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BUILDER

MAGAZINE

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INSIDE THIS ISSUE

News:

- BIM for Site Managers
- MOOC
- CITB Levy Rate 2018-2020

Regulations:

- NHBC Standard 2017- Render
- Home Sprinklers Initiative

Educations:

- TICA Cards Scheme
- Appointing Structural Engineer

Estimation:

- External Wall Insulation System

ISSUE EXTRA

The Guide to



IBBTherm
External Wall Insulation System

EXTERNAL WALL INSULATION AND RENDER SYSTEM



Polish Building Wholesale

PROUDLY PRESENTS

BUSINESS AWARDS

IBB Polish Building Wholesale professional approach and commitment in the construction industry has been recognised on many occasions. **IBB team** and our hard work were rewarded with below trophies.

We are committed to the business excellence, and we are working hard on constant improvement of our services and relationship with customers. Moreover, we are focused on innovation and sustainability, and our carefully selected portfolio of products gives our customers the guarantee of the best solutions and value for money. Within the range of products, **IBB Therm** is our own professional External Wall Insulation and Render System. What's more, we acknowledge the

digitalisation of the construction industry and provide estimating tool **IBB Estimator** for fast and accurate costs analysis. On top of that, **IBB Builder** our monthly magazine is a source of advice and important news for all engaged in the building industry. We recognise the importance of women in the construction sector and our excellent team can be a role model.

Finally, IBB actively supports others in achieving their best potential too- our sponsorship in volleyball lead the **IBB Polonia London VC** to become **THE CHAMPIONS OF ENGLAND** second time in a row, while **IBB Polonia London FC** is successfully coaching young football players.

Jacek Ambrozy, the director of IBB, with passion and commitment is leading the company, setting goals and creating tools to achieve success. The collaborative work of all our hard working colleagues shows that not only we are doing well but that we are amongst leaders.

Thank you to all our Customers and Partners for trust and loyalty.

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5. Construction Material Supplier of the Year 2017
6. 2016's Most Innovative Business
7. 2017's Cooperation Award from KUBALA
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FROM EDITOR

Dear Readers

First off, I would like to announce the big news. Recently we have done a survey amongst our loyal readers and customers about the magazine, and we took all answers on board. You told us you want more and from the next month IBB Builder will be issued in the form of blog posts and newsletters. Subscribe to receive IBB Builder straight to your inbox or follow our Facebook and Twitter updates.

Coming back to our current issue, it is all about IBB Therm- our own brand of professional External Insulation and Render System. The construction industry is constantly seeking innovation to create better build environment, more sustainable and energy efficient. Our products within the IBB Therm system are carefully selected and highly professional, currently in the process of BBA accreditation and fully certified by ETA. IBB Therm offers exceptional quality and value for money. We will be promoting IBB Therm system during London Build 2017 and UK Construction Week. I hope our guide to IBB Therm will be a good source of knowledge for you. For your quotation reference, we included also cost estimation done with IBB Estimator app.

What's more about rendering, from mid June CSCS cards for thermal insulation operatives will be issued by TICA. Read about the application process, various cards and where to apply. Also, NHBC issued new technical guidance highlighting best practice for the application of render which came into force on 1st January 2017. Summary inside.

The tragic Grenfell Tower fire last month brought attention to the fire safety and building regulations. We are not speculating as the



inquiry will attempt to answer questions on what caused such a devastating fire spread, but we have included the insight into the fire sprinklers system, which in our opinion should be installed in all high-rise buildings. Better build environment means better living conditions plus higher safety standards and following the Grenfell Tower disaster the industry has to carefully analyse what should be done to avoid similar disasters in the future.

Good news for all interested in skills upgrading. BRE Academy and CITB launched a new online training course BIM for Site Managers. If you want a solid foundation in Building Information Modelling, you should enrol now. Moreover, we highly recommend taking part in MOOC course by CIOB Academy on ethics and compliance. It starts on 5th June, don't miss it!

Enjoy the issue and feel free to get in touch via Facebook or Email.

Magdalena Rosół
Editor

08 CONSTRUCTION NEWS
CIOB's Commission of Past Presidents
Skills shortages
BIM for site managers
CITB levy rate for 2018-2020
MOOC
Brickie visa

16 BUILDING REGULATIONS
Home Fire Sprinklers Initiative

20 BUILDING REGULATIONS
NHBC Standards 2017 - RENDER

22 BUILDER EDUCATION
TICA Skill Card Scheme

24 BUILDER EDUCATION
Appointing a Structural Engineer

29 CONSTRUCTION TECHNOLOGIES
External Wall Insulation & Render System

45 ESTIMATION
External Wall Insulation & Render System

50 FOOTBALL

52 IBB POLONIA LONDON FC

57 IBB MONTHLY DEALS



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Innovative

External Wall Insulation & Render System

CIOB's Commission of Past Presidents

The Chartered Institute of Building (CIOB) has announced the formation of a Commission of Past Presidents to investigate the issue of build quality in the construction industry, and what needs to be done to address it.

The creation of the council comes on the back of the report into the defects that led to the closure of 17 schools in Edinburgh earlier this year and the recent tragic events at Grenfell Tower in London.

The Commission will consider what steps the CIOB needs to take to tackle the already identified issues around management and supervision, the importance for an education framework, and whether there are further steps the industry can take to contribute to improving build quality.

Chair of the Commission, Immediate CIOB Past President Paul Nash, said: "The recent tragic events at Grenfell Tower have further underlined the need for an urgent review of the way in which quality is managed

in our industry. Whilst aspects of the public inquiry must necessarily focus on the issues of regulation and inspection, I think we have to look beyond this at the behaviours that have led to a lack of focus on quality at all stages of the build process, from design and procurement through to construction and re-fit.

"The CIOB has a duty to respond to this issue,

acting in the public interest. As professionals we have a duty to the industry and wider society to act responsibly and ethically. This defines what it means to be a professional. And we all have a responsibility for the reputation of our industry and, most importantly, the wellbeing of those who use the buildings that we create." (Source: CIOB)



BOOK REVIEW

Construction Executives Guide to Brand Marketing: Tools of the Trade – July 10, 2014

by **Perryn Olson CCMP**

New position on construction marketing tools. Great explanation of how integrated brand marketing can grow profits, increase client retention and decrease employee turnover. Learn about marketing strategies, how to promote brand, communicate busi-

ness strengths and win contracts. All these information will definitely helps you plan marketing strategy for your construction business. In current competitive market this is a valuable knowledge. Easy to read construction marketing knowhow. Worth your attention.



Skills shortages

According to the survey of 357 contractors undertaken in March 2017 by the specialist insurer ECIC together with Construction Enquirer, there is skills gap and the increasing reliance on sub-contractors. It is revealed that 78% of contractors are impacted by skills shortages and 56% plan to increase use of subcontractors to help fill the gap. The survey shows that the apprenticeship initiatives are working and a third of the contractors surveyed intend to take on more apprentices in the next year.

In its survey, ECIC found that:

- 30% of contractors said their business had been quite seriously impacted by skills shortages. 44% have been marginally affected in some way and 4% severely impacted
- 25% of respondents are going to use more labour only sub-contractors in the next year,

and 31% will use more bona fide sub-contractors

- 32% of the contractors surveyed plan to take on more apprentices in the next year

Richard Forrest Smith, CEO of ECIC said: "It's no secret that the contracting sector, including the UK's engineering services sector which is our key focus at ECIC, is facing a serious skills shortage which is increasing dependence on subcontractors. This is underlined in the findings of a recent survey[2] by ECIC's parent, the ECA, which showed that labour costs had increased for 5 in 10 engineering services contractors. Greater use of subcontractors can make the task of managing health and safety on site much more complex so it is important main contractors understand their responsibilities, not just to subcontractors but to the apprentices they employ too.

Bona fide contractors will be responsible for managing their own health and safety and have their own systems of work. In contrast, Labour Only subcontractors should be treated, from a duty of care perspective, like a directly employed member of staff. However, as main contractors tend to remain contractually liable to the CDM co-ordinator / site owner for works undertaken by the sub-contractors they employ, ECIC advises that they should always satisfy themselves of the adequacy

of their bona fide sub-contractors' health and safety documentation.

Where apprentices are concerned, they should be treated by the contractor as an employee and the contractor would have a responsibility to ensure procedures are in place including adequate supervision taking into consideration the experience, knowledge and ability of the apprentice.

Richard Forrest Smith concludes: "It's vital main contractors create an embedded approach to health and safety amongst the entire workforce, from apprentices through to highly skilled subcontractors. The alternative is greater risk of accidents on site, leading potentially to liability claims, prosecutions, heavy fines and even possibly a jail sentence.

"On a more positive note, the plans to take on more apprentices is welcome news. Our parent, the ECA, has campaigned for quality engineering and technical apprenticeships and is working with partners within TESP – The Electrotechnical Skills Partnership – on a career progression project intended to upskill existing workers within the industry. Our findings suggest these efforts are starting to reap rewards.

[1] Survey undertaken with Construction Enquirer, March 2017, completed by 357 Contractors

[2] <http://www.eca.co.uk/news-and-events/news/2017/may/survey-engineering-services-sector-powers-ahead>

(Source: www.ecic.co.uk)



BIM for site managers

A new online training course, BIM for Site Managers, has been launched by BRE Academy and the Construction Industry Training Board (CITB).

It is designated for site managers and will give them a solid foundation in Building Information Modelling. BIM is rapidly changing the way that people work and collaborate on construction projects. It can deliver faster, more efficient construction, fewer mistakes and lower costs over the lifetime of a building. It is about far more than simply adopting software, and site managers will increasingly be required to adopt and apply BIM procedures. The online course discusses the key principles of BIM and will help site managers understand their responsibilities and the actions they need to take.

Ben Lever, Future Skills Manager at CITB, said: "BIM is becoming ever more important in construc-

tion, which is why we are pleased to have worked with BRE to develop this course. Led by the forward-thinking team at BRE Academy, it provides the targeted and rigorous training that's really needed."

He added: "It's right that this course is aimed at site managers because they have a key role to play in implementing BIM and ensuring successful adoption. We hope this course has a big impact and helps our industry raise its performance."

The course have been developed by BRE experts and it is delivered online, what enables site managers to undertake it at their own convenience, start and stop the course, redo parts if wished or to refer to it as a point of reference.

The course covers:

- Defining the process known as BIM Level 2, definitions and terminology
- An understanding of how to improve workflows

- How to limit liabilities
- How to reduce risk on deliverables
- How BIM can reduce waste, improve accuracy and increase profit margins.

Pauline Traetto, Director of BRE Academy, said: "Our mission is to ensure that the whole supply chain is competent in BIM Level 2, and that both individuals and employers within the architecture, engineering and construction industries fit into the BIM Level 2 process. CITB has highlighted how key site managers are in delivering BIM projects, and we are delighted to have been their partner of choice for creating this course."

(Source: BRE Academy, CITB)



CITB levy rate for 2018-2020

The Construction Industry Training Board (CITB) has confirmed its proposed Levy rate for 2018 – 2020. Following, CITB's consultation with the industry, the proposal is to cut the levy rate from its present 0.5% to 0.35% PAYE, with the subcontractor NET CIS rate unchanged at 1.25%.

It is important to mention that there will be no change to the existing thresholds, so employers:

- are exempt if their wage bill is less than £80k
- pay 50% of the rate if their wage bill is between £80k and £399k
- pay the full rate if their wage bill is £400k or above

The proposal has received approval from the CITB Board and the Levy working party, which is made up of firms of all sizes from across England, Scotland and Wales. The next phase is the consensus process which will take place from early July to the end of September. Consensus federations will

seek the views of their members about this proposal and have all demonstrated to CITB that they have a transparent and strong approach. In addition, an independent survey will seek the views on the proposal from 6,000 employers, who are not members of Consensus Federations. This is a significant increase on the previous survey.

Following the formal consensus period, the result will be given final consent by the government.

Sarah Beale, CITB Chief Executive, said: "We are pleased that this levy rate has been approved by the CITB Board and the industry-led Levy Working Party. We firmly believe this offers value to employers and will deliver great impact for our industry in

generating the construction skills it requires.

"It was critical that we extensively consulted employers across England, Scotland and Wales on this and our future plans.

"We now move onto the next stage of the process – formally seeking the views of employers through the Consensus Federations and through a large independent survey of employers who are not in their membership. I look forward to sharing the results later in the year. Ahead of this, we will be sharing more details of how CITB will use funds raised by the levy to support construction to meet its skill needs."

(Source: CITB)

MOOC

Free Online Course for Construction Professionals by CIOB Construction Ethics and Compliance Starts 5th June

The CIOB Academy launched in January 2017 an industry massive open online course (MOOC) on ethics and compliance designated for construction professionals. It is free and open to anyone working in the built environment. This is an interactive five-week course and the closest date to join is 5th June. You can find out how to stay ethical, compliant and professional in the construction industry. Ethics and compliance are very desirable in the business also in the building sector. Companies can be fined enormous amounts for breaches in the field of ethics and compliance, for instance for bribery, collusion, modern slavery or negligence of health and safety.

The course programme was developed by CIOB in collaboration with experts including Jay Blithe of the Barrett Values Centre, sustainable construction consultancy Responsible Solutions, and Ethical Leadership author Andrew Leigh, but also construction clients and contractors.

This free course helps to understand the concept of ethics in the building sector. Being compliant, ethical and legal helps achieve excellence by improving relationships with clients or workers, interactions in the workplace, identifying conflicts of interest or taking steps to minimise risk. Ethics is a set of principles that lead a person's behaviour or how he conduct the activity. Moreover, the values of an organisation are having an impact on its success. MOOC will allow you to recognise your and your company ethical standards and help you stay professional and compliant.

It lasts two weeks with lectures two hours per week. This course is suitable for everyone working in the construction sector from construction management, site management, HR, design, procurement, surveying and more. The topics are presented in the form of social learning, questionnaires, videos, articles and quizzes. Participants

can interact with each other, and the course leader on the forum with tutors and contributors available online to answer questions and join discussions.

Topics covered:

- Understanding ethics and its definition
- How values and behaviour drive ethical decision making
- Values in a global context
- Being professional and ethical
- Law and compliance
- Ethics in organisation
- Ethics in the context of construction project
- Methods for ethical decisions and dilemmas
- Ethical leadership
- Conflicts of interest and managing risk

Course leader and owner of Construction Coach, Maria Coulter said: "Construction is a fast paced industry, and people are working under tremendous pressure to deliver for clients and employers within complex frameworks."

Maria added: "Unfortunately, conflicting requirements can sometimes force people to compromise their personal values. This can lead to

disillusionment which not only erodes trust, but also damages morale and wellbeing, negatively impacting the performance of individuals and teams."

"By providing a safe place to explore and discuss ethical issues, and by opening this course up to anyone in the industry, we hope to facilitate positive change on a large scale."

Holly Walton, Head of CIOB Academy said: "Since launching the CIOB Academy in December, we have received an enthusiastic response for our targeted construction courses that have been designed by industry, for the industry. We welcome businesses and industry bodies to share and promote this course widely, and to help make a difference to the ethical standards of constructors."

"CIOB Academy's ethics and compliance MOOC is the first in a series of free training that will be launched over the coming months. It's part of our commitment to raising professional standards globally, enhancing the quality of life for everyone working in construction."

For more information on the course visit <https://www.futurelearn.com/courses/construction-ethics-compliance>

(Source: CIOB)



Brickie visa

The British construction industry relies heavily on the workforce from the EU, especially from Eastern European countries like Poland and Romania. There is a fear that any future limitations on the labour movement will severely impact the industry.

According to recent CITB survey, skills shortages in the construction sector are the main reasons why one in three construction companies employ EU citizens, saying they have comparable skills to British workers but better work ethic. According to Labour Force Survey (LFS) data, in 2015 the five most common non-UK countries of birth of construction workers were Poland (55.5k), Romania (27.k), India (19.4k), Lithuania (17.9k) and Ireland (15.k). Moreover, the perception that non-UK workers are cheaper than British labour is outdated as 92% of employers of non-UK workers states that this is not a motivating factor. The insufficient supply of skilled UK workers leads companies to employ migrants.

The Prime Minister, Theresa May, has recently proposed the 'settled status' for EU nationals working in the UK for five years before the cut-off date (to be announced no earlier than 29 March 2017 (the date Article 50 was triggered) or later than

the date the UK leaves the EU). Deadline for the UK to leave the EU is on March 30, 2019. The arrangements for people who will come after cut-off date or before but with no five years work history are still in preparation. Stay up to date by signing up to the government mailing list at <https://gov.smartwebportal.co.uk/homeoffice/public/web-form.asp?id=67&id2=627DF7&active=True>

Construction companies claim that there will be a need for EU workers after Brexit, especially in trades like bricklaying and plumbing. The long term aim is to train British workforce, but continuous access to skills migrant labour will be still required. Migration Watch UK has therefore recommended the introduction of an "EU Skills Shortage Visa" for EU workers. Migration Watch UK had last month issued a paper "EU Immigration, Post-Brexit – A Comprehensive Policy" on the prospect for temporary visas for EU migrants to work in jobs at lower skill levels than presently required

for admission of non-EU nationals, such as bricklaying, plumbing and construction among others, for a maximum of three years after Brexit. It would be valid for not more than three years with a levy, payable by employers, which would increase each year. There would be no route to settlement and no in-work benefits, tax credits or housing benefit.

Mr Alp Mehmet, Vice-Chairman of Migration Watch UK, said: "We have recommended that EU workers be included in the current arrangements for entry to highly-skilled jobs but without a cap. We have also suggested "Barista Visas" for young Europeans. We now propose these "Brickie Visas" which would meet a genuine need for a few years but with strong financial incentives for employers to train British workers. Training outside the workplace has fallen off a cliff since 2000. Employers must now step up to the mark."

Sarah McMonagle, director of external affairs at the Federation of Master Builders, pointed that visa scheme could be too costly and bureaucratic for smaller companies to employ migrant labour. There won't be enough time to train sufficient numbers of British workers to meet the demand and the government need to take this into consideration while negotiating with the EU.



BUILDING MATERIALS

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Home Fire Sprinklers Initiative

Following Grenfell Tower fire on 14th June 2017, the most serious and tragic fire in recent years, there are numerous calls for high-rise buildings to be retrofitted with sprinkler systems and for the building regulations to be reassessed.

When compared to older technologies, today's homebuilding materials offer a more economical and sustainable way of constructing new buildings. A less known fact is the dramatic way some of these new products or technologies could respond to fire. Grenfell Tower is an example how modern cladding technology had an impact on the fire spread. New homes are often built with lighter materials, have larger open spaces and furniture made of combustible materials. These new materials and technologies bring new fire challenges and can exaggerate fire spread and lead to homes burning more quickly. Smoke alarms are not enough, and home fire sprinklers are said to reduce the risk of death in the fire by 80 percent, while there is a 70 percent reduction in direct property damage. Office buildings, high-rise buildings, schools, care homes, hospitals, etc. should be retrofitted with fire sprinklers. Home fire sprinklers could also be installed in new one- and two-family homes.

Fire sprinklers reduce fire spread. All buildings constructed after 2007 and more than 30 metres (98 ft) high are required to be fitted with sprinkler systems. The British Automatic Fire Sprinkler Association (BAFSA) estimates that the cost of installing a system in Grenfell Tower would have been around £200,000. Costs are never too high when safety is in mind and leaks, or accidental activations are very rare. Moreover, according to research, the sprinklers reduce the water use to fight the fire and greenhouse emissions during house fires so smoke's density and toxicity.

A panel of experts during the FIREX International Expo agreed that building regulations must be reassessed as a part of the inquiry into the Grenfell Tower fire. According to Dennis Davis of the Fire Sector Federation (FSF), "the approved documents are falling behind what is going on within the built environment." It is believed that the cladding used at Grenfell Tower was non-compliant

with building regulations for high-rise buildings and that building inspections by council failed to address the issue. The Department of Communities and Local Government, which oversees building regulations, says: "Cladding using a composite aluminium panel with a polyethene core would be non-compliant with current building regulations guidance. This material should not be used as cladding on buildings over 18m in height." It is believed that the cladding used at Grenfell Tower was non-compliant with building regulations for high-rise buildings.

What should builders know about the fire sprinklers?

Building Regulations- Refer to British Automatic Fire Sprinkler Association (BAFSA) at www.bafsa.org.uk According to Approved Document B of Building Regulations 2000 all new residential blocks over 30m high must be fitted with sprinklers. Similarly, an uncomparted area in a shop or self-storage building over 2000 square metres now require sprinkler protection. There are similar regulations applying to large single storey buildings for industrial or storage use where the largest permitted unsprinkled compartment is 20,000 square metres. Sprinklers system can be installed as a "trade-off" for building regulations compliance.

Types of Sprinklers

- **Wet pipe** - the most common systems used in buildings where there is no risk of freezing. Pipes are filled with water which is above the sprinkler heads and can be activated immediately. Wet systems are required for multi-storey or high-rise buildings.
- **Alternate** - alternate systems can have the pipes full of water for the summer months and be drained down for the winter, what is important for buildings that are not heated.
- **Dry pipe** - pipes are filled with air under pressure at all times and the water is held back by the control valve. When a sprinkler head opens, the drop in air pressure opens the valve and water flows into the pipework and onto the fire.
- **Pre-action** - Like dry pipe systems the pipes are filled with air but water is only

let into the pipes when the detector operates (e.g. smoke detectors). Pre-action systems are used where it is not acceptable to have the pipes full of water unless there is a fire.

- **Deluge and recycling** - these are used for industrial risks.

Installation

Sprinklers are installed in the same way as plumbing, behind walls and ceilings. All areas of the building that require sprinklers protection is covered by the grid of pipes with sprinkler heads fitted into them at regular intervals. Sprinklers pipes are made of chloro-polyvinyl chloride (CPVC) or cross-linked polyethylene (PEX), a cost-effective, lightweight material. Copper pipe can also be used. There is a valve that can be used to shut off the system for maintenance. Sprinklers in residential and domestic occupancies should be installed in compliance with BS 9251:2005 Sprinkler systems for residential and domestic occupancies. Code of practice. (For more information on the application of BS 9251, refer to BAFSA Technical Guidance Document No 1). Where this standard is not appropriate, sprinklers should be designed and installed in accordance with BS EN 12845 2004 Fixed fire fighting systems. Automatic sprinkler systems. Design, installation and maintenance.

How sprinklers work

All home fire sprinklers operate in response to the high temperature of a fire, usually between 135-165 °F. Smoke or a smoke alarm signal cannot operate a fire sprinkler. Each sprinkler reacts to nearby high heat individually. Fire sprinklers do not flow water simultaneously unless multiple sprinklers are exposed to their activation temperature. The sprinkler nearest a fire will operate automatically while the fire is still small, controlling or extinguishing it (often before the fire department arrives). That fast response limits the spread of flames, heat, and poisonous smoke. In 90% of home fires, just one sprinkler is needed to control the fire. Little maintenance is required with periodic tests of the pump and water flow.

Skills requirements

There are specially designated courses and all installer members of the BAFSA can be recommended for sprinklers system installation.

Retrofitting Sprinklers

In September 2011, BAFSA funded a pilot project to install sprinklers in a Sheffield tower block, which proved that it is possible and cost-effective to retrofit sprinklers into an existing high-rise block without first having to relocate the tenants. Such installations can be undertaken on a fast track basis and the installation cost of £1,150 per flat compares favourably with other fire protection measures; Modern sprinkler are specially designed to meet the needs of architects in offices, hotels, shops, hospitals and prestige buildings. They are compact and elegant. In most buildings, the public is usually unaware that sprinklers are fitted. Miniature sprinklers are little bigger than a 50p piece and are neat and robust. They can be fitted with ceiling rosettes and painted to match any colour scheme. Concealed Sprinklers are recessed and

covered by a flat plate flush with the ceiling. They are unobtrusive and almost invisible. Concealed Sprinklers are ideal for clean areas, where there is restricted headroom or vandalism is a problem.

Benefits for Builders and Developers

Sprinklers increase the safety standards of the property and enable the Building Regulation compliance (escape requirements). Amongst incentives to install sprinklers are allowing more residential units, other exit provisions, travel distances, fire separation, access for fire and rescue services, access to the fire hydrant, longer dead ends, boundary conditions, etc.

(Source: British Automatic Fire Sprinkler Association)



NHBC Standards 2017 - RENDER

New technical guidance highlighting best practice for the application of render was published in NHBC Standards 2017, which came into force on 1st January 2017.

The new Chapter 6.11 'Render' is a key element of NHBC's on-going campaign to reduce defects in external walls. The rigours of exposure to external conditions can soon start to test the durability of render on a new home and it is anticipated that the technical guidance and advice in the new chapter will help reduce damage.

Explaining the reasons behind the new chapter, NHBC Standards Manager Paul Cribbens said: "In a relatively short space of time poor design detailing can be laid bare, resulting in preventable render damage. Recognising the increased consequences in relation to issues such as cracking in rendered walls, the new Chapter 6.11 sees the introduction of specific guidance to assist the building designer."

Guidance recommends to apply render only in the proper weather conditions to allow render to cure properly. The appropriate precautions steps should be taken in wet, hot or cold weather. Always install render accordingly to manufacturers manuals but generally avoid the base to be persistently wet, spray render with water when the temperature is high to avoid it to set to rapidly, prevent background or applied render to be saturated, protect applied render from heavy rainfall etc. The guidance also mentions about the careful preparation of the background of masonry, clay or metal lath walls and preparation according to manuals to provide appropriate bond. NHBC advised also on the mix proportions for cement-based mixes and coat thicknesses.

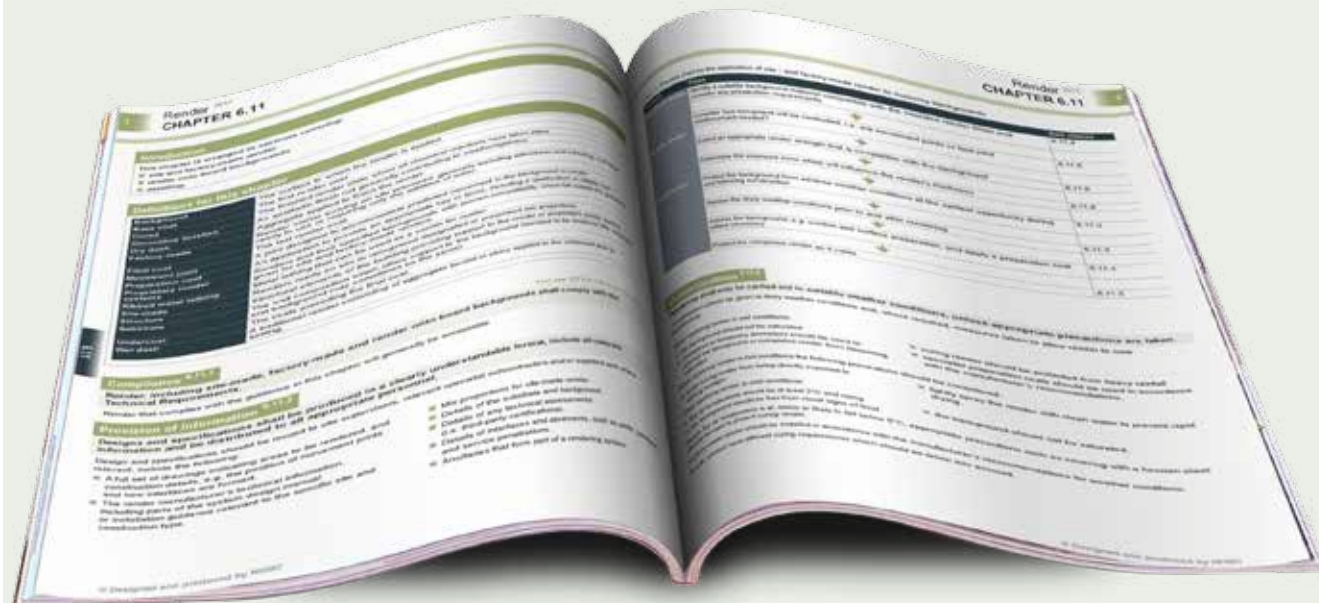
Another important matter is the accommodation of movement which is summarised below:

- Movement joints should be continuous through the render and background and made weathertight with an appropriate seal.

- Position joints so that they do not pass through rigid wall components such as lintels or bed joint reinforcement.
- Bed joint reinforcement should be placed in the first two courses of the external leaf above and below any opening. Where possible, reinforcement should extend 600mm beyond the opening.
- Where a board background is attached to a timber framed building via battens, consideration needs to be given at the accommodation of movement at each floor zone. All joints should be detailed in accordance with the system manufacturer's recommendations to be weathertight and allow for movement.
- Ensure that the accommodation of movement to rendered parts of the home is considered at design stage.

Full details of the chapter are freely available online at NHBC's Techzone at www.nhbc.co.uk

(Source: NHBC)



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Croydon CR0 4ZS
020 8680 9026
croydon@ibb.pl

IBB Birmingham
425 Walsall Rd,
Birmingham B42 1BT
0121 356 8655
birmingham@ibb.pl

IBB Manchester
Unit 24, Piccadilly Trading Estate,
Manchester M1 2NP
0161 375 1210
manchester@ibb.pl

TICA Skill Card scheme

The Construction Skills Certification Scheme (CSCS) has recently notified that the Thermal Insulation Operative will be transferred to the new TICA Skill Card. It was agreed that TICA Skill Card better represents the Thermal Insulation sector and from the 19th June 2017, all new applications for first card or for renewals have to be directed to to the TICA Skill Card. All applicants who applied before the 19th June will be issued with CSCS card valid for 5 years and required to renew for TICA Skill Card after the card expires.

More information can be found here <http://tica-acad.co.uk/tica-skill-card/> or call 03333 237751.

Thermal Insulation Contractor Association (TICA) has been representing the Thermal Insulation industry for 60 years already. It offers the professional training in form of apprenticeship, S/NVQs and short courses.

Applicants for TICA Skill Card will be able to apply online by filling the application forms and submitting proofs of the qualifications required for the requested card. When applying for a TICA Skill

Card one of the requirements is the provision of an S/NVQ Thermal Insulation qualification certificate. If these qualifications have NOT been awarded by TICA a further assessment is required to assure the competency of the applicant. The 1 day Competency Assessments are held in Darlington at the National Training Centre and can be arranged by calling 03333 237751.

The cost of the test is £420 inc vat. In the event of a failure a full training needs analysis is carried out and a bespoke upskilling programme developed. In the majority of cases only 1 day attendance at the National Training Centre will be necessary as upskilling can be provided on site.

TICA Card Types

TICA Apprenticeship Card - valid for 4 years, no renewable, available for TICA apprentices who are registered for the L2 or L3 TICA Thermal Insulation Apprenticeship AND have passed the CITB HS&E Test or CCNSG Safety Passport within the previous 2 years.

TICA Experienced Worker Card - valid for 1 Year, no renewable, available for experienced workers who have not completed the S/NVQ Thermal Insulation qualification or a TICA apprenticeship and who have missed the opportunity to join the scheme by Industry Accreditation (Grandfather Rights). This card will be issued on receipt of proof the applicant has successfully completed ONE of the following routes:

- Registration for the L2 S/NVQ in Thermal Insulation AND has successfully completed a L2 Technical Certificate in Thermal Insulation

- Registration for the L2 S/NVQ in Thermal Insulation AND has successfully completed a TICA one day competence assessment. Operatives who registered and completed the L2 S/NVQ in Thermal Insulation with TICA will have already completed the competency assessment as part of their registration process and will not be required to re-sit the assessment as part of this CSCS Skill Card application process.

You must also hold valid certificates in:

- Asbestos Awareness
- CCNSG Safety Passport OR
- CITB HS&E Test (within the previous 2 years)

TICA Skilled Worker Card - valid for 5 years, no renewable, available for Issued on receipt of proof the applicant has successfully completed ONE of the following routes:

- TICA L2 Thermal Insulation Apprenticeship
- Thermal Insulation L2 S/NVQ AND L2 Thermal Insulation Technical Certificate
- Thermal Insulation L2 S/NVQ AND successfully completed a TICA one day competency assessment. Operatives who registered and completed the L2 S/NVQ in Thermal Insulation with TICA will have already completed the competency assessment as part of their registration process and will not be required to re-sit

the assessment as part of this CSCS Skill Card application process.

You must also hold valid certificates in:

- Asbestos Awareness
- CCNSG Safety Passport OR
- CITB HS&E Test (within the previous 2 years)

TICA Advanced Craft Card - valid for 5 years, no renewable, issued on receipt of proof the applicant has successfully completed ONE of the following routes:

- TICA L3 Thermal Insulation Apprenticeship
- Thermal Insulation L3 S/NVQ AND L3 Technical Certificate

You must also hold valid certificates in:

- Asbestos Awareness
- CCNSG Safety Passport OR
- CITB HS&E Test (within the previous 2 years)

TICA Supervisor Card - valid for 5 years, no renewable, issued on receipt of proof the applicant has successfully completed ONE of the following routes:

- L3 Thermal Insulation Apprenticeship
- TICA Thermal Insulation L2 Apprenticeship AND L3 S/NVQ in Occupational Work Supervision
- L2 S/NVQ in Thermal Insulation AND L2 Technical Certificate in Thermal insulation AND L3 S/NVQ in Occupational Work Supervision
- L2 S/NVQ in Thermal Insulation AND successfully completed a TICA one day competency assessment AND L3 S/NVQ in Occupational Work Supervision

You must also hold valid certificates in:

- Asbestos Awareness
- CITB SSSTS Test (with at least 6 months validity)

For more information visit
www.tica-acad.co.uk/contact

(Source: CSCS; TICA)



Appointing a Structural Engineer

Safety is the crucial aspect of any building project. Most of the construction work to the existing building or constructing a new building requires the specialist advice of the structural engineer. Inappropriate alternations to the building structure may lead to its collapse or defects and may invalidate a building's insurance.

A structural engineer is the designer of the structure of buildings, their alternations or extensions in accordance with regulation and legislation. A structural engineer will provide the pro-

fessional assessment and advice or solution to building structural problems, for instance, cracking, defects, etc.

A structural engineer can work in collaboration with the designer. Construction works have to comply with Part A of Building Regulations and require detailed specifications and measurement. A completion certificate will be issued only if works and building comply with the law. It is recommended to check if the engineer has the appropriate level of PI insurance.

Structural engineers can advise on:

- deteriorating structural materials and building safety
- impacts of flood, fire or collapse, crack and movements
- alternation, removal or extension

- change of building use
- internal remodelling of the building

A structural engineer will provide the calculations and advice for foundations, drainage, ground improvement, demolition, steel, timber frame, fire protection, roof, structural detailing and others.

It is important to mention what laws are applied to building construction in the UK. Building Regulations (England, Wales or Northern Ireland) and Building Standards (Scotland). Planning permission is required for most alternations and building construction.

A structural engineer can assist in the application for building permission and inspect construction site for checks on work progress and its accordance with the drawings. Some buildings might require the Listed Building or Conservation Area Consent. Works on such buildings will need the specialist advice of structural engineers experienced in such field. Search www.careregister.org.uk or findanengineer.com for structural inspectors specialised in historical buildings.

A structural engineer will provide the inspection survey and report, advise on the design options and produce the required calculations, drawings and specifications. Moreover, the structural engineer will provide the builder with instructions and advice and will help to adhere to Building Regulations.

How much structural engineer costs?

Structural engineer costs can be 5-10% of the project's total cost. Ensure to include in the contract all necessary survey costs until the building completion.

The qualified engineers include Chartered and Incorporated Engineers who are members of the Institution of Civil Engineers and the Institution of Structural Engineers. Search for a Structural Engineer at istructe.org/building-confidence.

(Source: Institute of Structural Engineers (ISTRUCTE))

Common Compliance Pitfalls

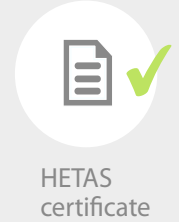
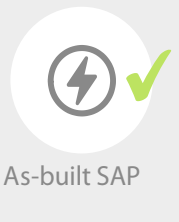
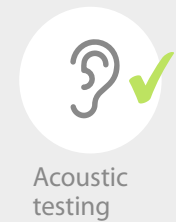
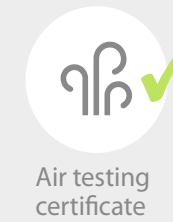
A guide for new builds and self builds

When it comes to obtaining sign-off from building control there are many common pitfalls that can lead to non-compliance. We've partnered with the LABC to bring you the key factors that can influence your construction completion certification on new builds and self-builds....

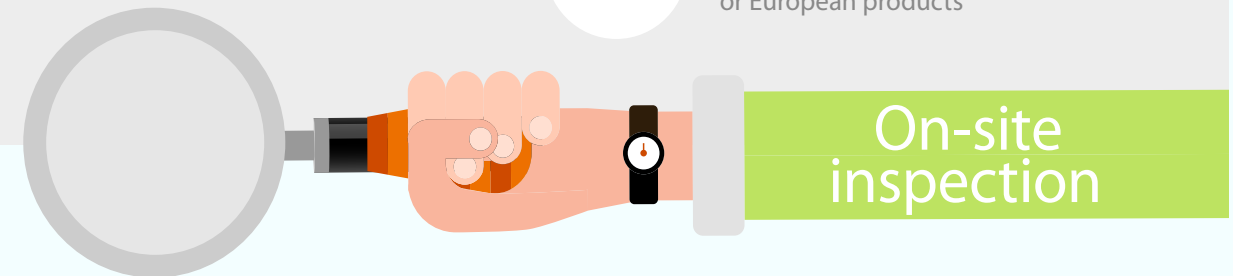


Paperwork

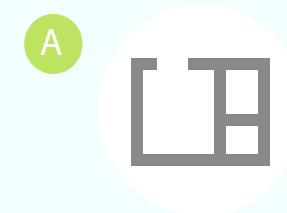
Building Control cannot sign off a new build or self build dwelling unless specific paperwork has been supplied and verified, so to avoid timely testing post sign-off ensure you have the following:



Test certificates to support innovative/unusual products or European products 



The fundamental on-site influences preventing building control from verifying compliance are:



Deviation from the approved layout plan



Deviation between
the as-designed and
as-built SAP



Lack of safety glass in critical locations



Damp proof courses are not high enough from ground level



Extract fans missing or not ducted to the outside of the property from bathroom or toilet areas



Fire alarms are missing
or not connected



Product substitution



Continuity on insulation, typically where the roof meets the wall

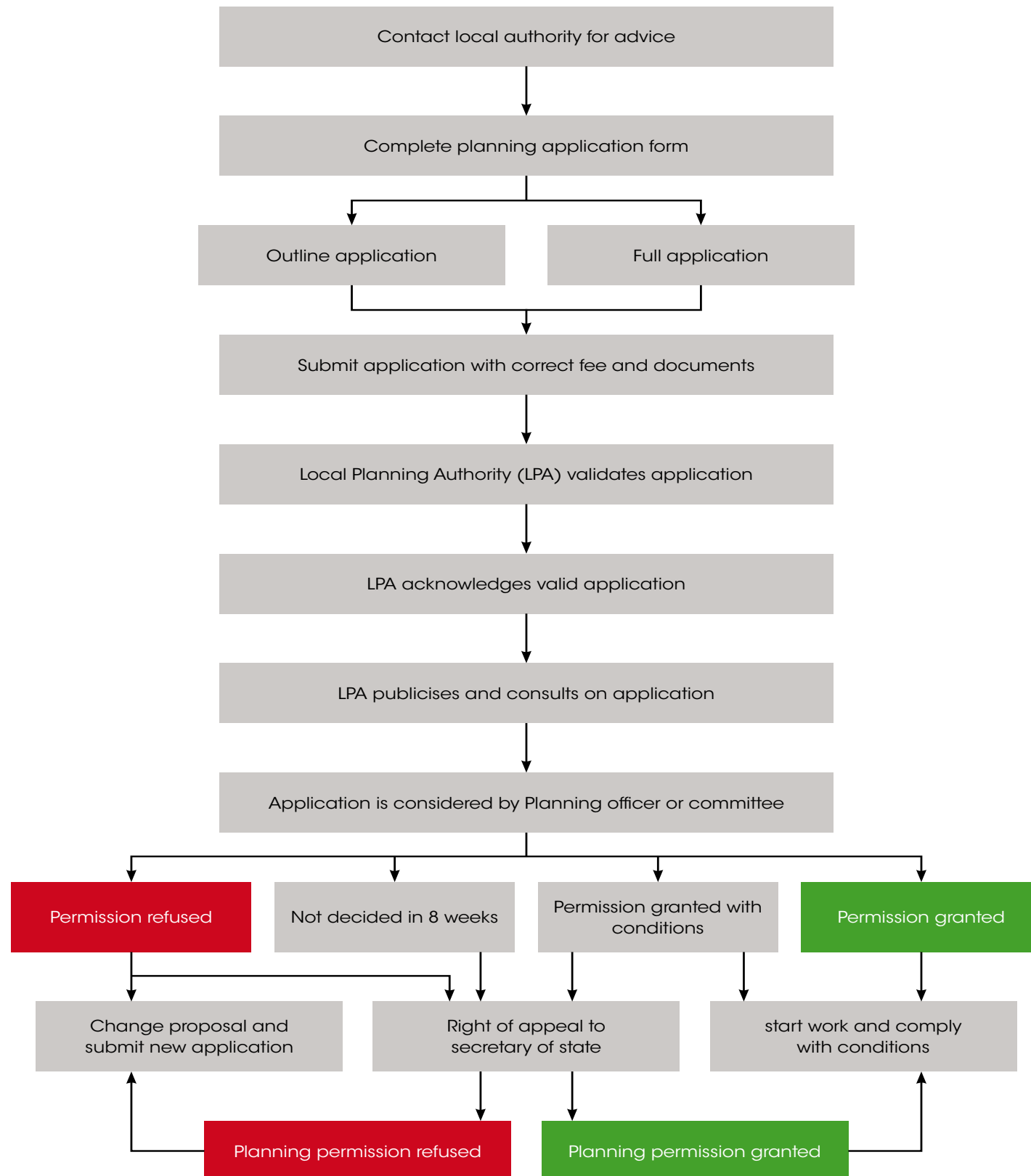


Abutment, usually a lack of flashing where the roof joins a wall

For more information visit greenworks.co.uk

THE PLANNING PROCESS FLOWCHART

A guide to navigating the planning process



IBBTherm
External Wall Insulation System



*Quality
for professionals...*

**The
Guide
to**

**External Wall Insulation
& Render System**

Why Choose Our

External Wall Insulation & Render System?

IBBTherm
External Wall Insulation System

IBB Therm External Wall Insulation & Render System offers sustainability, energy efficiency and innovative exterior finish. It offers the highest technology standards for cutting energy costs and is an excellent value for money. It is designated for both new builds and retrofits, allowing for creation of the better build environment.

IBB Therm is the thin coat insulated render system specially designated for both new builds and retrofits. IBB Therm is offered as ETICS- External Thermal Insulation Composite Systems and meets ETA 16/0347 requirements and No. PN-EN 15824:2010 requirement. It is currently in the process of BBA accreditation.

Protects the building structure - IBB Therm provides the external protective layer to the building structure.

Reduces energy loss - IBB Therm System offers the efficient type of insulation that lowers the U-values. Allows for choice of insulation thicknesses- it is not restricted by the cavity width or internal building dimensions.

Eliminates thermal bridges - IBB Therm reduces thermal bridging, minimises the problem of condensation, achieves low air permeability of the building envelope.

Improves External Facade - IBB Therm is available in the range of colours and textures what allows to achieve the exceptional finishes

Low maintenance - IBB Therm is resistant to adverse weather conditions, stains or discolouration

Easy application - IBB Therm System can be applied by professionals in easy process on all types of buildings- residential, high-rise and commercial buildings.

High resistance - IBB Therm System is highly resistant to weather conditions, UV radiation, water penetration, contamination etc.



How to take care of Render Facade?

If your property received the External Wall Insulation and Render System recently this short guide will inform you how to maintain its good appearance and efficiency. Within years weather conditions, heavy rains, snow, strong sun or the wind will have an impact on the external appearance of the render. It can be contaminated with sand and dust. Cracks and scratches may occur. Damp patches, smudges, discolours can be avoided with the proper maintenance and regular cleaning.

Maintenance

Once a year inspects the system to check for any damage, crack or discoloured areas. Inspect seals annually and avoid the high pressure washer to clean the render. Moreover, the annual coat of fungicidal wash can prevent algae and mould from growing. Contact us for advice about cleaning, doing minor repairs, replacing or adding new fixtures and fittings.

How to clean render facade?

Apply fresh warm water to the facade surface from top to bottom and use a brush carefully to clean the facade. In cases when dirt is not cleaned quickly the mild detergent/cleaning agent can be used and washed off. Often it is better to repaint the rendered facade and achieve the new appearance.

How to renovate the elevation?

There is a range of chemical agents available on the market. Some facades can be renovated with priming products, cement smoothing masses and appropriately selected facade paint. Such process of restoration consists of :

Step 1 - repairing cracks with the cement smoothing mass - we recommend Acryl Putz Fasada (available in all IBB depots)

Step 2 - painting by using one of the IBB Therm facade paints (AP100 or SN300). Depending on the surface material it can be an acrylic, silicate or silicone paint.

More time-consuming will be repair or replacement of the insulation layer. Such process of restoration involves the system approach and consists of:

Step 1 - restoration of external appearance (texture and colour)

Step 2 - use of adhesives, primers and plasters (mineral MT100, acrylic AT100 and silicone ST300). IBB Therm products are carefully selected and manufactured to the highest standards, while offers the excellent value for money.

Step 3 - painting of repaired area with IBB Therm facade paints (AP100 or SN300) in over 800 shades.

Thanks to used components the IBB Therm paints and plasters are highly resistant to UV radiation and preserve excellent colour for a long time.

To find out more about IBB Therm visit www.ibbtherm.uk. You can buy IBB Therm System and all products at www.ibbmerchant.uk



BRAND DESCRIPTION

Professional system of Building Insulation **IBBTherm** is a complete offer of products designed for performing external building insulation including:

- decorative thin coat renders
- facade paints
- primers and undercoats
- adhesive mortars
- fibreglass reinforcing mesh.

IBBTherm components are carefully selected by us, the best and the most cost effective external render materials on the market !

IBBTherm materials are good for building renovation as far as thermal insulation, construction protection and external image look are concerned. **IBBTherm** is a wide range of solutions based on top-quality products, available in full range of colours used both in currently erected buildings as well as existing detached and terrace houses.

IBBTherm
External Wall Insulation System

APPROVALS AND CERTIFICATIONS

IBBTherm products are offered in ETICS – External Thermal Insulation Composite Systems of building walls. They hold all required technical approvals and certifications:

Systems **IBBTherm S** – with polystyrene:

- Meet the requirements of standard No. PN-EN 15824:2010.
- ETA 16/0347



Polymers Protection

Polymers Protection is a unique combination of physical and chemical properties, being a part of surface system protection. Its particles concentrate on the surface of coating, decreasing its tension. As a result the surface attracts less contamination and dirt has less possibility to bind with the surface permanently. Moreover, a decorative coating is more durable and resistant to water penetration, which is freely removed from the elevation surface.

Features of **IBBTherm** paints and plasters enriched by Polymers Protection:

- resistant to deposits of dirt and dust on the surface of elevation,
- easy to clean, remove stains and contaminations,
- resistant to washing,
- provide effective protection against weather condition influence,
- resistant to destructive influence of UV radiation,
- resistant to water penetration which is quickly removed from the elevation surface,
- resistant to washing out protective substances,
- easy application.



BioCare Technology

Buildings are often exposed to influence of microorganisms which contribute to their damage. Both algae and fungus development is increased by moisture penetrating the uninsulated structure of walls. IBBTherm products are based on laboratory developed formula, which efficiently deter development of destructive factors. Specially designed products ensure sound and aesthetic elevations, resistant to microbiological corrosion. BioCare Technology, preventing formation of wall and ceiling corrosion centres, ensures also pure air within interiors as well as protects people's health who reside in them.



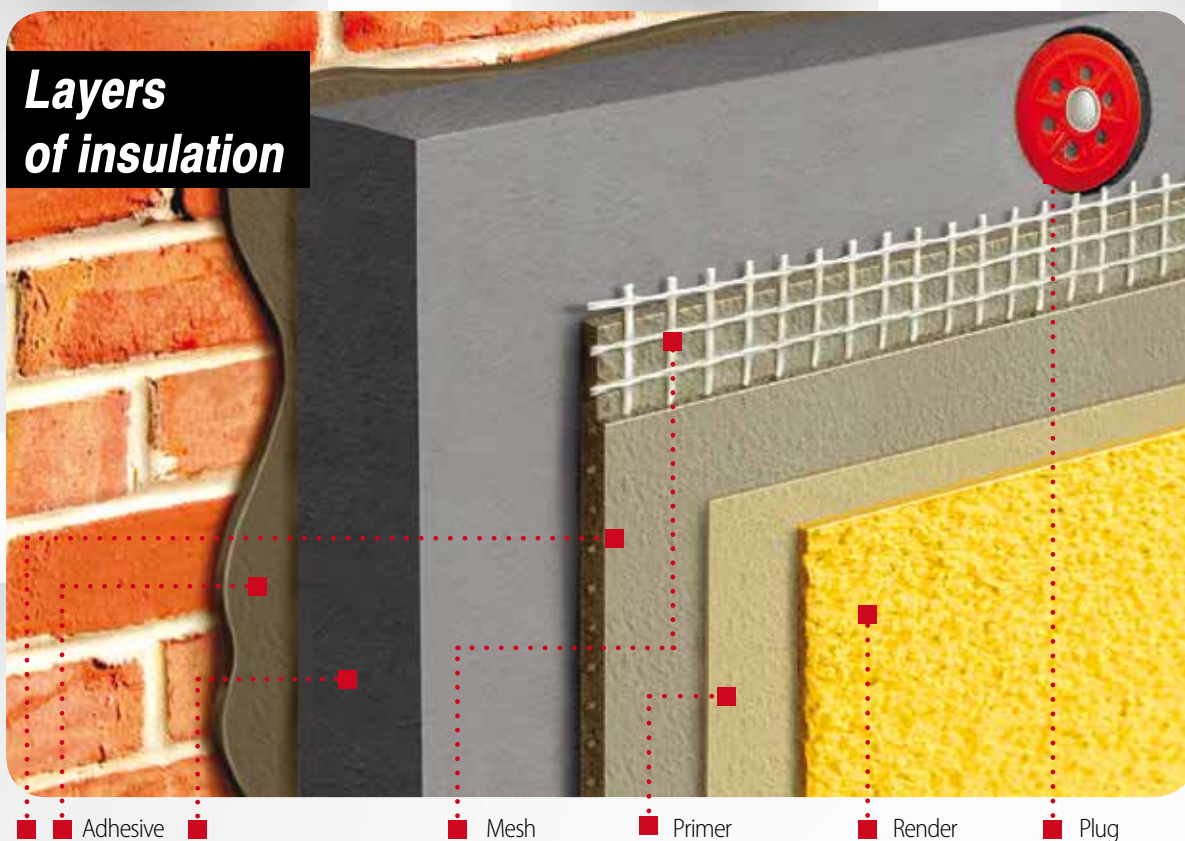
Easy Application

IBBTherm products are based on a special combination of components which ensure easy application as well as maintain very good adhesive properties to the surface. A suitable configuration of additives control the binding time of used products, contributing to easy application and in the event of plasters, sufficient time to obtain the required structure without a risk of premature binding. **IBBTherm** facade paints contain a special composition of rheology agents which prevent paint splatter during painting.



Systems with use of polystyrene

- S1 Mineral plaster **IBBTherm** TM100
- S2 Acrylic plaster **IBBTherm** AT100
- S3 Acrylic and silicone plaster **IBBTherm** AST120
- S5 Silicone plaster **IBBTherm** ST300



The division of systems as regards plaster types

IBBTherm offer includes systems with use of polystyrene. Due to a type of plasters we can divide them into systems with use of plasters made of mineral, acryl, polymer as well as silicate and silicone.

Plasters	Plaster types	SYSTEM
		Polystyrene
MINERAL	Mineral plaster TM100	S1
ACRYLIC	Acrylic plaster AT100	S2
	Acrylic and silicone plaster AST120	S3
SILICONE	Silicone plaster ST300	S5

Plaster primers support the binding and drying process of applied plasters as well as prevent coat discoloration. They facilitate all works associated with plaster application, enhance its adhesiveness and uniform the substrate absorptiveness. They can be used both indoors and outdoors, upon substrates made of concrete, cement, cement and lime, plaster cardboard panels, particle boards etc.



IBBTherm AU10 ACRYLIC UNDERCOAT



IBBTherm SU30 SILICONE UNDERCOAT

Technical data:	Acrylic undercoat AU10	Silicone undercoat SU30
Application temp.	from +5°C to +25°C	from +10°C to +25°C
Density volume	1.65 g/cm ³ ± 5%	1.55 g/cm ³ ± 10%
Drying period	to 3 hours	to 3 hours
Plaster application time	24 hours after priming	24 hours after priming
Use	approx 0.3 kg/m ²	approx 0.3 kg/m ²
Container	container of: 16 kg, 8 kg, 3 kg	container of: 16 kg, 8 kg
Suitable for the following plasters	TM 10, TA 11, TS 12, TPT 40, TSS 25, TD 50	TN 30, TSS 25

IBBTherm PMA11

POLYSTYRENE & MESH ADHESIVE

Adhesive mortars are available in the form of pre blended dry mortars which consist of mineral aggregates, cement and special additives improving adhesiveness, efficiency and finishing works.

The offer covers the following mortars: for polystyrene & fibreglass mesh – PMA 11.



Technical data:	
Appropriate amount of water	approx 5.75-6.25 litres / 25 kg
Application temperature	from +5°C to +25°C
Period after opening (from application to sticking the insulation board)	to 20 minutes
Working period of mortar (from the moment of mixing with water)	approx 1 hour
Hardening time	from 6 to 24 hours
Average use per 1 m² by applying the mortar on the edges and spots	from 4 to 5 kg
Average use per 1 m² by applying the mortar on the whole surface	from 5 to 7 kg
Average consumption per 1 m² with reinforced coat application	from 3 to 5 kg
Adhesive properties to concrete	≥ 0.3 MPa
Adhesive properties to polystyrene	≥ 0.1 MPa
Best-before-date	12 months
Container	25 kg paper bag

USE

The adhesive comprises an External Thermal Insulation Composite System (ETICS) IBBTherm and IBBTherm S. Intended for installing polystyrene boards to all construction substrates: concrete, silicate, ceramic, cement, cement and lime plasters etc., as well as to perform a protective base coat reinforced with a fibreglass mesh. For interior and exterior use of new buildings as well as those subjected to thermo-modernisation. Can be used to fill in holes and cracks in stabilised substrates.

SUBSTRATE PREPARATION

Polystyrene board installation: The substrate intended for installing polystyrene boards must be even, dry, solid, dust and dirt free as well as free from any biological (fungi, moulds, mosses) and chemical aggression etc. All sorts of dirt must be removed by using water under high pressure. Old renders and paint coats with poor adhesion must be removed. Fill in holes with Adhesive Mortar IBBTherm PMA 11 (max. to 6.0 mm in one coat), IBBTherm PA10/ PMA11 or a regular plaster mortar.

In order to reinforce substrates with poor adhesive properties, highly absorptive or chalky (i.e. leaving dust traces after palm rubbing), it's necessary to apply IBBTherm AP10 or IBBTherm AP10, 24 hours prior to polystyrene installation.

Polystyrene can be installed on new cement or cement and lime plasters minimum 14 days after their application. In case of concrete substrates min. after 30 days. All substrates must be stabilised as far as moisture is concerned and the curing process completed.

In the event of installing polystyrene



boards on substrates with poor adhesive properties, it is necessary to carry out an adhesion test. Install sample polystyrene blocks of 10x10 cm dimensions and remove the manually after 4-7 days. The substrate is appropriate if the polystyrene is torn inside. If, however, the adhesive is removed with the polystyrene block and the substrate coat, it's necessary to remove the poor coat and apply IBBTherm AP10 lub IBBTherm PA10 - 24 hours prior to board installation.

REINFORCED COAT PERFORMANCE

The whole surface of installed polystyrene boards must be carefully abraded by sandpaper, and if necessary, carry out other reinforcement by applying plastic anchors. Polystyrene boards without reinforced coat over the course of above 2 weeks - their quality condition must be checked, if yellow and dusty must be abraded by sandpaper. In order to strengthen the external corners and edges it's necessary to apply fibreglass corners with mesh.

ADHESIVE PREPARATION

Put 5,75–6,25 litres of cool water into a clean container and while mixing put the whole content of the adhesive i.e. 25kg (0,23-0,25 litres of water per 1 kg of powder). Mix the compounds by taking advantage of a slow-speed agitator (driller) till obtaining a uniform consistency and leave it for approximately 5 minutes. Next mix it again and adjust the consistency by adding a small amount of water. Do not add any other substances except water. Workability time after mixing with water up to 4 hours. In the event of curing, it's necessary to mix it again without water or fresh mortar. Adding too much water impairs the adhesive features: adhesion to substrate, peel adhesion test, curing time.

POLYSTYRENE INSTALLATION

Polyurethane for insulation within ETICS method should meet requirements of PN-EN 13163:2004 standard. In case of walls, apply the mortar alongside the edges of polystyrene board - min. width of 3 cm and thickness between 1 and 2 cm, and pointwise - 'mounds' - diameter of 8-12 cm - remember to place

the mounds symmetrically and at the same volume. The total amount of applied mortar should cover at least 40% of the board's surface, and 60 % after pressing the board against the surface. In the event of smooth substrates and ceilings, or base courses of buildings apply the mortar on the whole surface of the board with a comb trowel (at least 10x10 mm). After applying the mortar, the board must be immediately put against the wall in the appropriate area and pressed so as to obtain a flat surface with relation to neighbouring boards. The boards must be installed alternately and tightly by joining them with the previously installed sheets. The boards must not be pressed twice or repositioned. Gaps exceeding 2 mm must be filled by polystyrene stripes. Minimum 24 hours after assembly, the surface must be abraded by sandpaper and protected by installing additional anchors in accordance with the technical design or ITB Manual no. 447/2009. It's recommended to use 4 anchors every 1m2, whereas in edge areas and base courses 6-8 anchors every 1m2. The depth of anchors should be at least 6 cm in case of solid substrates, and 8 cm in light substrates made of autoclaved aerated concrete, expanded clay aggregate etc. In the event of masonry units the anchor must go at least through two walls of the unit.

The reinforced coat can be performed at least after 3 days but no later than 3 months after polystyrene installation. If the polystyrene is not covered by the reinforced coat within 14 days, it's necessary to estimate its condition - yellow and dusty boards must be abraded by sandpaper. Before applying the mortar on the whole surface it's necessary to install additional diagonal mesh stripes - 20x30cm - in elevation corners. Appropriate mesh stripes must be also installed in interior corners of window frames. Apply the mortar with a comb trowel upon abraded and dust-free polystyrene boards and immerse the glass fibre mesh in it. Immerse the mesh by performing vertical stripes and apply 10 cm of overlap, and next smooth it so as to cover it completely. The mesh must not adhere directly to the polystyrene and cannot be visible. If necessary, apply another coat of mortar and smooth the surface, abrade the surface

imperfections after drying out. The thickness of the reinforced coat must be at least 3 mm. The ground area, including a base course of a building, must be installed with two layers of the reinforced mesh or fibreglass armour mesh. The plaster can be performed at least after 3 days but no later than 3 months after performing the reinforced coat. Before applying a top coat render it's recommended to paint the surface with undercoat/primer IBBTherm.

RECOMMENDATIONS

Use at the substrate and ambient temperature between +5oC and +25oC. Do not apply on hot substrate. During application it's necessary to avoid direct sunlight, strong wind and rain. Substrate and ambient temperature during application and over the course of 24 hours must not be lower than +5oC. Cured and mixed adhesive must not be diluted by water or new material. Do not apply the adhesive in joints of insulation boards. The information provided constitutes principle guidelines regarding the product use, works must be carried out in accordance with ITB regulations no. 447/2009 and 418/2007, principle construction rules and HSE regulations. The manufacturer shall not be liable for any damages resulting from inappropriate use or purpose of the product. Detailed information about the product can be found in Technical Data Sheet.

STORAGE

Store in dry and ventilated area in undamaged containers. Storage temperature: from +5oC to +25oC. Protect against influence of frost and direct sunlight.

TOOLS

A slow-speed agitator (driller), a trowel, steel trowels (smooth and comb), a container for adhesive.

SAFETY POLICY

The product contains cement and provides alkaline reaction after mixing with water. During application protect eyes and skin. In the event of contact with eyes, rinse them with pure water immediately and contact a physician. Dispose this material and its container at hazardous or special waste collection point.

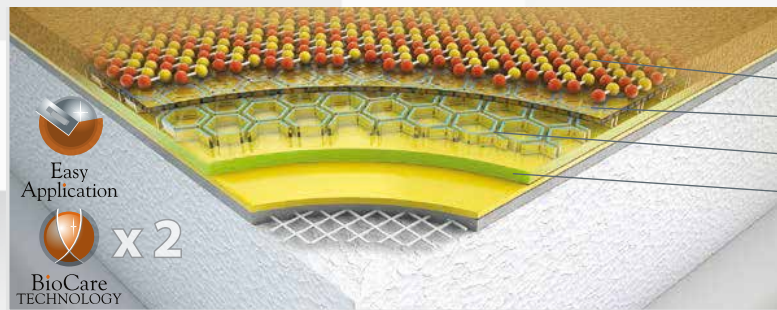
IBBTherm AT100

ACRYLIC TOPCOAT

The plaster made on the basis of acrylic dispersions, marble aggregates and fillers. The product contains refining agents and special wax dispersion preventing moisture penetration into the surface texture as well as facilitating plaster application. Acrylic plaster AT100 is designed to be applied either by hand or spraying method. It's suitable performing thin-coat decorative plasters on various mineral substrates used both indoors and outdoors.

Product features:

- easy application and finishing
- long lasting colour
- good adhesive properties
- resistance to deformations
- high resistance to biological hazards
- high quality coat
- high resistance to contaminations
- a wide range of colours



PLASTER SECTION

- High-quality acrylic resin
- Dual biocide system
- Wax dispersion
- Refining agents

Prime coat
Reinforcing coat
Polystyrene



Technical data:	
Application temp	from 10°C to 25°C
Drying period	approx 6-8 hours
Binding period	approx 48 hours
Colour	240 colours + 1451 NCS
Container	25 kg container

Provided technical data refers to temperature of +20°C and relative humidity of 60%

Efficiency:				
Grain coarseness	Hand application – (bark beetle or fleecy texture), use	Spraying application (fleecy texture)		
		Nozzle number	Pressure	Use
1.5 mm	2.0 - 2.5 kg/m ²	2 (5.5 mm)	2.1 - 2.5 atm	2.0 - 2.2 kg/m ²
2.0 mm	2.5 - 3.0 kg/m ²	3 (6.5 mm)	2.1 - 2.5 atm	2.3 - 2.5 kg/m ²
2.5 mm	3.3 - 3.7 kg/m ²	4 (7.0 mm)	2.1 - 2.5 atm	2.6 - 3.0 kg/m ²
3.0 mm	4.1 - 4.6 kg/m ²	4 (7.0 mm)	2.1 - 2.5 atm	3.1 - 3.3 kg/m ²

INSULATION SYSTEM WITH USE OF PLASTER AT100

ELEVATION	Insulation system	FOVEO TECH S2
	Adhesive mortar	Mortar for polystyrene PA 10
	Insulation material	Polystyrene
		Insulation anchors
	Reinforcing coat	Mortar for fibreglass mesh PMA 11
		Fibreglass mesh M 145 / M 165
	Prime coat	Prime coat AU10
	Plaster	Acrylic plaster AT 100

USE

Ready-to-use top coat render compound intended for manual or spraying performance of thin-layer, decorative renders within External Thermal Insulation Composite System (ETICS) IBB Therm and FOVEO TECH. Can be used on new and refurbished interior and exterior mineral substrates. Contains biocidal agents which prevent fungi, moulds and algae from development on plaster surface.

SUBSTRATE PREPARATION

The substrate must be even, dry, solid, dust and dirt free as well as free from any biological (fungi, moulds, mosses) and chemical aggression etc. All sorts of dirt must be removed by using water under high pressure. Old renders and paint coats with poor adhesion must be removed. Fill in holes with Fill in holes with Adhesive Mortar IBBTherm PMA 11 (max. to 6.0 mm in one coat), FOVEO TECH KS10/ KU 11 or a regular plaster mortar.

In order to reinforce substrates with poor adhesive properties, highly absorptive or chalky (i.e. leaving dust traces after palm rubbing), it's necessary apply IBBTherm AP10 or FOVEO TECH GA 10. If necessary, smooth the surface with Adhesive Mortar IBBTherm PMA 11. New cement or cement and lime plasters must be painted minimum 28 days after application whereas concrete after 3 months, within the insulation system the reinforced coat must be seasoned min. 3 days. All substrates must be stabilised as far as moisture is concerned and the curing process completed. Before plaster application the surface must be primed by IBBTherm AU10 or FOVEO TECH PA 10, (colour as close to the render colour as possible).

APPLICATION

Before use the whole content of the bag must be mixed carefully by taking advantage of a slow-speed agitator (driller) till obtaining a uniform consistency. If necessary, add a small amount of water (up to 1,5%). During spraying application the maximum water content should be up to 100 ml/25kg of plaster. The amount of water added should be the same for each container. An addition

of water may contribute to change of plaster properties and its colour. Do not interfere with compound content by adding cement, sand or other components.

In the event of manual application the plaster must be applied by stainless steel trowel and spread till obtaining a coat of grain thickness. Within 15 minutes after application it's necessary to carry out a desirable effect by a plastic trowel: dotted - by circular movements, whereas rustic - vertical, horizontal and circular movements, depending on desirable system of cracks. Do not use water during smoothening. The excessive material can be used subsequently after mixing.

Only dotted texture render can be used in the event of spraying method, grain thickness between 1,5 mm and 3 mm. Consequently, it's necessary to use a spraying kit recommended by the manufacturer in accordance with the following parameters: render of 1,5 mm thickness - nozzle no. 2 (5,5mm), render of 2mm thickness - nozzle no. 3 (6,5mm), render of 2,5 mm and 3 mm - nozzle no. 4 (7 mm). Recommended unit pressure: 3,5 -4 bar. The render stream must be sprayed perpendicularly 25 cm from the wall. The gun must be operated steadily on the whole surface of the wall. In order to avoid discolouration it's necessary to apply the render which holds the same batch number (expiry date and batch number on the container). Top coat renders which hold different batch numbers must be mixed before use. Work intervals must be scheduled beforehand (e.g. after work completion in corners and bends, under drain pipes, colour contacts etc.). Detailed information about the product can be found in Technical Data Sheet.

RECOMMENDATIONS

Use at the substrate and ambient temperature between +5oC and +25oC. Do not apply on hot substrate. During top coat render application and drying it's necessary to avoid direct sunlight, strong wind and rain. Protect the top coat render applied till complete curing by applying a foil or a thick protective mesh. Substrate and ambient temperature during application and over the course of

48 hours must not be lower than +5oC. Low temperature and high air humidity can extend the drying time. Clean the tools with water immediately after application. Fresh plaster dirt can be washed by water, whereas cured plaster remains can be removed mechanically only. The top coat render obtains its full strength properties 28 days after application. In case of interior application the area must be ventilated until the odour vanishes. Top coat render application within insulation systems of dark and intense colours (at light reflectance value (LRV) below 20%) should not exceed 10% of the surface plastered. Before commencing to perform the elevation it's necessary to carry out a compliance test of ordered texture and colour on a small surface.

Any suggestions regarding substandard features of the render and its colour must be reported immediately to the seller. Works must be carried out in accordance with principle construction rules, standards and HSE regulations. In the event of combining the product with other products, FFIL Śnieżka SA shall not bear any responsibility.

The purpose of the information herein is to provide optimal performance as regards render application. The manufacturer shall not be liable for any damages resulting from inappropriate use or purpose of the product, since weather conditions during application are beyond its control.

STORAGE

Store and keep in sealed containers. Protect against influence of frost and direct sunlight. Storage temperature: from +5oC to +30oC.

TOOLS

An agitator (driller), a trowel, stainless trowels, plastic trowels, plaster spraying kit

SAFETY POLICY

In the event of contact with eyes, rinse them with pure water immediately and contact a physician. The product must be stored in an area out of reach for children. Waste material and container should be forwarded for disposal.

IBBTherm ST300

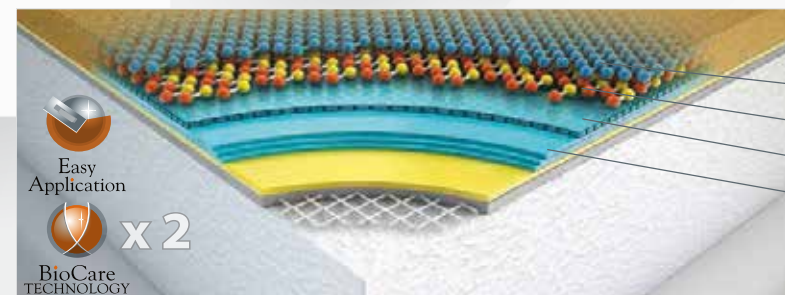
SILICONE TOPCOAT

A plaster based on silicone resin, high-quality synthetic resin, marble aggregates and fillers. It contains special refining agents. The product reaches the top parameters as far as unfavourable weather conditions, biological corrosion and contaminations are concerned. It's highly flexible and resistant to mechanical damage. It's characterized by high vapour-permeability and low water absorption. Silicone plaster ST300 is designed to be applied either by hand or spraying method. It's suitable for performing thin-coat decorative plasters on various mineral substrates used both indoors and outdoors



Product features:

- easy application and finishing
- long lasting colour
- good adhesive properties
- resistance to UV radiation
- high vapour permeability
- resistance to deformations
- high resistance to biological hazards
- high quality coat
- high resistance to contaminations
- a wide range of colours



PLASTER SECTION

- Silicone resin
- High-quality synthetic resin
- Dual biocide system
- Refining agents
- Prime coat
- Reinforcing coat
- Polystyrene

Technical data:	
Application temp	from 10°C to 25°C
Drying period	approx 8 hours
Binding period	approx 48 hours
Colour	240 colours + 1451 NCS
Container	25 kg container

³rovided technical data refers to temperature of +20°C and relative humidity of 60%

Efficiency:					
Grain coarseness	Hand application – (bark beetle or fleecy texture), use	Spraying application (fleecy texture)			
		Nozzle number	Pressure	Use	
1.5 mm	2.2 - 2.5 kg/m ²	2 (5.5 mm)	3.5 - 4.0 atm	1.9 - 2.3 kg/m ²	
2.0 mm	2.5 - 3.0 kg/m ²	3 (6.5 mm)	3.5 - 4.0 atm	2.2 - 2.4 kg/m ²	
2.5 mm	3.3 - 3.7 kg/m ²	4 (7.0 mm)	3.5 - 4.0 atm	3.0 - 3.5 kg/m ²	
3.0 mm	4.1 - 4.6 kg/m ²	4 (7.0 mm)	3.5 - 4.0 atm	4.0 - 4.4 kg/m ²	

INSULATION SYSTEM WITH USE OF PLASTER ST300

ELEVATION	Insulation system	FOVEO TECH S5
	Adhesive mortar	Mortar for polystyrene KS 10
	Insulation material	Polystyrene
		Insulation anchors
	Reinforcing coat	Mortar for fibreglass mesh KU 11
		Fibreglass mesh SW 145 / SW 165
	Prime coat	Silicone prime coat PN 30
	Plaster	Silicone plaster TN 30

IBBTherm MT100

MINERAL TOPCOAT

The plaster based on compound of white and grey cement, lime, white quartz sand as well as mineral additives. It's designed to be applied by hand upon various substrates made of: concrete, cement and lime, plaster cardboard panels used both indoors and outdoors. Mineral plaster MT100 is available in white or grey option to be painted by the following elevation paints: FA 10, FAT 15, FT 20, FSS 25 or FN 30.



Product features:

- good adhesive properties
- high coat durability
- high vapour permeability
- resistance to UV radiation
- high resistance to biological hazards
- resistance to temperature fluctuations



PLASTER SECTION

- Paint
- A compound of white and grey cement, lime, white quartz sand and mineral additives
- Refining agents
- Prime coat
- Reinforcing coat
- Polystyrene

Technical data:	
Powder density	approx 1.5 kg/dm ³
Period after opening	to 15 minutes
Use time	approx 1 hour
Binding period	approx 72 hours
Appl. temperature	from +5°C to +30°C
Colour	white, grey
Container	25 kg paper bag

Efficiency:	
Grain coarseness	Hand application (fleecy texture)
1.5 mm	approx 2.0 kg/m ²
2.0 mm	approx 3.0 kg/m ²

INSULATION SYSTEM WITH USE OF PLASTER MT100

ELEVATION	Insulation system	FOVEO TECH S1
	Adhesive mortar	Mortar for polystyrene KS 10
	Insulation material	Polystyrene
		Insulation anchors
	Reinforcing coat	Mortar for fibreglass mesh KU 11
		Fibreglass mesh SW 145 / SW 165
	Prime coat	Prime coat PA 11
	Plaster	Mineral plaster TM 10
		Acrylic prime coat GA 10/ Acrylic paint FA 10
		Acrylic prime coat GA 10/ Acrylic paint with Polymers Protection
	Paint coat	Silicone prime coat GT 20 / Silicate paint FT 20
		Silicone prime coat GN 30/ Silicate and silicone paint FSS 25
		Silicone prime coat GN 30/ Silicone paint FN 30

Primers are designed to enhance properties of porous, very absorptive mineral substrates such as cement, cement and lime, concrete and thin-coat minerals plasters, being the final coating as far as insulation systems are concerned.

They are used before application of facade paints or to dilute them. They penetrate the substrate thoroughly, even out its absorptiveness and enhance adhesion of top coats.

IBBTherm AP10

PAINT ACRYLIC PRIMER



IBBTherm SP30

PAINT SILICONE PRIMER

Technical data:	Acrylic primer AP10	Silicone primer SP30
Application temp.	from +5°C to +25°C	from +10°C to +25°C
Drying period	to 2 hours	to 2 hours
Use	to 10 m ² /L	to 10 m ² /L
Container	5 L	5 L
Suitable for the following paints	FA 10, FAT 15	FSS 25, FN 30

IBBTherm AP100

ACRYLIC PAINT



Acrylic paints are based on up-to-date recipes which consist of high-quality tetrapolymer resins, a full range of refining agents, hydrophobizing the coat as well as making it resistant to destructive ultra violet radiation. Additionally, Paint FAT 15 contains Polymers Protection – an additive decreasing the surface tension of the coat and contributing to increased resistance to contaminations, destructive influence of weather conditions and UV radiation. Used compilation of FLEXIFORMULA in Paint FA 10 results in excellent covering properties of painted surface, good adhesiveness to uneven substrate, durable coat and resistance to dynamic strain.

Technical data:	Acrylic Facade Paint AP100
Application temp.	from 5°C to 25°C
Drying period	2 hours
Binding period	28 days
Efficiency	to 10 m ² /L
Colour	239 colours + 1451 NCS
Container	container of: 4.5 L or 9 L



IBBTherm SN300

SILICONE PAINT

Silicone paints contain a unique additive – micro glass beads, which in combination with other specially designed components, make a unique coating – NANOSTRUCTURE, (Neostruktura) thanks to which the paints are able to reflect light significantly, diminishing negative heating effects of the painted surface. They do not attract contamination and show self-washing features. The paints have high vapour permeable properties and at the same time, they are resistant to water penetration. They are also characterized by high parameters in terms of adhesiveness, covering properties and application

Technical data:	Silicone Facade Paint SN300
Application temp.	from 5°C to 25°C
Drying period	2 hours
Binding period	28 days
Efficiency	to 8 m ² /L
Colour	239 colours
Container	container of: 4.5 L or 9 L

IBBTherm M145 & M155

FIBERGLASS MESH

Fibreglass mesh (E-Glass) M145 and M165 is a high-quality product of enhanced parameters which can be used within insulation systems of buildings, where the quality and easy application play a crucial role. As a result of highly flexible fibre, it is ideal while applying upon the wall, and facilitates mortar application. The meshes are recommended as a reinforcing material in **IBBTherm S** and **IBBTherm W** insulating systems. Mesh 165 is especially recommended while using mineral wool. Special features: **German quality**, high tearing resistance, special non-slip finish provides dimension stability, plasticity (aperture!).stability, plasticity (aperture!).



Product name	Mesh size	Substance	Measure unit	Quantity	
				1 roll	1 palette
Fibreglass mesh M145	4 x 5 mm, leno weave	145 g/m²	1 m²	50 m²	1650 m² (33 rolls)
Fibreglass mesh M155	4 x 4 mm, leno weave	155 g/m²	1 m²	50 m²	1650 m² (33 rolls)



External Wall Insulation & Render System

IBBTherm are the best, carefully selected by us, most cost effective external render materials on the market ! We describe below the most popular version of elevation done with acrylic render, white, dotted finish with grain thickness of 1.5 mm.

Estimation conditions:

- materials are delivered on site
- internal transport horizontal and vertical is included for the usual building site conditions
- labour included fitting light scaffolding up to 4m high
- calculation of materials includes an allowance for waste
- water, electricity, and small amount of materials are added with 1.5% rate calculated form basic materials

Sequence of operation:

- clean and prime the surface
- fix base metal track according to thickness of polystyrene sheets

- prepare adhesive – mix powder with water
- cut and glue polystyrene panels to the wall
- drill holes and fix polystyrene panels with plastic plugs
- prepare polystyrene joints with the special trowel to make an even surface
- fix PVC corners with mesh to the external corners and revals
- apply adhesive basecoat reinforced with fibreglass mesh on top of polystyrene panels
- prime basecoat with primer
- mix acrylic render in bucket
- apply render with the steel trowel
- work wet render with plastic trowel to receive decorative finish
- protect with dust sheet and foil or plastic against rain and sun

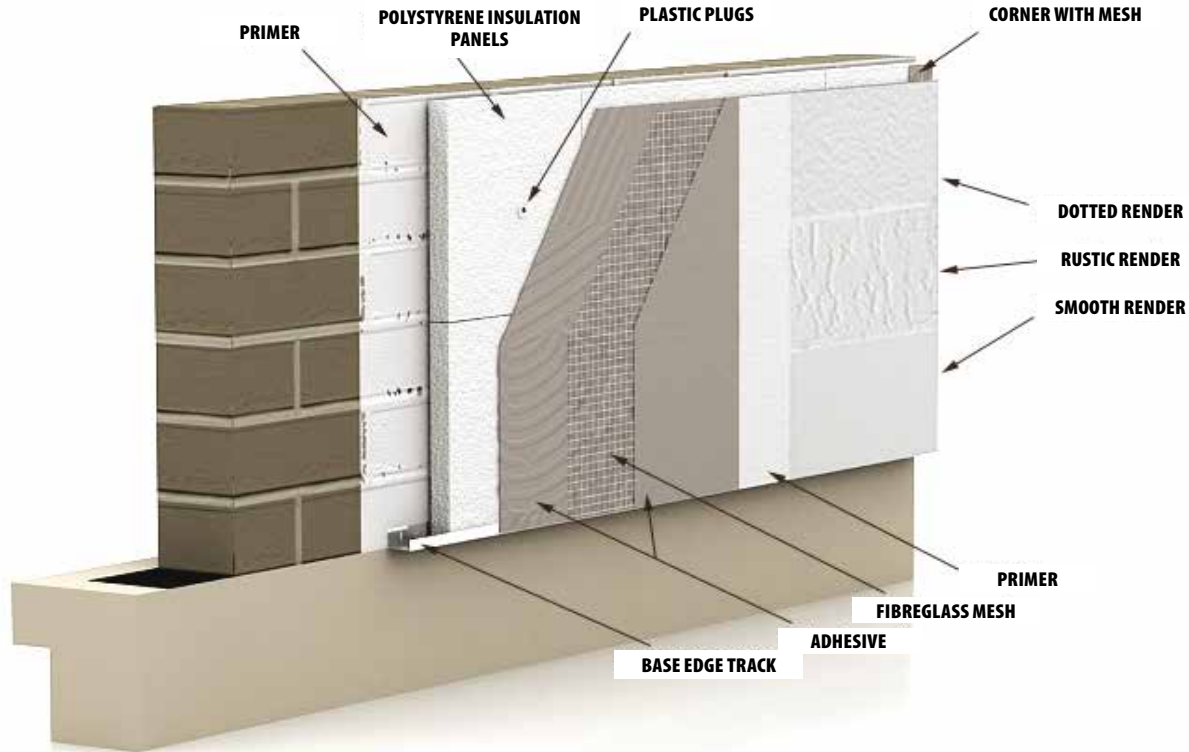
Coverage of materials for 1sqm topcoat acrylic render with insulation; system insulated with graphite polystyrene panels 5cm thick

No	Material	Unit	Price* excl VAT [pcs]	Norm for 1m² wall	Unit price excl. VAT [GBP]	Price excl. VAT for 1m² wall	Price incl. VAT for 1m² wall
1	IBBTherm AP 10 – acrylic primer	can 5l	£ 6.75	0.07l/m²	£ 1.35/l	£ 0.09	£ 0.11
2	Metal track 53/2500mm	pcs	£ 2.75	TBC eg.0.20m/m²	£ 1.10/m	£ 0.22	£ 0.26
3	Foamed polystyrene EPS 70-032 FACADE, graphite 5cm thick	1m²	£ 2.48	1.05m²	£ 2.48/m²	£ 2.60	£ 3.12
4	Fixings for polystyrene panels £1-10x90mm plugs	pcs	£ 0.10	6 szt/m²	£ 0.10/szt	£ 0.60	£ 0.72
5	PVC corner with mesh 2.50m	pcs	£ 1.40	TBC eg. 0.50m/m²	£ 0.56/m	£ 0.28	£ 0.34
6	IBBTherm PMA 11 - adhesive for glueing polystyrene panels and basecoat reinforced with fibreglass mesh	bag 25 kg	£ 6.25	8.0kg/m²	£ 0.25/kg	£ 2.00	£ 2.40
7	Fibreglass mesh 145g/m²	roll 50 m²	£ 19.50	1.135m²/m²	£ 0.39/m²	£ 0.44	£ 0.53
8	IBBTherm AU 10 - contact primer	bucket 25kg	£ 34.50	0.25kg/m²	£ 1.38/kg	£ 0.35	£ 0.42
9	IBBTherm AT 100 - acrylic top coat render dotted 1.5mm	bucket 25kg	£ 21.25	ca 3.0kg/m²	£ 0.85/kg	£ 2.55	£ 3.06
10	Additional materials 1.5%					£ 0.14	£ 0.16
Total						£9.27	£11.12*

* products IBBTherm available at above prices in all IBB Polish Building Wholesale branches – included the maximum 40% discount applies to IBBestimator PRO users and during promotion

No	Description	Labour hours	Rate excl.VAT [GBP]	Rate [GBP] per 1sqm excl.VAT	Rate [GBP] per 1sqm incl.VAT
1	Priming substrate and base coat surface before applying top cost render	0.066 labour/m²*	£ 14,-	£ 0.92	£ 1.10
2	Fixing metal track	0.237 l/m	£ 14,-	-	-
3	Glueing polystyrene panels	1.329 l/m²*	£ 14,-	£ 18.61	£ 22.33
4	Fixing corners with mesh	0.220 l/m	£ 14,-	-	-
5	Coating mesh with adhesive	0.611 l/m²*	£ 14,-	£ 8.55	£ 10.26
6	Applying top coat render	0.493 l/m²*	£ 14,-	£ 6.90	£ 8.28
Total		2.606 l/m²*		£ 34.98	£ 41.97

Attention: Attention: in our quotation we have only described positions marked *, the rest you have to calculate individually eg. fixing corners with mesh according to how many reveals there are on the elevation, it is also important that for reveals you have to increase the quotation, the same for scaffolding or colour render.



ibb

Adhesive Polystyrene panel Mesh Primer Render Plug

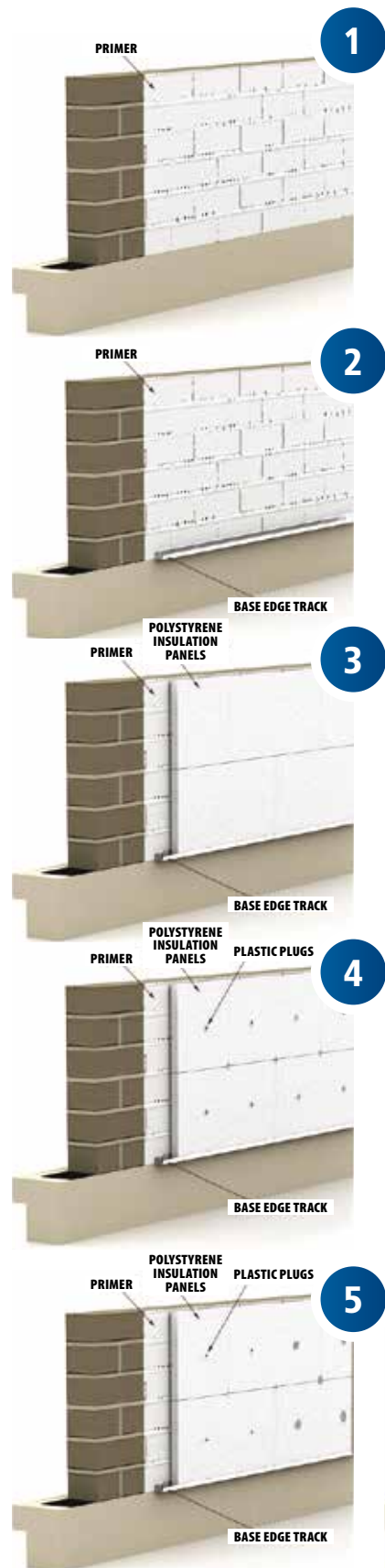


Cost of Materials for the most popular External Wall Insulation System with polystyrene EPS-70-032 graphite insulation 50mm thick, acrylic render - dotted, white colour, 1.5mm grain after the greatest discount level is **£ 9.27 net/sqm**



Attention!
Our norms and rates should be taken as a guide only and there are no obligations for anybody to adhere to them.; you have to take sole responsibility and apply your own rates to your quotations. Cost of materials can vary from prices shown on the manufacturers specification We cannot accept any responsibility for anyone using this information – you must make your own checks.

Important information regarding building elevation:



- while choosing metal edge strip, please mind that both thickness of polystyrene panels and thickness of adhesive are important
- apply adhesive around the edge of polystyrene panel and in the middle
- fix plugs only in the area where the adhesive is applied
- attention: it is not necessary to fix polystyrene panels with plugs when the elevation is a small area. Adhesive only will do the job
- in the UK you should cover the fixing screws with polystyrene plugs to protect against the cold bridge
- when preparing insulation surface, an adhesive layer, etc. should be done carefully and evenly; the adhesive surface should not be sanded – otherwise it is difficult to apply the render and get a good finish
- the thickness of one coat is only the thickness of the grain used in the render – you can not level the surface by just applying another layer of render
- the surface area of one level elevation should be done continuously from one side to the another without a break, by two people – one for applying the render and second one for making the decorative finish. If you allow part of a surface to dry before continuing it will leave ripples on the surface
- do not apply render during rain or bright sunshine
- if some render drops from the elevation during application – do not re-use it
- you can check the skills and experience of your builders by looking under the scaffolding for fallen render
- you can use a pre-coloured render but remember - if you use an acrylic external paint always wait 28 days
- you can paint after 24 hours but you must use a silicat external paint
- if you use a coloured render make sure it is an acrylic one
- for insulating polystyrene panels you can use 2-3 cm thickness but there is no matching edge metal strip to be found
- you can apply thin layer render on to old cement based render – but cleaning, priming and applying fibreglass mesh with adhesive is a must
- in some situations it is necessary to fit insulated rendering system with special buttons
- new render finishes should be protected against weather, especially rain, by using plastic sheeting – repairing damaged render can only be done by applying a new layer of adhesive with mesh and new decorative render

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Football News

NEWS 1

Liverpool sign Mohamed Salah from Chelsea for £34m

Former Chelsea winger has signed a five-year deal with Liverpool. He had been prime target for manager Jurgen Klopp after Salah almost joined them from Basle in 2014 before moving to Chelsea. Liverpool have already signed top scorer of England in Under-21, 19-year old striker Dominic Solanke from Chelsea will join them on 1st July.



NEWS 2

Arsenal confirm signing of Sead Kolasinac

Bosnia-Herzegovina defender will join Arsene Wenger's team on 1st July after his contract at Schalke expires. He has made over 100 appearances for the Bundesliga team. The 23-year old is on the free transfer and the first that Arsenal signed this summer.



NEWS 3

Watford confirm signing of Derby midfielder for £8m

Five-year-deal was confirmed for 22-year-old Will Hughes from Derby County who is currently playing with England Under-21 at the European Championship in Poland. He is the first signing made by the Premier League club since Marco Silva was appointed manager on 27th May.



NEWS 4

Alvaro Arbeloa - former Liverpool, West Ham and Real Madrid defender announced his retirement.

The 34-year-old has spent three years with Reds before returning to Madrid. He won one La Liga title and the Champions League twice before signing for Hammers last August. Arbeloa made more than 200 appearances in total between 2007 and 2017. In 2008 and 2012 he helped win the European Championship for his country and was part of World Cup-winning squad in 2010.



NEWS 5

Germany are the 2017 European Under-21 champions

Germany beat four-time champions Spain 1:0 in Poland, Krakow. It is their second crown, they last won tournament in 2009. Mitchell Weiser scored first and the only goal in 39th minute. It was a really well placed header - a goal of tournament.



IBB Polonia Football Club

June was a busy month for the club. We have taken part in two major tournaments; Magic Morlly International Cup and Sandgate International Football Festival. Two tournaments which are very well respected by the grassroots football due to their high standards of organisation and the very top level of football. The number of participants also highlights the level of these events, having around 16 teams per age group. Our boys attended the IBB Polonia camp earlier this month which prepared them very well for the two events, showing outstanding results throughout all our group ages:

Magic Morlly International Camp

- U7 RED – 5th Place
- U7 WHITE – 1st Place
- U9 – 6th Place
- U10- 3rd Place
- U11 – 3rd Place

Sandgate International Football Festival

- U7 RED – Reached the Quarter Final
- U7 WHITE- Reached the Quarter Final
- U9 – Group Stage
- U10- 3rd Place
- U11- 2nd Place

These results are outstanding, bringing an exciting opening to the upcoming season in September.

This month we have successfully received our Affiliation Number from the Amateur Football Alliance which resulted:

- Our club is insured on all grounds
- Our club committees and coaches are fully qualified
- The club can compete in the league and cups

We are now only waiting for a formal confirmation of our participation in the Harrow Combination and Harrow Youth League of our all teams. The club is very close to setting up another age group due to the high number of players.

The club promoted itself at an event at the Polish Saturday School of Tadeusz Kosciuszko in Ealing which brought a massive interest to the eyes of the audience who attended the event. There were around 300 to 400 people throughout the whole day. This month was very successful and brought many new faces and interested players to the club.



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JULY 2017

IBBTherm
External Wall Insulation System

NEW!

IBBTherm PMA11
POLYSTYRENE & MESH
ADHESIVE

£7.25 net
(RP £12.08 net)

NEW!

IBBTherm AT100
ACRYLIC TOPCOAT

£22.25 net
(RP £37.08 net)



2.5 m

**PVC CORNER
WITH MESH**

£1.45 net
(RP £2.42 net)

25 kg



2.4 m

**DRIP CORNER
PROFILE**

£3.95 net
(RP £6.58 net)

2.4 m

**WINDOW
PVC PROFILE 6mm**

£3.95 net
(RP £6.58 net)

50 m²

FIBERGLASS MESH

WHITE 145g/m²
£19.50 net
(RP £32.50 net)
YELLOW 155g/m²
£32.40 net
(RP £54.00 net)

1 sqm

**POLYSTYRENE
PANELS EPS-70
GRAPHITE 50 mm**

£3.00 net
(RP £5.00 net)

1 sqm

50*600*1200 mm
**KINGSPAN
KOLOTHERM
K5 WALLBOARD**

£8.95 net
(RP £14.92 net)



**PLASTIC PLUG
LIT 90 mm**

£0.10 net
(RP £0.17 net)

90 mm



**PLATE HOLDER
TD-60**

£0.10 net
(RP £0.17 net)

1 sqm

**POLYSTYRENE
PANELS EPS-70
WHITE 50 mm**

£1.88 net
(RP £3.13 net)

2.5 m

STOP BEAD P4

£1.45 net
(RP £2.42 net)

2.5 m

BASE TRACK
53mm/2.5m

£2.95 net
(RP £4.92 net)

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QUALITY TREATED **TIMBER**

PLYWOODS & OSB BOARDS*



47x50 mm



47x150 mm



47x75 mm



47x175 mm



47x100 mm



47x200 mm



47x125 mm



47x225 mm

* Various sizes available



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