are the right choice.

Since the first strip of concrete pavement was completed in 1893, concrete has been used extensively for paving highways and airports as well as business and residential streets. There are four types of concrete pavement:



- Plain pavement with dowels that use dowels to provide load transfer and prevent faulting;
- Plain pavements without dowels, in which aggregate interlock transfers loads across joints and prevents faulting;
- Conventionally reinforced pavements that contain steel reinforcement and use dowels in contraction joints;
- Continuously reinforced pavements that have no contraction joints and are reinforced with continuous longitudinal steel.

Information Sources:

<http://www.cement.org/cement-concrete-basics/products/concrete-pavement>

<http://www.acpa.org/concretepavements/constructionstrategies/>

### REWARD QUIZ

Can you guess when and where the world's first concrete highway was built?

- |                   |                  |
|-------------------|------------------|
| a) 1893 – Germany | b) 1896 – UK     |
| c) 1909 – USA     | d) 1911 – France |

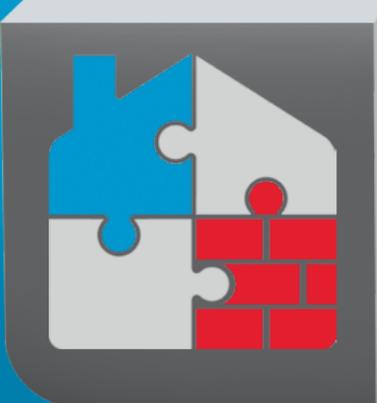
# Opening Binastore Tasluja

More Space

More Products

Expert Engineers





For all building materials

# BINA

store

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www.binastore.com

Sulaymaniyah - Tasluja - Opposite to Traffic Police Directorate

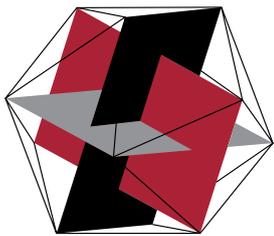


“The LafargeHolcim Awards have not only brought awareness, but have also raised the standard for how we deal with sustainability.”

Alejandro Aravena, Partner Architect at Elemental, Chile.  
LafargeHolcim Foundation Board member since 2013.  
Pritzker Prize laureate 2016.

## 5<sup>th</sup> International LafargeHolcim Awards for sustainable construction projects. Prize money totals USD 2 million.

Competition open  
from July 4, 2016  
to March 21, 2017



**LafargeHolcimAwards**

[www.lafargeholcim-awards.org](http://www.lafargeholcim-awards.org)

Renowned technical universities lead the independent juries in five regions of the world. They evaluate projects at an advanced stage of design against the “target issues” for sustainable construction and allocate additional prizes for visionary ideas of young professionals and students. Find out more at [www.lafargeholcim-awards.org](http://www.lafargeholcim-awards.org)

The LafargeHolcim Awards is an initiative of the LafargeHolcim Foundation for Sustainable Construction and is supported by LafargeHolcim, the world leader in the building materials industry. The Group has a well-balanced presence in 90 countries.



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