Dow Building Solutions
Leading the Way in Energy Efficiency

Styrofoam™ Case Study
and Project Reference

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About Energy Efficiency in China

In a context of growing concern over energy shortage, Chinese government has set goals to foster energy efficiency within the booming construction sector. The target is by 2010 all new buildings in China have to cut their energy consumption by 50%, with large cities by 65%.

- By achieving the energy saving goal, China can save 110 million tons of coal from 2006-2010

- The cost for energy efficiency will not raise house price

China’s key priorities on Energy Efficiency are: ensuring energy supply reliability, managing the environmental impact mainly by coal, reducing environmental damage and increasing the efficiency of energy use.

Efficient use of energy is critical to fulfill the projected economic growth in China!

Since traditional building practices often overlook the interrelations between a building, its components, its surroundings and its occupants, buildings consume a lot more resources than necessary and negatively impact the environment locally and globally. Compared to conventional buildings, energy efficient buildings can achieve a customized reduction in energy consumption and create a healthy and comfortable environment for residents.

Roofing 15%

Window and door occupied 25%

Wall 50%

Flooring 10%

Sketch map of energy loss ratio in a building

How to reduce the energy loss in a building? The “Tried and True” approaches are:

- **Increase the insulation for the building envelop.** The potential components for insulation upgrade include walls, roofs, basement foundations, basements floors and frame floors. DO IT RIGHT THE FIRST TIME!

- **Reduce air infiltration.** Air infiltration is very costly. Continuous insulation, housewrap, polyurethane sealants and adhesives are products you can use to minimize the costly air infiltrations.

- **Increase the thermal resistance of windows and doors.** Do not let these “open” areas to compromise the total thermal performance.

- **Increase the efficiency of your heating and cooling equipment.** High efficiency equipment will bring energy savings given the above three points are well managed.

In the way of exploring sustainable solutions for energy efficiency construction, Dow Building Solutions plays the leading and exploring role in the industry, combined with global experience and local knowledge, we create the positive changes for today, and make great efforts for future forever avail!
About Dow Building Solutions

Dow Chemical is committed to contributing to China’s construction market success. On May 12, 2007, Dow, Berkeley National Laboratory and Chinese Energy Research Institute (ERI) partner to improve energy efficiency and reduce energy intensity in China, to reduce energy consumption per unit of gross domestic product (GDP) by 20% by 2010 upon 2005.

For more than 60 years, Dow Building Solutions has been the recognized global leader in extruded polystyrene insulation. Since developing STYROFOAM™, the original extruded polystyrene insulation, we have continued to build on our foam expertise and technical strengths to provide products and solutions that meet our customer’s needs in the building industry.

Today, leveraging the strengths of The Dow Chemical Company as a leading global supplier of chemical and plastic products, Dow Building Solutions offers an extensive line of science-based building envelope solutions. Dow Building Solutions, through these efforts, intends to help you improve the comfort and energy efficiency of your buildings.

Worldwide, STYROFOAM™ extruded polystyrene insulation from Dow Building Solutions, with its distinctive Blue™ color, is the most widely used extruded polystyrene foam insulation in residential, commercial and industrial buildings - for both new construction and retrofit applications! Built on a commitment to its principles of sustainability, Dow continues development in China!
# Energy Efficiency Case Study Summary by Dow Building Solutions (DBS)

Here we introduced some insulation case studies in China projects, intend to help you improve the comfort and energy efficiency of your buildings!

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<th>Insulation Case Study</th>
<th>Customers’ Needs</th>
<th>DBS’ Solution - Styrofoam™ Strength</th>
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</table>
| **Developer**     | Prosperous Qiantang,  | • Good quality EIFS system  
                     Hangzhou            | • Excellent flexibility  
                                  • High compressive strength  
                                  • Good dimension stability  
                                  • Planed surface with good bonding performance |
| **System Provider** | Zhongxin the 5th    | • Quality products and solutions delivering energy saving  
                      Block, Shanghai          | • Good construction insulation performance  
                                  • Reduce crack and damage in exterior wall caused by huge temperature change, extend the usage life of the building  
                                  • Eliminate cold bridge, reduce condensation in the wall, decrease humidity to avoid mould |
| **Owner**         | China Film Production Base, Beijing | • Create a healthy and comfortable environment for residents  
                                 | Styrofoam™ shows its Superior quality in technical tests. The owner paid close attention to quality, as China Group Film Production Base represents the international image. Finally the owner chose Styrofoam XPS |
| **Architect**     | China Export/Import Commodity Fair Pazhou Hall Phase II, Guangzhou | • Superior quality  
                                 | • Excellent moisture resistance and stable long-term R-value  
                                 | • Protects membrane against weathering, physical abuse and damage  
                                 | • Maintains membrane at a constant temperature, minimizing effects of freeze-thaw cycling  
                                 | • High compressive strength, allowing access of high loads, such as traffic and vehicles |
| **MOC**           | New Riverside Garden Phase I, Shenyang | • Set up standard codes of XPS to regulate the market  
                                 | • Styrofoam was invented by Dow 60 years ago  
                                 | • Superior product quality and service  
                                 | • Advanced technology, innovative solutions  
                                 | • Testimonial projects in China and global  
                                 | • Full compliance with worldwide codes and local regulations  
                                 | • Strength in R&D, training and problem solving, backed by technology expertise |

**MOC:** Ministry of Construction, here we refer to Shenyang Wall Insulation Office
**Developers’ Concern**

Developers increasingly understand and appreciate the fact that energy-efficient buildings are highly competitive with regard to the rising number of residents demanding high-quality buildings and a growing environmental awareness of consumers.
Prosperous Qiantang, Hangzhou

Customer Needs on Wall Insulation
(from the view of developer):
• Good quality EIFS system
• Environmental protection
• Advanced Installation technology

"Since this is the model project of energy efficiency in Hangzhou. Our target is to achieve 60% energy saving, though national standard in Hangzhou is 50%. We adopted the worldwide first class and quality products, Styrofoam™ from Dow Building Solutions (DBS) meets our wall insulation requirements." said the developer.

Styrofoam™ Strength
• Excellent flexibility
• High compressive strength
• Good dimension stability
• Planed surface with good bonding performance

"Styrofoam™ from Dow Building Solutions is CFC free, environmental friendly. This is also one of the reasons why we used Styrofoam XPS. To our satisfied after on-site test, we got the test report of national center for quality supervision and test of building engineering certified that our buildings achieved national standard on building energy efficiency!" said the developer.

Project Background

Project Name : Prosperous Qiantang, Hangzhou
Developer : Yitian Real Estate
System Provider : Hangzhou Green Home Engineering Co., Ltd.
DBS Product : Styrofoam™ LB 25mm, around 90,000 sqm

Project Profile
• The project consists of 7 buildings, 33 floors
• The tallest residential building with brick surface and EIFS in Zhejiang province
• China MOC Residential Energy Efficiency model project
Zhongxin the 5th Block, Shanghai

Customer Needs on Reliable Partner

- Quality products and solutions delivering energy saving
- Meeting high-standard in quality control
- Reliable well-tested system with proven application in China and globally
- Full compliance with national codes and local regulations
- Bringing technology expertise
- Promotion of energy management

Styrofoam™ Strength

- Good construction insulation performance
- Reduce crack and damage in exterior wall caused by huge temperature change, extend the usage life of the building
- Eliminate cold bridge, reduce condensation in the wall, decrease humidity to avoid mould

“We are proud to cooperate with one of the global Fortune 500 companies – Dow Chemical on XPS to construct energy efficiency buildings. Due to use Styrofoam™, our XPS test report on Heat – Cold cycle meet national standard. Dow Building Solutions assures the product quality and advanced technology.” said G.M. Wang of Full Color.

Project Background

Project Name : Zhongxin the 5th Block, Shanghai
Developer : Zhongxin Group
System Provider : Shanghai Full Color Construction Material Co., Ltd.
DBS Product : Styrofoam™ LB 25mm, around 40,000 sqm
Project Profile : The project consists of 10 buildings, 18 floors, brick surface

System Providers’ Concern

In the field of energy-efficient construction, professional handling of materials and professional application is essential. Badly applied insulation on outer walls, for example, can lead to cold bridges. As these areas will be colder than the rest there is a big risk of condensation and mould, leading to health problems and premature decay of building components. The replacement of damaged components and structures of buildings of course results in very high costs.
China Film Production Base, Beijing

Customer Needs on Wall Insulation

- Create a healthy and comfortable environment for residents
- Superior quality of wall insulation material, and assure the quality after completion of the project
- Like to know more comparative data such as compressive strength and test methods
- Products supply in time
- Lower operational and maintenance costs in the long run

Why choose Styrofoam™ as wall insulation material?

"Styrofoam™ shows its Superior quality in technical tests. We pay close attention to quality, because the China Group Film Production Base represents the international image. Finally we chose Styrofoam XPS." said Mr. Yu of China Film Group.

Project Background:

- The project is the largest and most advanced film production base in the country. The total construction area is 1,190 thousand square meters, covering 34 hektares.
- There are altogether 34 buildings, including 16 studios.
- Adopted Styrofoam™ 70mm XPS, about 80,000 sqm.
- Supposed to be completed in June, 2008 and is one of the most important visiting sights during Olympics.
- Location: Yangsong town, Huairou District, Beijing.

Owners' Concern:

With the insulation making up about small percentage of the overall cost of a standard wall, improving the K-values (thermal transmission) only results in minor additional costs. Better insulation pays off in 3-6 years with a guaranteed durability of 25-30 years, during which further maintenance is not required.
**Architect’s Concern**

Architects care about owners’ requirements, they’d like to introduce high quality and technology products in the projects, but sometimes, have to leverage with the limited budget, the products with high performance vs price ratio are important to them.
China Export/Import Commodity Fair Pazhou Hall Phase II, Guangzhou

Customer Needs on Roofing
(from the view of architect):
• Superior quality
• Water resistance
• Material meets building codes and energy efficiency requirements
• Drawing details and technical reference

Styrofoam™ for USD Strength
(up-side-down roofing)
• Excellent moisture resistance and stable long-term R-value
• Protects membrane against weathering, physical abuse and damage
• Maintains membrane at a constant temperature, minimizing effects of freeze-thaw cycling
• High compressive strength, allowing access of high loads, such as traffic and vehicles

“Since the project is the 1st class convention center in Guangzhou, the owner required all the material will be the best brand and quality, and to meet energy efficiency requirements, also we’d like to introduce the advanced technology during construction. We consider Styrofoam from Dow as it is the big brand in the world and the quality is guaranteed.” said Ms. Lin, the architect.

Project Background

Project Name: China Export/Import Commodity Fair Pazhou Hall Phase II, Guangzhou
Developer: China Foreign Trade Center
Architect: Design Institute of South China Science and Technology University
General Contractor: No. 1 Municipal Construction Company, Guangzhou
DBS Product: DM-Plus 600x2500x25mm, around 60,000 sqm

Project Profile
• The 1st class convention center in Guangzhou
• Adopted advanced technology of Upside Down Roofing
MOC’s Concern:
Effective implementation of the policies in daily production and construction is crucial in China. A number of policies and standards concerning energy efficiency are in place, but their application is lagging, efforts should be put on to achieve the energy efficiency target by 2010.
New Riverside Garden Phase I, Shenyang

Customer Needs on XPS
(from the view of MOC):
• Set up standard codes of XPS to regulate the market
• Safety of the system, especially for the tall buildings
• Project reference
• System technology training to developers and design institutes to enhance energy efficiency

Styrofoam™ Strength:
• Styrofoam was invented by Dow 60 years ago
• Superior product quality and service
• Advanced technology, innovative solutions
• Testimonial projects in China and global
• Full compliance with worldwide codes and local regulations
• Strength in R&D, training and problem solving, backed by technology expertise

“The index of energy efficiency standard used in Shenyang area was set up based on comparisons of walls, built of bricks in 1981 and 1982. The heat consumption at that time was 31 kilograms of coal per square meter. The energy-saving target of 65% currently implemented is thus constituted in line with the heat consumption rate. Effective implementation of the policies in daily production and construction is crucial. A number of policies and standards concerning energy efficiency are in place, but their application is lagging, we shall put efforts on this and also we’d like to cooperate with the world Fortune 500 companies like Dow to promote the energy efficiency solutions in the industry.” said Mr. Wang, officer of Shenyang MOC.

Project Background
Project Name : New Riverside Garden Phase I, Shenyang
Developer : Shenyang Huaxin International and HK Lianmei Properties Co., Ltd
System Provider : DMT Building Material Co., Ltd.
DBS Product : Styrofoam™ LB 50mm and 60mm, around 80,000 sqm

Project Profile
The project consists of 4 phases, all adopted Styrofoam EIFS. Phase I had 31 buildings, 5-9 floors, brick surface, finished in July, 2004. It won “Silver” award of model project in Northeast 3 provinces and 4 cities.
### DBS Project Reference List (Part)

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<th>Location</th>
<th>Insulation Product</th>
<th>Area (m²) or (m³)</th>
<th>Surface or Application</th>
<th>Installation time</th>
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<td>Huayi Plant</td>
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<td>New Time Fujia Garden</td>
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<td>Shanghai Pudong Wa'ge'qiao X6 Road Public House</td>
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<td>Ningbo Bridwood City Phase I, II</td>
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<td>50,000m³</td>
<td>Brick</td>
<td>2006.3~2006.11</td>
</tr>
<tr>
<td>48</td>
<td>Ningbo Weike Watershore Garden</td>
<td>Ningbo</td>
<td>Styrofoam</td>
<td>50,000m³</td>
<td>Brick</td>
<td>2006.11~2007.1</td>
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<tr>
<td>49</td>
<td>Quzhou Jindu West River Moon</td>
<td>Quzhou</td>
<td>Styrofoam</td>
<td>43,000m³</td>
<td>Brick</td>
<td>2006.9~2007.1</td>
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<td>50</td>
<td>Suzhou Jia’dudi Garden</td>
<td>Suzhou</td>
<td>Styrofoam</td>
<td>8,000m³</td>
<td>Brick</td>
<td>2004.12~2005.03</td>
</tr>
<tr>
<td>51</td>
<td>Kunshan Greenland International Garden</td>
<td>Kunshan</td>
<td>Styrofoam</td>
<td>20,000m³</td>
<td>Brick</td>
<td>2006.4~2007.1</td>
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<td>52</td>
<td>Nanjing Fanye Garden</td>
<td>Nanjing</td>
<td>Styrofoam</td>
<td>2,000m³</td>
<td>Brick</td>
<td>2003.2~2003.12</td>
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<td>53</td>
<td>Nanjing Xianglong Apartment</td>
<td>Nanjing</td>
<td>Styrofoam</td>
<td>4,600m³</td>
<td>Coating</td>
<td>2004.3~2004.12</td>
</tr>
<tr>
<td>54</td>
<td>Qingdao Navy Marine Officer Apartment</td>
<td>Qingdao</td>
<td>Styrofoam</td>
<td>3,000m³</td>
<td>Coating</td>
<td>2003.3~2003.10</td>
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<tr>
<td>55</td>
<td>Xi’an Spaceflight Technology No. 11 Institute</td>
<td>Xi’an</td>
<td>Styrofoam</td>
<td>20,000m³</td>
<td>Brick</td>
<td>2004.3~2005.1</td>
</tr>
<tr>
<td>56</td>
<td>Lanzhou Railway Group General Building</td>
<td>Lanzhou</td>
<td>Styrofoam</td>
<td>30,000m³</td>
<td>Coating, Brick</td>
<td>2003.7~2003.12</td>
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<td>57</td>
<td>Shenyang New World Garden Block D, E</td>
<td>Shenyang</td>
<td>Styrofoam 60mm</td>
<td>Block D: D-FPS-93,000m² US Roofing-95,000m²</td>
<td>Coating, Brick</td>
<td>2004.8~2005.1</td>
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<td>58</td>
<td>Shenyang Shanghai Garden Pujiang District</td>
<td>Shenyang</td>
<td>Styrofoam 40mm, 60mm</td>
<td>93,000m³</td>
<td>Brick</td>
<td>2007.1~2007.3</td>
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<td>59</td>
<td>New Riversides Garden Phase I-V</td>
<td>Shenyang</td>
<td>Styrofoam 50mm, 60mm</td>
<td>260,000m³</td>
<td>Brick</td>
<td>2004.7, 2005.12, 2006.7</td>
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<td>60</td>
<td>Wenhui Zun Di</td>
<td>Shenyang</td>
<td>Styrofoam</td>
<td>11,000m³</td>
<td>Brick</td>
<td>2002.12</td>
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<td>61</td>
<td>Mandarin Garden</td>
<td>Shenyang</td>
<td>Styrofoam 30mm, 50mm</td>
<td>54,000m³</td>
<td>Coating, USD Roofing</td>
<td>2007.1~2007.8</td>
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<td>62</td>
<td>Yunhe International Plaza</td>
<td>Shenyang</td>
<td>Styrofoam 50mm</td>
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<td>Coating</td>
<td>2006.10</td>
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<td>63</td>
<td>Shenyang Rancho Santa Fe Villa</td>
<td>Shenyang</td>
<td>Styrofoam 100mm</td>
<td>21,000m³</td>
<td>Stone</td>
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</tr>
<tr>
<td>64</td>
<td>Sunshine Fashion City</td>
<td>Shenyang</td>
<td>Styrofoam 50mm, 60mm</td>
<td>5,000m³</td>
<td>Brick</td>
<td>2006.10</td>
</tr>
<tr>
<td>65</td>
<td>Crystal City Club</td>
<td>Shenyang</td>
<td>Styrofoam 60mm</td>
<td>3,000m³</td>
<td>Brick</td>
<td>2007.7~2007.8</td>
</tr>
<tr>
<td>66</td>
<td>MGM Macau Casino</td>
<td>Macau</td>
<td>Roofmate BS/50mm</td>
<td>32,000m³</td>
<td></td>
<td>2006.10</td>
</tr>
</tbody>
</table>
For further information, call:

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