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IBB Polish Building Wholesale

BUILDER

MAGAZINE

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Bathroom Waterproofing

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FROM EDITOR



Dear Readers.

Welcome to the March issue of our e-magazine which keeps you up to date with the fast paced construction industry. As the days finally get a little lighter, warmer and we move into spring, there will be more projects to take on. From the subcontracting growth report, we know that spring and summer months tends to be the busiest for builders. What do the warmer months hold for building activity this year? The Government's Brexit plans are putting pressures on EU nationals, while the construction industry is heavily reliant on migrant labour. According to the report by the Mayor of London, Sadiq Khan, only in London out of 350,000 construction workers 27% are from the EU. In order to fulfil the housing plans and sustain the development of the construction industry, the UK should ensure the access to the skilled EU migrant workforce, train more of homegrown labour and invest in modern construction technologies. More construction trends in our news updates about rising materials costs and construction industry forecast.

This issue continues with our monthly regulars of building technologies, materials comparison and monthly deals. Comprehensive article about bathroom waterproofing with the attached handy draft estimation for labour and materials costs for your bathroom waterproofing project. Valuable read - we are debunking few myths about waterproofing too. But that's not all, we have also prepared the introduction

to the sanitary plumbing and foul drainage, with the attached cost estimation. Plus, exclusively for our readers, our monthly deals on selected waterproofing products, drainage and Capricorn's UFH products.

What's else - there is plenty of important information included in builder education and regulations section- this month about Approved Document Q and Payment Terms. If anyone is attending EcoBuild on the 7-9th March, we highly recommend booking a place for free networking meetings. Great way to find new business opportunities. Be quick, registration closes on 3rd March.

IBB supports sport and more about our sponsorship activity inside. Last month IBB Polonia London VC got through to the English Volleyball Cup final. Updates on their achievements inside. Or maybe you are more into football? Have a look at recent activities of IBB Polonia London FC club.

Enjoy! And if you missed last month's issue, check it at www.ibbbuilder.uk

Magdalena Rosól
Editor

We are the winner ...



2016's Most Innovative Business Leaders



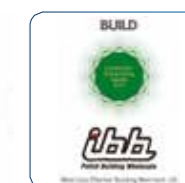
Most Trusted Building Merchant 2016



2016's Most Innovative Business



Finest in Business Awards 2016



Most Cost Effective Building Merchant UK 2015

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UCEM Academy

University College of Estate Management (UCEM) launched the online academy which offers a wide selection of training courses and CPD specifically developed for the real estate and construction sectors. Courses are available online what allows to complete the required Continuing Professional Development (CPD) hours per annum. CPD in Built Environment is becoming more crucial in the competitive construction sector and online academy allows to gain knowledge and complete the required CPD hours online with the minimal disruption to the working lifestyle. CPD is the requirement for members of RICS, the CIOB and other construction bodies.

UCEM Academy is working with the leading construction bodies and provide the range of short courses that meet the formal RICS-approved CPD training. The Academy offers insight videos presenting various roles available in the Built Environment and it is

the great tool for staff development and training.

Courses include amongst others: BIM for Cost Management, BIM for Construction Professionals, Managing Change- Construction Industry, Managing Project Costs, Competitive Tendering and more.



BOOK REVIEW

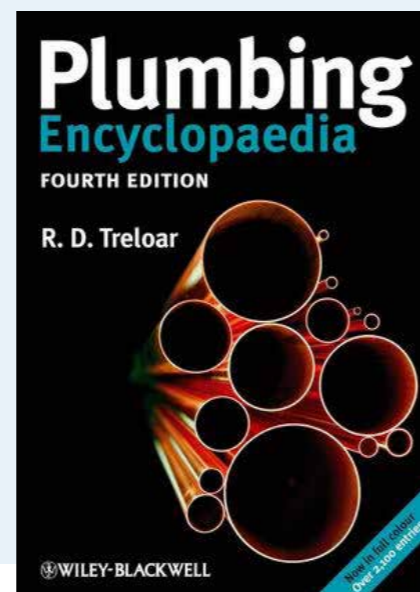
Plumbing Encyclopaedia (4th edition)

by R. D. Treloar

The fantastic reference book for quick, practical and comprehensive plumbing terms. It is written by the expert author within the plumbing trade. It enables to quickly find accurate information for specific aspects of the plumbing and clearly explains the terminology used by plumbers. Topics covered include:

- cold and hot water supplies drainage soldering and welding hot water heating radiant heating
- solar heating electrical work sanitation sheet weathering gas and oil supplies warm air heating
- steam heating air conditioning building science and many more

It combines illustrations, diagrams and descriptions to provides the reader with good understating of the plumbing terminology but it does not explain the plumbing principles and technologies. Useful especially for beginners in the plumbing trade.



Subcontracting Growth report

Bibby Financial Services in collaboration with construction industry specialists, The Vinden Partnership, in October 2016 conducted research of 250 subcontractors across the different trades in the UK. The subcontractor growth report offers analysis of the challenges and opportunities faced by subcontractors in 2017.

Bibby Financial Services is the UK's leading independent invoice finance specialist and a trusted provider of funding solutions to 7,000 businesses. Their services includes invoice discounting, factoring, export finance, asset based finance, lease finance, foreign exchange services, and specialist funding for the construction, recruitment and transport sectors. The Vinden Partnership (Vinden) is a multi-disciplinary firm of management consultants. It has a 22 year track record of providing innovative services to the construction, engineering, banking, asset based lending and insurance sectors.

The construction sectors appear to rebound after the initial slowdown following the EU referendum vote and subcontractors are not seeing Brexit as the negative impact on their businesses. According to report commercial contracts account for the greatest opportunity to secure works. Given the Government's priorities in the construction sector and the Chancellor's incentives, housebuilding is seen as the second great opportunity for subcontractors, while amongst others are industrial contracts, residential projects, infrastructure projects or local authority contracts. It is essential to note that in the current economic situation the inflation and the weaker pound could lead to price increases what might have an influence on housebuilding in the months ahead. It is still uncertain what impact Brexit will have on real estate market and housebuilding sector. According to research, only 22% of

subcontractors benefits from the infrastructure contracts. Amongst concerns raised by subcontractors, there are poor payment practices, rising costs of materials, unstable economic situation or shortage of skilled labour.

The report key findings in the following categories

Opportunities - Report shows that the greatest opportunities for subcontractors are in commercial contracts 45% and housebuilding 24%, while industrial contracts account for 9%. 22% benefit from national infrastructure projects. Over half of subcontractors believes that contracts with local authorities are the most beneficial to the construction sector. Seasonality of building works is visible with contracts on commercial projects more likely to be undertaken in summer months, while the number of domestic jobs increases in winter and spring.

Contracts and support areas - Report indicates that over third of subcontractors 38% find construction contracts too complicated to understand. While

19% says, they don't thoroughly check contracts before they sign them and 27% require support in reviewing contracts. 35% of subcontractors would benefit from support with employment law and legislation, while 31% would like help in tendering for national contracts.

Current activity and trends - On average 40 new contracts are taken on each year, and the average value of a contract is £205,077. The report indicates that subcontractors wait 42 days for payment from main contractors.

Challenges and concerns - According to the research over half believe they must accept terms and conditions required by main contractors or risk losing work and over half say that Brexit will not impact their business. 27% say that late payments are the biggest concern with skills shortages, the health of the UK economy and cash flow also seen as problems. On average, firms have written off £50,772 in bad debt over the past three years.

Source: www.bibbyfinancialservices.com



Rising costs of materials

UK construction sector prepares for rising of import costs as the start of Brexit negotiations threatens to lead to further depreciation of the sterling. This means the profit margins might be squeezed and the higher costs will be paid by the customers. Higher prices of materials are expected in the months ahead. The research by the Federation of Master Builders reveals that 70% of the 232 UK construction businesses have already recorded an increase in material prices after the EU referendum vote. The significant amount of all building materials is imported, and the rising cost of inflation puts pressures on the construction businesses.

Bricks and timber are the latest products hit by the lower value of the sterling. Prices for other building materials rises to 35% and prices of loft insulation, plasterboard and chipboard are growing at their fastest rate for 25 years.

The release of the Construction Products Association's (CPA), latest State of Trade survey, highlighted the issue of rising costs surrounding raw material prices driving inflation, with a large majority of light-like insulation and lighting (88%) and heavy-like steel and bricks (78%) manufacturers feeling the effects. With increasing cost pressures forecast to affect margins over the next 12 months, there is an ongoing debate as to whether sustained domestic demand can continue the growth that the sector has experienced in 2016. CPA's survey is conducted from data supplied by CPA's members, members of Build UK, the Civil Engineering Contractors Association, the Federation of Master Builders and the National Federation of Builders.

Commenting on the findings from the CPA release, Helen Wheeler, Managing Director of Construction Finance at Bibby Financial Services said: "There is no hiding the fact that the impact of the Brexit vote is starting to impact key sectors in the UK economy. Rising costs, in particular, are beginning to be felt by many, and subcontractors in the construction industry are certainly not immune.

"In our recent Subcontracting Growth report, a third (33%) of subcontractors indicated the cost of raw materials or labour costs as threats to their business over the next twelve months. However, overall, the majority (51%) of subcontractors do not see Brexit having a direct impact on their business.

"To stave off the potential impact of Brexit, it is vital that the construction industry continues to receive support and invest-

ment from the government and commercial developers. Almost two thirds (65%) of subcontractors generate revenue from housebuilding, with a third attributing more than quarter of their revenue to the area.

"The government started off the year by announcing 14 new garden villages, as part of a drive to deliver 200,000 new homes. However, it is important that these, and other house building plans, do not get held up by red tape and move forward swiftly to deliver the impetus that the industry needs."

An increase in sales, output and workloads were all reported during the quarter but forward-looking indicators suggest the outlook for building activity during 2017 has worsened. The latest statistics also highlighted a skills shortage affecting key on-site trades with main contractors reporting shortages of carpenters and plasterers at their highest in nine years.

Brian Berry, Chief Executive of the Federation of Master Builders said: "Rising material prices and growing skills shortages dampened growth among

construction SMEs in the final three months of last year. The optimism that we saw from small construction firms during most of 2016 has now dropped off because of growing concerns about rising costs. The pledge from the Government that it will focus on finding ways to boost smaller scale house builders is therefore timely as it's an area that is ripe for growth and could help counteract the risk of stagnation within the SME part of the construction industry."

Key survey findings include:

- 38% of main building contractors, on balance, reported that construction output rose in the fourth quarter of 2016 compared with a year ago
- A balance of 14% of specialist contractors reported a rise in output during Q4
- 11% of civil engineers, on balance, reported an increase in workloads during Q4
- On balance, 12% of SME contractors reported increased workloads in Q4 compared to three months earlier
- Main contractors reported a decrease in

orders in private housing, public housing, private industrial and private commercial

- 12% of SMEs reported an increase in enquiries in Q4, on balance, but 38% of specialist contractors reported a decrease
- 19% of civil engineering firms reported an increase in new orders in Q4, on balance
- Overall costs increased for 88% of civil engineers contractors, whilst 75% of main contractors, 78% of heavy side manufacturers and 88% of light side manufacturers reported raw materials costs rose in Q4
- 71% of main contractors reported difficulties recruiting carpenters, 67% for plasterers and 40% for bricklayers in Q4.

To view Subcontracting Growth report visit www.bibbyfinancialservices.com

For more information check Construction Trade Survey - 2016 Q4 at www.constructionproducts.org.uk



Construction Industry Forecast

The CITB's Construction Skills Network (CSN) report is the UK's most comprehensive construction forecast. The latest predicts growth of 1.7% over the next five years, with 179,000 jobs to be created – a better outlook than was predicted immediately after the EU referendum. However, it still represents a significant slowdown from last January's report, with a reduction in output growth down from 2.5% and in the number of new jobs by 53,000.

The new 2017-2021 forecast suggests the fortunes of the post-Brexit construction industry are heavily dependent on three huge projects – Hinkley Point C and Wylfa Newydd nuclear power stations and High Speed 2 – starting main works on time. Infrastructure represents a massive 45% of all construction growth over the next five years. Private housebuilding is the only other sector performing strongly, with predicted growth of 2.2% each year.

The CSN report shows there will be job opportunities particularly for carpenters (+3,850 per year), electricians and insulators (+2,250), process managers (+2,150) and a range of IT and other technical workers (+5,240).

There is a very varied picture across the UK, with Wales predicted to grow by 6.2%, and Scotland to decline by -0.4% each year. London remains a strong performer, growing by 2.4% each year, with employment growing by 6.6%. Wales' forecast growth of 6.2% – more than three times the national average – is largely attributable to the

start of work at Wylfa and a series of major road improvements. Scotland's slowdown is due to major projects such as the Queensferry crossing and the M8 motorway coming to an end. In Northern Ireland, annual growth is expected to almost match the UK outlook at 1.6%. In England, the South West (3.1%), the North West (2.5%) and the South East (2.2%) are expected to perform well. For the remainder of the English regions growth is predicted to range between 1.3% in the West Midlands to -0.1% in the North East.

Sarah Beale, Chief Executive at CITB, said: "While we are forecasting slower growth for our industry than we were last year, employers will still be creating tens of thousands of new jobs. We will be working with employers to attract new talent into our industry and to train them for rewarding careers in the sector."

"While we have factored Brexit into this forecast, there remain many unknowns to life after leaving the EU. We will be working with our industry to understand what it means for our migrant workforce and what we must do to attract and grow more of our own."

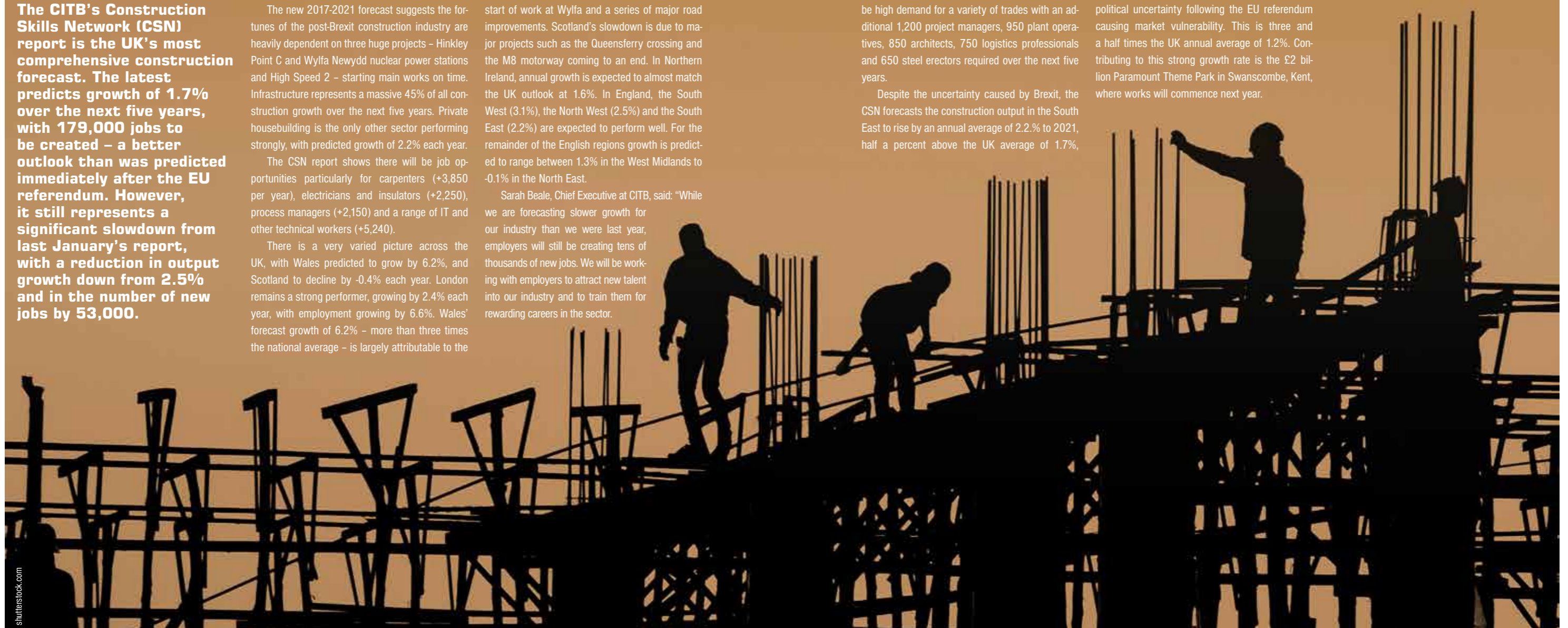
According to CITB's annual Construction Skills Network (CSN) report, twenty thousand new construction workers will be needed in the South East over the next five years. The forecast predicts an average annual requirement of 3,940 new recruits in the South East until 2021, more than double the number forecasted in last year's report. By 2021, it's expected that construction employment in the the region will reach a record high of over 412,000 – more than 2008's pre-recession peak. There will be high demand for a variety of trades with an additional 1,200 project managers, 950 plant operatives, 850 architects, 750 logistics professionals and 650 steel erectors required over the next five years.

Despite the uncertainty caused by Brexit, the CSN forecasts the construction output in the South East to rise by an annual average of 2.2% to 2021, half a percent above the UK average of 1.7%,

thus the demand for skilled workers in region is increased. Infrastructure is projected to see the strongest growth, with a predicted average of 6.3% increasing each year. There are numerous schemes under the government's National Infrastructure Plan that are contributing to this growth including £104m worth of work on the M20's new junction 10a and associated link road to the A2070. Private house building looks set to increase by 2.1% per annum on average to 2021 as a knock-on effect of infrastructure developments. Horsham is set to build 10,000 new homes and a new housing project in Ebbsfleet, Kent will see a further 15,000 homes for the area. According to the CSN, commercial building in the South East is predicted to see an annual average growth rate of 4.1%, despite political uncertainty following the EU referendum causing market vulnerability. This is three and a half times the UK annual average of 1.2%. Contributing to this strong growth rate is the £2 billion Paramount Theme Park in Swanscombe, Kent, where works will commence next year.

Andy Barron, Partnerships Manager at CITB, says: "The outlook for construction in the South East is looking very good with a string of big infrastructure and housing projects boosting growth. "This does mean there are a huge number of jobs up for grabs with opportunities in a range of traditional trades and professional roles to help build these exciting projects. "The next five years is set to be an exciting time for the construction sector. I encourage anyone thinking about a career in construction to check out Go Construct, the first ever industry-wide online platform. It provides all you need to know about career opportunities and the wide range of roles available in construction and the built environment."

(Source: CITB)



CIOB and Stronger Together

launch toolkit to help construction industry tackle modern slavery

The Chartered Institute of Building (CIOB) and industry alliance Stronger Together have launched a best practice toolkit to help construction tackle modern slavery in its global supply chains. It is estimated that there are over 45 million people subject to modern slavery in the world today, what the UK Prime Minister Theresa May described as "the great human rights issue of our time".

This new guidance from the CIOB and Stronger Together can be downloaded for free from

www.stronger2gether.org. The toolkit is part of a specialist, in-depth industry programme supporting construction companies in tackling modern slavery with practical resources and training based on the UN Guiding Principles on Business and Human Rights framework. This guidance helps businesses to comply with the UK Modern Slavery Act requirements. The UK Modern Slavery Act came into force in 2015 and requires UK organisations with a turnover of more than £36 million to publicly report on how they are dealing with human rights issues in their supply chains.

The programme follows on from a CIOB report launched in July 2016, Building a fairer system: tackling modern slavery in construction supply chains, which examined how workers are abused in ways such as forced or bonded labour, late payment, unsanitary living conditions, unfair de-

ductions from wages, withheld passports, loss of freedom of movement, lack of representation, violence, intimidation and physical abuse.

The construction sector is highly vulnerable to modern slavery. Anti-Slavery Commissioner Kevin Hyland OBE said: "Workers within the construction sector are at risk of abuse and exploitation as traffickers and slave masters target the vulnerable. This is modern slavery, something we cannot shy away from, and I am pleased that construction companies have started to take ownership of this issue. "I would like to see more companies work together and speak openly about the crime of slavery in supply chains. Challenges must be shared and not hidden, for only then can we protect people and prevent the crime."

According to CIOB Chief Executive Chris Blythe OBE "CIOB's core values are founded on the principles of ethical business behaviour. Firms that take up and implement this toolkit demonstrate their commitment to ending modern slavery, wherever it may occur. The toolkit and wider programme are there to help raise awareness of modern slavery, identify exploitation and then provide the support for businesses to deal with it responsibly through guidance and good practice."

"We encourage every construction company to be proactive about mitigating the risks of modern slavery in their own operations and supply chain. Commitment is the first step. We will help businesses that want to be leaders in the industry to turn that commitment into action by providing a collaboration platform and support network, bringing together clients, contractors, subcontractors and labour providers, and providing them with pragmatic guidance and resources" says David Camp, Programme Lead, Stronger Together.

[1] 2016 Global Slavery Index:
<http://www.globalslaveryindex.org/findings>



stronger together

tackling hidden labour exploitation

Are you being forced to work when you don't want to?

Do you have to pay someone money to give you work?

Are you being forced to live in accommodation against your will?

Is someone controlling your identity documents or bank account?

Is someone threatening or intimidating you or your family?



Czy jesteś zmuszany/ zmuszana do pracy wtedy, kiedy tego nie chcesz?

Czy musisz płacić komuś w zamian za otrzymanie pracy?

Czy jesteś zmuszany/ zmuszana do mieszkania w lokalu wbrew swojej woli?

Czy ktoś ma kontrolę nad Twoimi dokumentami identyfikacyjnymi lub rachunkiem w banku?

Czy ktoś grozi Tobie lub Twojej rodzinie?



Ste násilím prinútený pracovať?

Musíte niekomu platiť, aby vám dal prácu?

Ste nútený žiť v danom ubytovaní proti vlastnej vôli?

Kontroluje niekto vaše osobné údaje alebo bankový účet?

Vyhráža sa alebo ztrašuje vás alebo vašu rodinu niekto?



Você está sendo forçado a trabalhar quando você não quer?

Você precisa pagar a alguém dinheiro para conseguir trabalho?

Você está sendo forçado a viver em instalações contra a sua vontade?

Alguém está controlando seus documentos de identidade ou a sua conta bancária?

Alguém está ameaçando ou intimidando a você ou a sua família?

YES? TAK? ÁNO? SIM?

GET HELP! POSZUKAJ POMOCY! VYHĽADAJTE POMOC! PEÇA AJUDA!



Tell a trusted manager or worker representative or call



Report it to the Gangmasters Licensing Authority on 0800 432 0804 or Modern Slavery Helpline on 0800 0121 700 or at <https://modernslavery.co.uk/contact.html>. Call the Police in an emergency on 999, or 101 if it is not urgent.



For personal help and support if you are a victim - Call Migrant Help on 07766 668781 or the Salvation Army on 0300 303 8151.

www.stronger2gether.org



CITB launches biggest-ever

Levy consultation

The Construction Industry Training Board (CITB) is embarking on the biggest consultation the organisation has ever undertaken, with all in-scope employers being asked to give their views on the Levy proposal for 2018.

The Levy is designed to be fair to all employers, and generate enough funding for developing the skills that the industry says it needs. The 2018 proposal would see the Levy reduce from 0.5% to 0.35%, with net CIS payments for subcontracted workers remaining at 1.25%.

Up to 70,000 employers from across the sector, large and small, federated and non-federated, from England, Scotland and Wales are being asked to take part in the consultation, which has been launched to get industry's views on the Levy

proposal. At the same time, CITB will share with employers its future offer from 2018 - including improvements to the Grants Scheme. Nationwide workshops and dedicated webinars have also been launched to give employers more insight and get feedback.

The consultation will run until May 2017 and all responses from employers will be used to inform the final levy proposal and to be put to industry from July.

In mid-2017, independent market research will be conducted with thousands of non-federated in-scope employers who pay the Levy. This is to find out their views as to whether they consider the final Levy proposal necessary to encourage adequate training in the industry. The final result is expected in October.

Sarah Beale, Chief Executive at CITB, said: "This is a vital consultation, because we want to know what the whole industry thinks of our Levy proposal and future plans.

"This proposal has been developed by an industry-led working group, with input from a whole range of employers. We believe this proposal offers good value, and supports a plan to deliver real impact for our industry over the next few years. But this Levy proposal and the way we are improving CITB must work for all, particularly the smaller employers which dominate our industry, so it's critical that as many as possible have their say.

"There are lots of different ways to take part - by going to a consultation event, joining a webinar, or simply rating our current proposal on your tablet or phone. It needn't take more than a few minutes to understand the offer and let us know what you think. So please take part. It's your industry, and your CITB, so have your say."

Visit the dedicated part of CITB's website
www.citb.co.uk/levy-2018

International B2B Matchmaking ECOBUILD 2017

Don't miss and sign up to a pre-arranged one-to-one networking meetings. Register by 3rd March!

During Ecobuild, the world's biggest exhibition for sustainable construction, there will be free-to-attend networking meetings. On Wednesday, 8th March, Enterprise Europe is organising matchmaking event with the pre-arranged meetings to enhance the opportunities for specifiers, suppliers, contractors, distributors to discover new and innovative products and services from the international marketplace and a chance for product manufacturers, service providers, sub-contractors to meet construction professionals, such as: architects, contractors, distributors, agents, builders' merchants, research centres, universities.

Sectors covered:

- ENERGY EFFICIENCY BUILDINGS
- COMPETITIVE LOW CARBON ENERGY
- CIRCULAR ECONOMY
- RESOURCE EFFICIENCY
- SMART CITIES AND COMMUNITIES
- NATURE BASED SOLUTIONS

Get your free entrance to the Ecobuild online by registering on www.ecobuild.co.uk. The visitor badge will also give you access to the co-located Kitchen & Bathroom Design London exhibition www.kbdesignlondon.com

To attend one-to one meetings register and submit your collaboration aims and business description by 3rd March. The more interesting profile, the more invites. Send the meeting requests to selected participants (meeting requests are treated as accepted as long they are not declined) and receive meeting schedule by email. On a day the updated schedule of meetings will be provided with time and table numbers. Networking is the perfect way to meet potential co-operation partners. Good luck!

07-09 March 2017, EXCEL London

Location: Stand F225

For details visit: www.ecobuild.co.uk



Payment Terms

The Prompt Payment Code (PPC) sets standards for payment practices and best practice and is administered by the Chartered Institute of Credit Management (CICM). Compliance with the principles of the Code is monitored and enforced by the Prompt Payment Code Compliance Board. The Code covers prompt payment, as well as wider payment procedures. The Prompt Payment Code is administered by the CICM on behalf of the Department for Business, Energy and Industrial Strategy (BEIS). It currently has more than 1,800 signatories, with each signatory committing to best practice in the fair and equal treatment of suppliers, many of whom are smaller businesses. The Chartered Institute of Credit Management (CICM) is Europe's largest credit management organisation.

Signatories to the Prompt Payment Code agrees to:

- Pay suppliers on time
- Give clear guidance to suppliers
- Encourage good practice
- Undertake to pay suppliers within a maximum of 60 days (in line with late payment legislation requirements), to work towards adopting 30 days as the norm, and to avoid any practices that adversely affect the supply chain

New measures to support the Prompt Payment Code (PPC) and drive a culture of better payment practice have been confirmed in a letter to PPC signatories from Margot James, Minister for Small Business and Philip King, Chief Executive of the Chartered Institute of Credit Management (CICM).

The letter highlights the significant success of the Code to date, and in particular highlighting the challenges against Code signatories that it says have been 'hugely successful in achieving fast settlement of invoices, creating dialogue between parties, improving contract terms, and providing

constructive assistance welcomed by suppliers and signatories alike'.

The correspondence also confirms the future appointment of a Small Business Commissioner to provide help and advice to business, including on achieving prompt payment, and the Statutory Duty to Report for large businesses to report on payment practices that comes into force from 6 April 2017. Further strengthening of the Code will follow the implementation of the Duty to Report measures.

The authors of the letter confirm that signatories should be paying within 30 days where possible and that this should increasingly be the norm. The Code Compliance Board will not be enforcing 30 day terms but states that paying invoices within 60 days will be a requirement unless there are exceptional circumstances that will be considered on a case by case basis. An example of 'exceptional circumstances' might be where a company is able to demonstrate that it applies different terms to the benefit of their smaller suppliers.

The Minister says that: "Prompt payment can make all the difference to small businesses, boosting their cashflow and allowing them to invest in growth for the future. Although we have seen some progress, there are still too many business owners across the country who have not been paid on time by their customers.

"We need a culture change to stamp this out and the Prompt Payment Code continues to play an important role in bringing this about, alongside a package of measures taken forward by government and industry. The businesses signed up to

the Code commit to demonstrating the gold standard of payment practices and it's great to see so many of Britain's leading household names on the list."

To apply to become a signatory to the Prompt Payment Code complete the form at www.ppc.promptpaymentcode.org.uk and provide references. Referees will be contacted to confirm their payment experience and, subject to confirmation that you pay promptly, your organisation will become an approved signatory to the Prompt Payment Code.

Construction Supply Chain Payment Charter

The aim of the Payment Charter is to reach 30 days standard payment terms for the construction industry and to liquidate retentions by the 2025.

It promotes the fair and transparent payment process and collaborative work culture. The Payment Charter applies to all parties to construction contracts and by becoming its signature parties agree to apply the fair payment commitments across the supply chain, to be assessed for the compliance with the set of key performance indicators (KPIs) and to consider the performance of its supply chain against KPIs. To become the signatory to Construction Supply Chain Payment Charter it is necessary to be a signatory to the Prompt Payment Code.



Some of commitments include, amongst others:

- obligation to make correct full payment when due for work carried out in accordance with the contract
- payment in electronic form
- obligation to not deliberately withhold or delay payment
- ensure that payments are made within 45 days from the end of the month when work was carried out (from January 2018 within 30 days)
- resign from retentions by 2025
- obligation to issue pay late notice as soon as possible, no later than 7 days before payment deadline
- obligation to process variations as soon as possible and fairly
- transparent and collaborative approach for dispute resolution

For more information visit www.promptpaymentcode.org.uk/cscpc.htm

Source: www.promptpaymentcode.org

What is Approved Document Q?

On 1st October 2015 the Part Q of the Building Regulations came into effect to cover the protection of entry points to any new building. Contractors must ensure all steps are undertaken to prevent unauthorised access to all new houses and existing buildings converted into houses.

Part Q sets out standards for doors and windows which provide access into a building from outside, into parts of a building containing flats from outside and into a flat from the common parts of the building. All doors and windows are required to meet the security requirement PAS24:2012 or equivalent. PAS24:2012 requires doors and windows to pass cylinder and hardware attack test and comply with European security measures.

Part Q states: "Reasonable provision must be made to resist unauthorised access to any dwelling and any part of a building from which access can be gained to a flat within that building."

The regulation means that easily accessible doorsets, windows and rooflights are now required to be tested to PAS 24 standard or equivalent. It should be noted that Part Q doesn't apply to work started before 1st October 2015 or work subject to a building notice, full plans application or initial notice submitted before 1st October 2015 provided the work started on site before 1st October 2016.

The Approved Document Q ensures that greater levels of security are in place to protect new homes. Homebuyers are advised to check if their new home meets doors and windows part Q standards, while

existing homeowners are recommended to check if the entry points to their home are protected, resisting physical attack by a casual or opportunistic burglar. So if you are currently looking to buy a new home then make sure you ask if your doors and window meet Approved Doc Q.

Installation of the secure doorset:

- Frames should be mechanically fixed to the structure of the building in accordance with the manufacturer's installation instructions.
- Lightweight framed walls should incorporate a resilient layer to reduce the risk of anyone breaking through the wall and accessing the locking system.

The resilient layer should be timber sheathing at least 9mm thick, expanded metal or a similar resilient material. The resilient layer should be to the full height of the door and 600mm either side of the doorset.

Installation of the secure windows:

- Frames should be mechanically fixed to the structure of the building in accordance with the manufacturer's installation instructions.

The Secured by Design

The Secured by Design (SBD) is the national police crime prevention initiative which aims to enhance the cooperation of police and construction industry specialists to exceed the security requirements stated in the Building Regulations by reduction of crime through design and other approaches. Secured by Design encourage planning authorities, building control, developers, contractors, designers and those undertaking major or minor property refurbishment, to adopt crime prevention measures.

SBD is "Designing out Crime" by:

- working with planners and developers at the design stage to include security into the built environment such as natural surveillance, landscaping and lighting
- encouraging manufacturers of products such as doors and windows, to meet 'police preferred specification'.

This means that products are not only tested to

the minimum building requirements PAS24 by the manufacturer but also that they have attained third-party certification from a UK Accreditation Service (UKAS) accredited independent third-party certification authority.

A national network of 'Designing Out Crime Officers' based in Police Forces across the UK is liaising with architects, local authority planners, developers and builders at the planning stage to ensure that new developments and refurbished properties would benefit from police crime prevention techniques. The SBD police accredited door or window could keep a burglar out for 15 minutes, what increase the chances that the burglar will be spotted and police called.



Secured by Design National Building Approval (SBD NBA) will provide the accredited developers with a route to compliance with Approved Document Q. by conducting all relevant assessments on behalf of the developer to issue a certificate of conformity with Approved Document Q.

For more information about SBD NBA please contact us at sbdnba@acpo-sbd.co.uk

For information and advice on how to build to Secured by Design specifications visit www.securedbydesign.com

(Source: Building Regulations, SBD)



MANUFACTURER OF EQUIPMENT
FOR HEATING SYSTEMS



FLEXIBILITY
IN CONFIGURING
SUBASSEMBLIES



MANUFACTURER OF EQUIPMENT
FOR HEATING SYSTEMS



MANIFOLDS

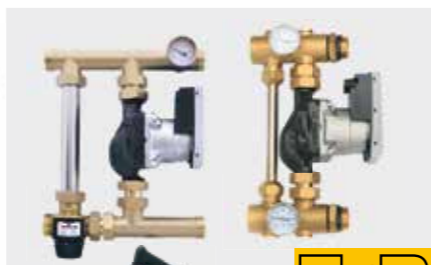
FOR RADIANT AND SURFACE
HEATING SYSTEMS



5-LAYER PIPE PE-RT/EVOH/PE-RT
FOR SURFACE HEATING AND COOLING



CABINETS FOR SURFACE
AND RADIANT HEATING MANIFOLDS



MIXING
SETS

ONLY
components
produced by us!



ALUPLATE HEATING PLATES
FOR MOUNTING FLOOR HEATING
IN A DRY INSTALLATION SYSTEM



TOOLS
FOR PIPE PREPARATION



NEW

CapriFloor
STAPLE GUN

We strive for perfection

Capricorn S.A. is a truly Polish company with tradition, which from a small family business in less than a dozen years has evolved into a modern management plant. For over twenty years we provide comprehensive solutions for our customers. Our actions are based on long experience and excellent knowledge of sanitary and installation industry.



Best quality and safety first

We offer products from plastic, brass and stainless steel as well as complete underfloor heating systems. A feature that distinguishes our products is the unusual care of details and comfort of use already at the design stage. The functionality and efficiency of our products are tested by specialists of technical and industrial design institutes from several major universities in Poland. The safety of our products is ensured by our project team consisting of engineers, designers and quality specialists as well as by independent research laboratories in Poland.



Still growing

Last decade was the time of significant changes and dynamic growth of our company. We have invested in development of new technologies and modernized our machinery. According to all that changes we were able to extend our offer with new products. Today we employ over 300 people and we produce several hundred components and devices for heating and sanitary systems.



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SALES OFFICE: +48 507 029 763, +48 74 8503 546 e-mail: sales@capricorn.pl
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QUALITY DRYWALL

Regular



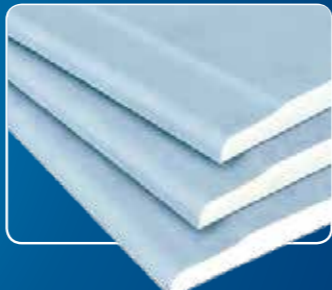
Waterproof



Fireproof



Soundroof



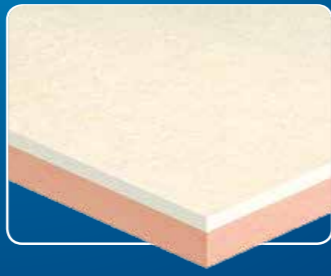
Vapourshield™



Thermal Laminate



Kooltherm Insulated



Cementboard



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Unit 24, Piccadilly Trading Estate,
Manchester M1 2NP
0161 375 1210
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The Guide to



Bathrooms Waterproofing



Bathrooms are exposed to the significant levels of moisture. The bathroom waterproofing is essential to avoid leakages and damages to structural parts. It prevents moisture damage in the substrate. However, poorly installed waterproofing can cause same problems as no waterproofing at all. In this guide, we will discuss some myths connected with the bathroom waterproofing. To avoid future problems and costs, it is essential to choose the appropriate products and seal the bathroom properly. Is sealing the base enough to protect the bathroom and what are the wet and damp areas? How to complete the set of products necessary to seal the bathroom and when do we have to use insulating mats?

We can advise treating a bathroom as a wet room to ensure the water sealing is 100% effective. The wet room is the fully tanked room with the full barrier to water. It means that water will not penetrate outside the wet room and the water vapour that condenses on walls and floors will not cause any damage. The tanked room provides a fully watertight seal beneath floors and walls what allows to install the walk in shower or similar.

Building Regulations - Bathroom and Wet Rooms It is not required to obtain the building regulations approval for renovating a bathroom or converting it into a wet room. However, if there

are any significant changes to the building structure e.g. extension with a wet room or new drainage, it is necessary to consult a building regulations controller before installation.

Ventilation - Due to the presence of heat and moisture bathrooms and wet rooms need to be properly ventilated to ensure proper airflow and energy efficiency, what is specified in Part F of the Building Regulations Act 2010. Continuous ventilation systems are more recommended than intermittent fans.

Drainage - The installation and maintenance of wet room drains is covered in Part H of the Building Regulations Act 2010, and key provisions include:

- All foul water drainage systems should have a large enough capacity to carry the expected water flow from the shower at any point.
- The size and gradients of the pipes should be adjusted to meet this capacity.
- All points of discharge into the system should be fitted with a water seal trap or approved alternative.
- Minimum trap sizes and seal depths applies.

Electrics - There are strict guidelines on the installation of electrics in bathrooms and wet rooms, and most electrical work must comply with Part P of the Building Regulations Act 2010. This section states that no mains voltage may be fitted in a wet room, including electric shaving sockets, light switches, standard sockets. All lights should be enclosed and mounted on the ceiling, with a pull cord switch installed or wall mounted light switches should be installed outside of the wet room. Electric and gas heaters must be fixed at a safe distance from the shower area.

For a full list of the Building Regulations Approved Documents and how to apply for approval, visit Planning Portal.

Why waterproof the bathroom?

Eliminate leaks - water penetrates and with any damages, or unsealed areas it will quickly find a route out. That will cause dampness, leakages

Prevents damp and mould - in unsealed bathroom water can penetrate the wood, plasterboard or brick and cause dampness. Waterproofing of substrate can prevent the build up of condensation and prevent damp from occurring.

Insulation - waterproof system can act as an insulation especially in case when bathroom formed external walls

More design options - wet rooms, open plan shower, wall hung toilets; wall hung basins

Bathroom Waterproofing Step by Step

1. Install the green plasterboards or make sure the walls are structurally sound.
2. Apply primer - before application of the primer remove any nails, screws, fill gaps, sand the surface if required. Ensure walls and floor are smooth, and there is no dust. Apply the coat of the primer starting from a floor, through walls and ensure the even coverage.
3. Apply 1st coat of liquid rubber membrane - start an application from corners, through floor and walls. Ensure the full coverage.
4. Use sealing tape- seal any joints between floorboards, walls, floor, etc. Allow surface to dry approximately 2-3 hours. Seal drainage pipe with tape. Ensure there are no air bubbles in the membrane, roller it until smooth.
5. Apply 2nd coat of liquid membrane- Follow with the same application on the walls. Applications of coats should always be in dif-

6. Ensure surface is properly dried before tiling.



WHICH AREAS NEEDS WATERPROOFING?

It should be done in all wet areas in the building, for instance:

BATHROOMS

WET ROOMS

SHOWER STALLS



WET AREAS IN A KITCHEN



AROUND DRAINS AND TAPS



LAUNDRIES



WATERPROOFING MYTHS - TRUE OR FALSE

It doesn't matter whether I will choose the system of a given manufacturer or different products from various manufacturers. **FALSE!**

The system by one manufacturer is composed in such a way, so all products form complete solution dedicated to the particular area, e.g. a bathroom, a terrace, a swimming pool or basement. Replacing the products within systems is possible. However, attention should be paid to their parameters since the matching of products is crucial to durability, completion time and reliability. Moreover choosing a complete system often allows for a guarantee by the manufacturer, as installers are adequately trained and certified to work with the specific products.

The liquid rubber membrane is enough for bathroom waterproofing. **FALSE!**

Though proper sealing preparation is the basis, one has to remember that the liquid rubber membrane on its own is not enough. Indeed, we start the waterproofing with applying the chosen product into pre-primed corners and all wall and floors joints, but these areas should also be protected with, e.g. sealing tape or an additional coat of sealing compound.

Underfloor heating (UFH) in bathrooms doesn't have an adverse impact on waterproofing. **TRUE!**

There are no obstacles to doing the UFH installation during a repair or when designing a new bathroom. Proper workmanship and quality products will guarantee the warmth of floor in a bathroom. It is worth to remember:

- Taking into account health & safety, electric heating should not be installed in areas that are directly exposed to water e.g. shower floors. For wet rooms, the water under floor heating is a better choice.
- When choosing the adhesive mortar, it is important to pay attention to its heat resistance parameters and deformability features.
- When choosing the grout, it is necessary to get the reinforced grout.

The joints require additional sealing. **TRUE!**

Any joints exposed to the activity of water always need additional sealing. These are crucial elements, which not adequately protected, may lead to damage - flooding a neighbour or damages to walls

and floor. Moreover, the protection of pipe culverts under the ceramic units is highly recommended.

It is not recommended to use liquid rubber membrane on a wooden substrate. Instead, it is better to use sealing mats (waterproofing membrane). **TRUE!**

Without proper protection guaranteed by waterproofing products and base preparations, wood in wet rooms will cause damage. Wood, as opposed to concrete, is an elastic raw material that is subject to variable changes when exposed to the moisture. It is, therefore, important to select the proper products and adequately prepare the wooden substrate. Such products should reduce the possible wood expansion or even nullify the tensions between e.g. tiles and wood. Products should be durable, resistant to moisture, dampness and activity of microorganisms (essential in the case of a wooden base).

WATERPROOFING PRODUCTS

Below is the selection of products for the best results in bathroom waterproofing. If you need any help selecting a suitable substrate, you can obtain the advice in one of IBB depots. All below specified products are available in IBB depots or www.ibb.uk

IZONIL - Izonil Waterproof and Breathable Plaster provides a totally waterproof barrier, without the need for a membrane. Applied direct to walls it seals and prevents the ingress of water either side of the plaster while remaining vapour and air-permeable, allowing trapped moisture to evaporate. It does not contain harmful or flammable ingredients and so is environmentally friendly.

Izonil Waterproof and Breathable Plaster is a high quality, cement/lime based, fibre reinforced, rendering and plastering mortar for masonry that meets the requirements of BS EN 998-1. Manufactured to strictly controlled specifications, it is supplied as a ready mixed powder that requires only the addition of water on site.

Can be used on any conventional masonry such as brick, stone, blockwork and concrete from 15 to 30mm thickness. NOT suitable for application onto plasterboards! Izonil Plaster is a fine grade mortar

and so offers a 'one coat' solution providing under-coat and professional finish coat.

Benefits:

- Continuous laboratory testing for composition and quality
- 10 year guarantee on water resistance
- No need for membrane or any other additional layers
- Vapour-permeable, allowing trapped moisture to evaporate
- Easy to use- no special tools, skills or training are required
- More cost-effective than any other multi-layered solutions
- Applicable as above-grade or sub-grade insulation
- No bituminous or toxic ingredients



MOISTURE RESISTANT PLASTERBOARD (GREEN) - Enhanced plasterboard with water repellent additives in the core. Recommended for use in intermittent moisture applications where additional performance is required such as in kitchen and bathroom walls and ceiling installations. It is also suitable for use in external soffits that are in sheltered positions.

CEMENT BOARD - A cement board is a combination of cement and reinforcing fibers fabricated in thin sheets that can be used as a substrate when attached to the plywood for tiles, kitchen units etc. Moreover, it can be used as a substrate for external plaster and renders. The cement board is not waterproof, but it is highly resistant to absorbing moisture and has excellent drying properties. It weighs more than the plasterboard sheet.

Sealing Mats - WYKAMOL Slimline WATERPROOFING MEMBRANE - Slimline Mesh Interior Waterproofing System.

Cavity drain membranes, drainage and accessories for remedial interior isolation of damp above-ground or basement walls and floors and direction of surface water.

- Suitable for applied plaster finish or plasterboard on adhesive dabs.
- Water entering through walls is contained behind membranes and directed to drainage at base of wall.
- Suitable to provide Type C drained protection to Grade 3 or Grade 4 environment for residential or commercial use, in conjunction with adequate heating and ventilation.
- Requires sump and pump or equivalent passive water disposal system. (Sumps and pumps specified separately).



ATLAS WODER S - ATLAS WODER S - water-resistant cement mortar protects substrates against pressurised water - can constitute the internal and external sealing layer of walls and floors, swimming pools and other water reservoirs.

Creates water-resistant layer - light, medium, or heavy insulation type (depending on the thickness of the applied layer).

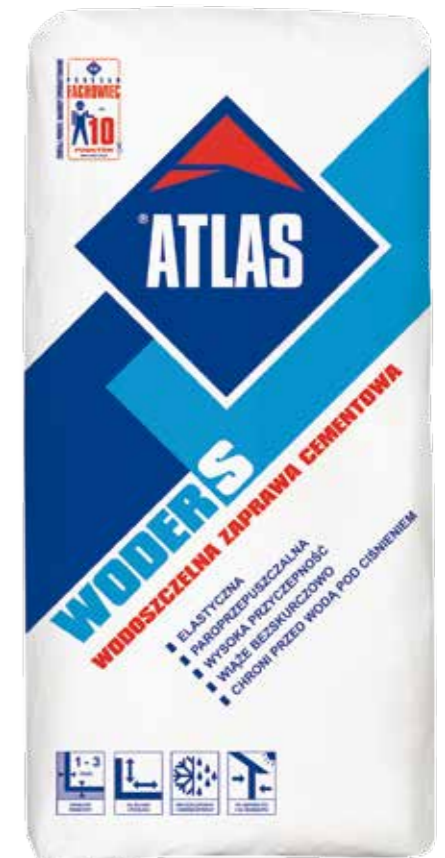
Protects substrates exposed to precipitation and ground water - balconies, terraces, façades, cellar walls, foundations, stairs, plinths (e.g. before tiles fixing or applying decorative render ATLAS DEKO M type).

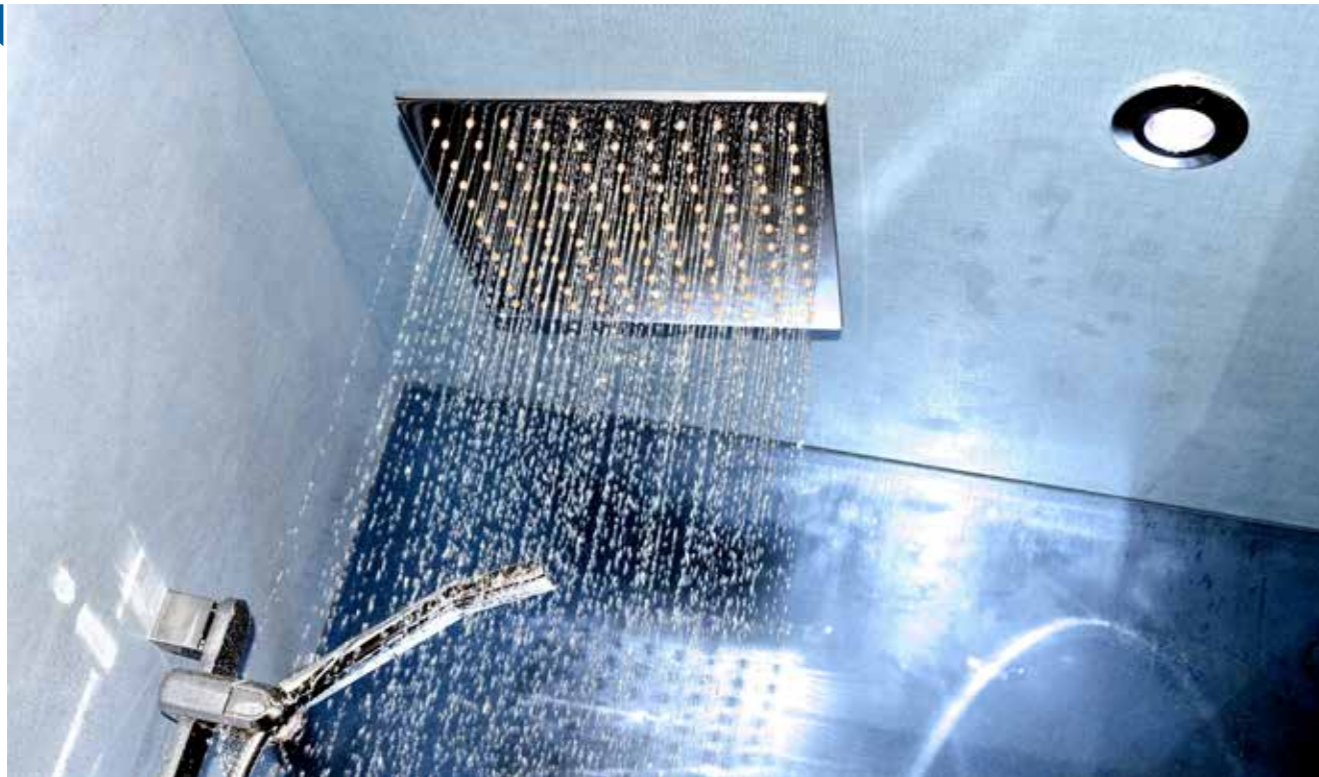
The main characteristics

- flexible, steam permeable
- protects against pressurised water
- allows sealing tapes embedding
- high adhesion, sets without contraction
- sets without contraction
- for mineral substrates

The main parameters

- layer thickness: 1 - 3 mm
- consumption: 2 kg / 1 m for 1.5 mm thickness
- resistant to water pressure of 5 bars
- adhesion: min. 1.2 MPa





ATLAS WODER DUO - two-component waterproofing. Forms waterproofing and damp proofing - light, medium or heavy type (depending on the thickness of the applied layer).

Seals against water:

- under pressure of 50 m water column (5 bars) - in water reservoirs, pools (resistant to chlorinated water)
- pressureless - flowing freely as the result of rain, surface washing, in showers, in wash rooms or in the form of surface damp, etc.

The main characteristics

- for light, medium and heavy type waterproofing
- flexible, obturates scratches and cracks
- reinforced with fibres
- perfect under tiles on terraces, in bathrooms and kitchens

- for pools, fire water tanks, water reservoirs

The main parameters

- layer thickness: 2-3 mm
- consumption: approx. 3.0 kg / m² / 2 mm
- resistance to pressurized water (50 m): min. 0.5 MPa

AVAL KL 51 - water-tight flexible foil

Description

Creates lightweight type insulation - seals places where water flows without pressure (free flow).

The main element of AVAL sealing system - in



combination with AVAL KT 17 (ATLAS UNI-GRUNT), the tape and other sealing elements.

Protects substrates against moisture inside buildings - renders and screeds in wet premises (bathrooms, baths, showers, kitchens and washing rooms), especially in wet areas of those premises - around shower cabins, wash basins, bathtubs, sinks, etc.

Protects substrates exposed to precipitation - balconies, terraces, etc.

The main characteristics

- protects substrates against humidity
- highly flexible
- for balconies and terraces
- for bathrooms, kitchens and cellars
- element of the sealing system

The main parameters

- layer thickness: 1 - 5 mm
- consumption: ca. 2 kg / m²
- directly under tiles
- adhesion: 1.3 MPa

Read about Waterproof membranes and Tanking system in IBB Builder issue 2/2016 - http://issuu.com/ibbbuilder/docs/ibb_builder_02_2016_issuu?e=22887640/33178066.

The information contained in this guide is for guidance only and should be used in conjunction with installation instructions provided with specific products.



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Mobile Building Calculator



SCAN ME



ANDROID APP ON Google play

Available on the iPhone App Store

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www.IBBestimator.co.uk

Sanitary pipework and foul drainage

We can distinguish between two systems of drainage: 'foul' and 'surface water' consisting of above-ground and underground elements.

- Foul drainage carries the used water from sanitary appliances e.g. toilets, sinks, basins, baths, showers, bidets, dishwashers, washing machines, etc. A sanitary pipework is an above-ground pipework, while the underground pipework is foul drains and sewers.
- Surface water drainage carries rainwater from roofs, gardens, patios, driveways, etc. We can distinguish between roof drainage carrying water away with the system of gutters and rainwater pipes and the underground pipework known as surface water drains and sewers.

In this article, we will focus mainly on sanitary pipework and we will introduce the foul drainage, which will be described in depth in the next month edition. The detailed advice on how to comply with the Building Regulations you will find at Approved Document H.

Sanitation systems are the main components of the domestic plumbing system. Sanitary appliances include WC, washbasin, bath, shower, bidet, sink, washing machine, etc. The sanitary pipework it has to be ad-

equately designed and installed to ensure all wastage will be safely disposed and no odour occurs.

Pipes are required to be appropriately sized to allow the flow of water, minimise the risk of blockage and to allow air movement. Sanitary pipework should be dismantled easily in case of blockages. The main drainage pipes are made of PVC plastic. For the WC a 110mm diameter pipe is required. Basin and bidets require 32mm pipes, while baths, showers, sinks, washing machines, etc. require 40mm pipes.

Moreover, sanitary pipework has to be ventilated to stop odour from the pipework and drains from escaping into the building. It can be done by extending a branch ventilating pipe to the outside (external air) by at least 3m to the side of any opening into the building or by 0.9m above. Another option is to extend a branch ventilating pipe to a ventilating stack (ventilated branch system) or internally by use of an air admittance valve. The ground floor appliances may be connected directly to the drain without ventilating pipe if the whole drainage system is already ventilated.

All the pipes have to be laid out to a slope so that the water will be able to drain away minimising blocking the pipe with dirt or debris (*diagram*).

The sewage from toilets and the wastewater from baths, sinks, wash basins and washing machines are called foul water. The wastewater is directed via U-bend traps to underground pipes (normally 100 to 150 mm diameter) and inspection chambers.

There are various types of layout for the foul drainage pipework in the property:

1. When the toilet waste runs separately into a vertical soil pipe (normally 150 mm diameter) connected directly to the underground pipes. This soil pipe may be outside or inside the property. The sanitary wastage runs into a trapped gully at ground level. (common in buildings built before 1950s) It is a two pipe system.
2. The so called single-stack waste system when all the sewage is directed towards the single soil pipe, with a possible exception being the kitchen sink, which may drain via a gully. It can be used with 100 mm diameter stack for buildings up to 5-storey height.
3. If all types of sewage is discharged into

a common sewer or into same waste disposal system it is a one pipe system.

More than one gully and both layouts may occur in larger buildings, where the foul water is discharged to public or private sewers. Sometimes the foul water may flow to a septic tank or cesspit.

A sanitary system consists of horizontal branches; vertical stacks; a building drains inside the building, drain, sewer to the point of disposal. Drains must be pitched to maintain the flow. The proper size of pipes can be determined by estimation of the number of sanitary units and the pitch of the pipe. The DFU values are assigned to determine the size of the drainage system.

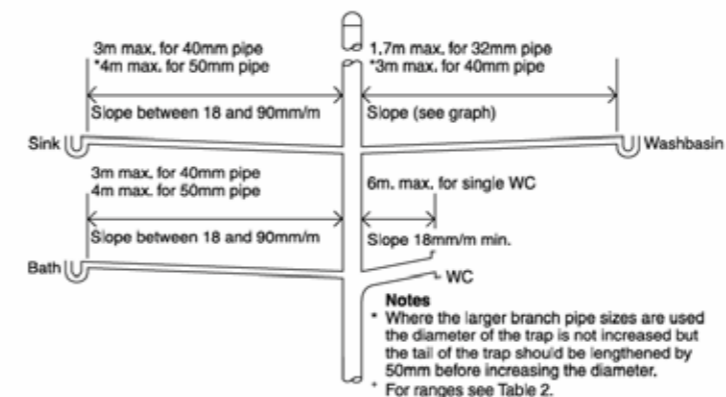
TRAPS - All points of discharge into the drainage system should be fitted with a trap (e.g. a water seal trap) to prevent odour from the system entering the building. Traps should retain a minimum seal of 25mm of water or equivalent. This table shows minimum trap sizes required for sanitary appliances. Traps are available as a low-level bath, shower traps, anti-siphon traps and "S" or "P" tubular traps. Traps should be installed immediately below the outlet and be easily accessible.

DISCHARGE STACKS - it is the vertical collecting pipe that connects to the underground drain. All branch pipes connect to the central stack. All stacks should discharge to a drain. According to Building Regulations stacks for toilets should be not less than 50mm diameter, stacks serving closets with outlets less than 80mm should be not less than 75mm and stacks serving closets with outlets greater than 80mm should be not less than 100mm. The internal diameter of the stack should be not less than that of the largest trap or branch discharge pipe. For larger buildings, the maximum flow should be checked. From ground floor appliances a stub stack may be used that connect into a ventilated discharge stack or a ventilated drain (subject to some restrictions- see Approved Document H for details).

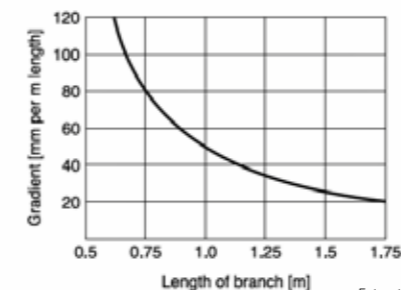
It is necessary to avoid cross-flow which can occur when two branches are installed opposite each other. The no connection zone is required. The parallel junction is required under the no connection zone

The soil and waste stack shall be firmly attached to the wall with a minimum clearance of 25 mm from the wall. All stacks should be covered on top.

Branch connections



(a) Unvented branch connections to stacks



(b) Design curve for 32mm washbasin waste pipes

Extract from The Building Regulations 2010, Approved Document H, Diagram 3 p.9

VENT STACK - A vertical piping to which connections are made from the discharge side of traps and through which gases, odour is removed.

BRANCH - Any piping fixture other than the main, riser, or stack.

BRANCH VENT - A vent connecting one or more individual vents with a vent stack.

DRAIN - receives the discharges from soil, waste, and sanitary systems and conveys it to the sewer

SEWER - sewer is the horizontal piping of a drainage system which receives the discharge from the drain and conveys it to a public or private sewer, cesspit or septic tank.

PIPES and JOINTS - there is a wide selection of materials available for sanitary and foul drainage. The appropriate method of joining applies to a particular product - PVCu soil pipes can be joined with a ring seal or can be solvent welded, while polypropylene waste pipes, PP acoustic soil and waste pipes are all push-fit jointed.

When the fall is not less than 20mm per m, horizontal drainage piping of 75 mm diameter and less is required. When the fall is not less than 10mm per diameter, horizontal drainage piping larger than 75 mm diameter shall be installed. The soil pipe conveying any solid or liquid filth to a drain shall be circular with a minimum diameter of 100 mm.

FLASH VALVE- a device installed on the sanitary appliances fixtures for the purpose of flushing.

Table 1 Minimum trap sizes and seal depths

Appliance	Diameter of trap (mm)	Depth of seal (mm of water or equivalent)
Washbasin ¹ Bidet	32	75
Bath ² Shower ²	40	50
Food waste disposal unit Urinal bowl Sink Washing machine ² Dishwashing machine ²	40	75
WC pan – outlet <80mm WC pan – outlet >80mm	75 100	50 50

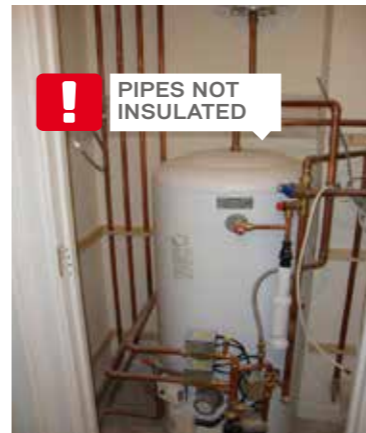
- ¹ The depth of seal may be reduced to 50mm only with flush grated wastes without plugs on spray tap basins.
- ² Where these appliances discharge directly to a gully the depth of seal may be reduced to not less than 38mm.
- ³ Traps used on appliances with flat bottom (trailing waste discharge) and discharging to a gully with a grating may have a reduced water seal of not less than 38mm.

Extract from The Building Regulations 2010, Approved Document H, Table 1 p.7

PUSHFIT SYSTEM PIPE	SOLVENT WELD SYSTEM PIPE	FOUL UNDERGROUND DRAINAGE
Soil Pipe 3 m Black (SP400)	Plain Ended Olive Grey Pipe (SS300)	320mm Chamber Base 2 Inlet (ETP369A)
Soil Pipe 92.5deg Triple Socket Access Branch Black (SP413)	92.5deg Triple Socket Branch Olive Grey - Boss 50 mm (SS310)	Universal Drain Adaptor (ETP333UNI)
Soil Pipe Vent Terminal Black (SU219)	Vent Terminal (SU219)	

HEATING / HOT WATER

PROBLEM TO AVOID HEAT LOSS THROUGH UNINSULATED PIPES



PRIMARY PIPEWORK NOT INSULATED



BOILER FLUE NOT SEALED

WHAT TO DO?

- Insulate all pipework to site specification and DHCg - minimum 25mm insulation to all primary pipework including valves and junctions
- Fully seal all holes and gaps under/behind kitchen units
- Fully seal all holes and gaps in wet rooms (under/behind bathroom units, bath and shower)
- All control valves are clearly labelled, providing information about the valve function
- Refer to Domestic Heating Compliance Guide from - www.planningportal.gov.uk



GOOD PRACTICE Pipe insulation continuous around the full length and secured in place

Please print and use in your site office, for further information www.zerocarbonhub.org



Bathroom Waterproofing and Drainage

Estimation conditions

- estimated cost for 12m2
- materials prices discounted by 40%; discount available for registered users of IBB Estimator PRO version

NOTICE!

- The below estimation is only the proposal, you can use it at your own risk
- All products are available at IBB

Labour

No	Name	Rate	Qty	[unit]	Costs
1.	Labour skilled	£10.00	16.210	lh	£162.10
2.	Plumber	£12.00	7.898	lh	£94.78
	Total		24.108	lh	£256.88



Material

No	Name	Feature	Dimension	Price [unit]	Qty	[unit]	Costs
1.	PCV sewerage pipe tee	SS310 OGR	110mm*92.5deg	£14.00	0.600	pcs	£8.40
2.	PCV sewerage reducing pipe	WS322 OGR	40mm	£1.00	3.200	pcs	£3.20
3.	PCV sewerage reducing pipe	WS323 OGR	50mm	£1.17	1.600	pcs	£1.87
4.	PCV sewerage reducing pipe	WS321 OGR	32mm	£1.00	3.200	pcs	£3.20
5.	drainage membrain	Slimline, yellow	1m*30m	£12.92	14.400	m2	£186.05
6.	exterior sewerage pipe	WS302 OGR	fi 50mm*3m	£6.93	0.960	pcs	£6.65
7.	exterior sewerage pipe	SS300 OGR plain ended	fi 110mm*3m	£14.75	0.860	pcs	£12.69
8.	exterior sewerage pipe	WS301 BLA	fi 40mm*3m	£4.99	1.920	pcs	£9.58
9.	exterior sewerage pipe	WS300 BLA	fi 32mm*3m	£4.58	1.920	pcs	£8.79
10.	interior sawege knee	WS304 BLA - swept	40mm*92.5deg	£1.00	5.000	pcs	£5.00
11.	interior sawege knee	WS310 BLA - obtuse bend	40mm*45deg	£1.00	5.000	pcs	£5.00
12.	interior sawege knee	WS311 OGR	50mm*45deg	£1.17	2.500	pcs	£2.92
13.	interior sawege knee	WS305 OGR	50mm*92.5deg	£1.17	2.500	pcs	£2.92
14.	interior sawege knee	WS303 BLA - swept	32mm*92.5deg	£1.00	2.000	pcs	£2.00
15.	interior sawege knee	WS309 BLA - obtuse bend	32mm*45deg	£1.00	5.000	pcs	£5.00
16.	interior sawege knee	WS306 BLA - knuckle	32mm*90deg	£1.00	3.000	pcs	£3.00
17.	pipe clip	WU201 OGR	40mm	£0.25	8.000	pcs	£2.00
18.	pipe clip	WU202 OGR	50mm	£0.42	4.000	pcs	£1.68
19.	pipe clip	WU200 OGR	32mm	£0.25	8.000		£2.00
20.	pipe clip	SU221 BLA	110mm	£1.25	3.000		£3.75
21.	primer for render	AVAL KT 16 CERPLAST	bucket 5kg	£14.58	0.384	bucket	£5.60
22.	sealing compound (liquid foil)	KL 51 Woder E	bucket=5kg	£24.92	9.600	bucket	£239.23
23.	waterproof tape	KL 56 int. corner		£5.75	4.000	pcs	£23.00
24.	waterproof tape	KL 52	roll=50m	£3.29	23.100	m	£76.00
25.	waterproof tape	KL 57 ext.corner		£5.75	2.000	pcs	£11.50
26.	waterproof tape	KL 53	120*120mm	£4.16	1.000	pcs	£4.16
	Total						£635.20



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IBB Polonia London

reach the finals of the Volleyball England Cup

After the match on 25th February in the Semi-Final of the Volleyball England Cup, the IBB Polonia London players have good reason to be happy. They returned to their winning ways and beat Wessex 3:1 (25:22, 19:25, 25:22, 25:21) giving them a place in the Final of the competition. This season their opponents in the Final will be Sheffield, who managed to get past Team Northumbria, winning 3:1.

– Yesterday's game was very important for us. Following a few weeks with an incomplete squad, we lost two matches unexpectedly and we seemed to be struggling. We managed to train with everyone back on court and this resulted in our victory. – said Head Coach Piotr Graban – The whole squad was important; when things became tough, we stuck together and supported each other. When somebody came on court from the bench, they brought something positive with them. It's important for me as a

coach and gives comfort that I can count on each member of the team.

Last season, IBB Polonia London won the Volleyball England Cup beating Team Northumbria. We will have to wait until 1st April to see if the success can be repeated. More information about this match will appear shortly on <https://www.facebook.com/IBBPoloniaVC/>. There will be more opportunities for volleyball fans to see the team in action as there are still league matches to fin-

ish this season. On Sunday 5th March IBB Polonia London play London Docklands at home for the first time this season.

– There are now two league matches against London Docklands; one home and one away and then we have the final of the Volleyball England Cup. I hope that over this time all of the injuries have time to heal and we can iron out a few small issues with how we are playing and we will return to the powerful form we had recently. I would like to invite all fans to come and support us; it is amazing how inspiring it is when the crowd is singing and cheering. – added Piotr Graban.

The upcoming match will take place in the home venue: Brentford Fountain Leisure Centre: TW8 0HJ. The game starts at 3pm. Tickets are available on the website: polonia.eventbrite.co.uk

The sequence of IBB Polonia London victories is broken by Sheffield



The sequence of matches for the start of 2017 is unrelenting as far as IBB Polonia London are concerned. A large number of demanding matches greeted the team after the festive period; the 1/8 final of the CEV Challenge Cup being the pinnacle, followed by a league match against Sheffield on the 11th February. Sadly this match didn't go the way of the current Champions of England 3:0 (25:22, 25:23, 25:16) and the run of victories since 23rd October was broken.

– It often goes this way. I warned the players and Club in general, that after the toughest confrontations, such as the CEV Challenge Cup and National Cup, motivation and physical form often falls away. We certainly can't call Saturday's result a success. We had some squad issues and

as a result lost 3-0 away. Luckily we managed to gain a good advantage over the rest of the league in the build up to this match and so we can confidently focus on the Cup match and the play offs that are on the horizon. – said Piotr Graban, Head Coach of IBB Polonia London.

The tough phase for the London team has not finished yet: this coming Saturday (18th February) is the home leg of the match against Team Northumbria

– We approach the match as usual, confidently. They played well in the away match and so we know what we need to do when we play them at home. We want to show that the loss against Sheffield was just a blip. I am sure the match will be very emotional with lots of great action. I invite everyone to come and support us. It is really important to us that you are there. We promise that we will do everything possible to win the home game. – added Graban.

The match is to take place at Brentford Fountain Leisure Centre. The game starts at 3pm

Tickets are available on polonia.eventbrite.co.uk



Monika Jakubowska

IBB Polonia London gain one point from the match

On 18th February 2017, Team Northumbria played IBB Polonia London in the return leg of the line up. After an epic five set encounter, the hosts were beaten by the visitors from the north. The result was 2:3 (25:16, 25:13, 18:25, 27:29, 15:17).

- I am pleased with the high level of play of our team, but clearly not the result we were hoping for. It's a real shame we didn't put the game to bed in three sets. After the third set Team Northumbria suddenly woke up and started to play. In the following sets both teams played very attractive volleyball. We had match point, but an amazing piece of luck saved the opposition. We showed that we could play at a top level without one of our setters and the two

middle blockers who have dominated the team from the start of the season. Much of the game we played at a higher level than the opposition who really played well. The match generated a lot of emotions from the supporters who gathered in their hoards in our sports-hall. We thank you for being there. - commented Piotr Graban; Head Coach of IBB Polonia London.

- Following our CEV Challenge Cup adventures we had some changes in the squad; we have not been able to train nor play with a full roster of players. The result of the match came down to tiny details. We had match point and we were not able to finish the attack and to win 3-1; as a result we lost 2-3. The match was on a decent level and I am sure the fans were entertained. - said IBB Polonia London setter, Bartosz Kisielewicz.

The next match for Graban's boys is the Semi Final of the National Cup against Wessex. The week will see some very intensive training to prepare for this on Saturday 25th February 2017 at Brentford

Fountain Leisure Centre. The prize for winning the match will be a place in the final of the National Cup.

- Now we must focus on the match against Wessex. We have three important training sessions before then. We will be back to full strength this week, and so I'm counting on an improvement from our players, and I predict a place in the final. I invited all of our loyal fans back to Brentford to help us reach one of our goals for the season. We will need the support. - added Piotr Graban.

- This week will be vital for us. We only have one chance to reach the finals again. We will approach this match as though it was the final itself. We will give everything of ourselves, and I am sure we will succeed in defending our title. - concluded Bartosz Kisielweicz

The match will take place in the home venue: Brentford Fountain Leisure Centre: TW8 OHJ. The game starts at 3pm. Tickets are available on the website: <http://polonia.eventbrite.co.uk>

A historical win was not sufficient for IBB Polonia London to progress to the quarter finals of the CEV Challenge Cup

Wednesday 1st February will enter the history books, not only for IBB Polonia and also not only for volleyball in England, but for sport in the British isles. In Crystal Palace national Sports Centre, a volleyball festival took place where IBB Polonia London squared up against Draisma Dynamo from Holland.

After a titanic battle, the players from London beat the Dutch team 3-2. (22:25; 25:23; 18:25; 25:20; 15:9). Despite the victory, it was not enough to progress to the quarter finals of the prestigious CEV Challenge Cup. The arena was a total sell out with close to 1200 spectators creating an unforgettable atmosphere.

The highest scoring player was captain Marius Ciortea who individually won 14 points. The second highest scoring player was from Apeldoorn: Max Staples amassed 13 individual points. Bontrop Dustin was the best receiver of the match from the Dutch side.

- I have nothing negative to say about any of my players, we won the match, but the team from the Netherlands showed a very professional side to the game. We were not able to stop their opposite hitter despite trying a variety of strategies during the five sets. It was just like looking at World Champion Mariusz Wlazly playing his best against us. The atmosphere was unbelievable and the difference between winning and losing was a handful of points. We were close to making it through to the next round, but the opposition who train three times as much as we are able to, deserved the aggregate

victory today. I wish them lots of luck in the next round. - commented Head Coach of IBB Polonia London Piotr Graban.

- It was a really nice night. A lot of people were watching the match. I think our opponents - IBB Polonia London showed a lot of spirit. I strongly believe that in the first three sets we were a better team. That's why we won two sets which we needed. So this was a close match. I think that both teams wanted to win but mentally we played equal but technically we were a better team. - said the coach of Draisma Dynamo Apeldoorn, Bas Hellinga.

Now that the European dream has ended, the IBB Polonia Players and coaching staff will focus their attention to the Super 8 league and national Cup. On 11th February, the next match will be against Sheffield.

IBB Polonia Londyn - Draisma Dynamo Apeldoorn 3:2 (22:25; 25:23; 18:25; 25:20; 15:9).



Steve Smith



Monika Jakubowska



IBB Polonia London FC

Following the club's superb achievement in reaching under seven highest division in Harrow Soccer Combination, we have set new targets and aims for IBB Polonia Football club to be achieved in the near future. Our teams have started the second phase of 2016/2017 season with fantastic results (6-0, 4-2). As a new Club on West London map, we are proud to be a part of one of the best leagues in London Football Association; this shows that we have a big potential and aims.

We are planning to organised six days Football camp in Crystal Palace sports centre in May. Our players will have two training's sessions each day with swimming pool and gym available. IBB Polonia will play friendly games with QPR Football Academy; this will be a fantastic opportunity for our players to challenge real academy teams level. The camp is open for all kids age 7-11, boys and girls even from outside the club.

After the season our teams U7, U8, U9, U10 and U11 will take part in 3 summer tournaments, one of them is 'Morliny International Cup', our boys will compete with teams from Poland, Germany and Ireland.

We are the youngest Polish Club in London, but in last six months, we have achieved fantastic results in the league or friendly games. All coaches and managers are looking forward to the future as we have very ambitious plans for the Club- in Sep-

tember another two teams of IBB Polonia will play in Harrow Soccer Combination. The Club's first training was in August 2016, and now after seven months we have nearly 70 kids in our Football Family, this gives us more power to work harder for the Club success. - Pawel Jurgielewicz

In January we had a special guest at our Tuesday Training, Coach Marcin from QPR Academy visited our ground. Marcin is UEFA A Licensed Manager who works alongside with Polish Football Federation; he delivered technical session with our U10 and U7 teams. It was the exceptional opportunity for IBB Polonia coaches to work with Marcin.

January Results:

- U7 - IBB Polonia FC 4-2 Ruislip Rangers
- U10 - Pitshanger 0-6 IBB Polonia FC
- U10 - IBB Polonia FC 4-1 TFA United
- U7 - Pitshanger 6-6 IBB Polonia FC



Football News

NEWS

1

Kamil Grosicki signed for Hull City

The winger joined on three-and-a-half-year deal on deadline day evening. He played 81 times for the French Ligue 1. 28 year old made 16 appearances for them this season, scoring four goals, assisting three and helping Rennes up to the ninth position in France. He joined Andrea Ranocchia and Alfres N'Diaye in the Hull City.



NEWS

2

Harry Kane and his third hat-trick in 2017

Kane scored his third hat-trick in 23 minutes and helped the Spurs beat Stoke City 4-0 to climb to second in the Premier League table. The 23-year-old also scored three against Fulham in the FA Cup on 19 February and against West Brom in the league on 14 January. He scored 102 goals during his career with 86 for Spurs. Tottenham striker is now one of the top in the world.



Top scorers since 14/15 in top 5 Euro leagues

Cristiano Ronaldo	98	Alexandre Lacazette	69
Lionel Messi	89	Robert Lewandowski	66
Luis Suarez	74	Harry Kane	63
Gonzalo Higuain	73	Edinson Cavani	62
Zlatan Ibrahimovic	72	Sergio Aguero	61

BBC SPORT



NEWS

3

Manchester United - the winner of EFL Cup 2017

Manchester beat Southampton 3-2 during the final at Wembley Stadium. Zlatan Ibrahimovic's 87th minute goal helped the team to win EFL Cup. They were very fortunate to win the final as Southampton dominated the match but were left heartbroken after controversial offside decision. It was also Jose Mourinho's first success since summer appointment. For him the competition started 12 years ago when he won the League Cup in his first season as Chelsea Manager. He now won four League Cups, the same as Sir Alex Ferguson and Brian Clough but the first manager to win during his first season in charge of United Manchester.



NEWS

4

Real Madrid at the top of La Liga

Real Madrid beat Villarreal and went back to the top of La Liga. They came from 2-0 down to remarkable score 3-2. They are now one point ahead of Barcelona who beat Atletico Madrid 2-1. it was Lionel Messi who scored the winning goal in 86th minute. He has scored 22 goals in La Liga games against Atletico.



1	Real Madrid	55
2	Barcelona	54
3	Sevilla	52
4	Atletico Madrid	45
5	Real Sociedad	44

NEWS

3

Claudio Ranieri fired by Leicester City

Italian manager was sacked just nine months after winning the Premier League. The decision came after Champions League match with Sevilla who beat the Foxes 2-1. they have also lost with Millwall and were knocked out of FA Cup. So far Leicester City lost five league matches. The decision came as shock for the football world. Many football managers, fans



and journalist believe that the club made a mistake. Leicester City is looking for the new manager now with news emerging that Nigel Pearson could become the next one.

During the first match, since Ranieri sacking, Leicester beat Liverpool 3-1. Vardy scored 2 goals and Drinkwater one and Liverpool missed chance to go third in table.

FA Cup quarter-final draw:
 Arsenal v Lincoln City
 Tottenham Hotspur v Millwall
 Middlesbrough v Huddersfield
 Chelsea v Manchester United

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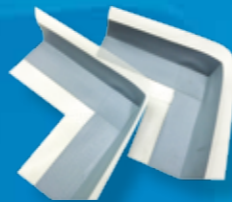
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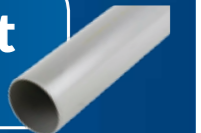
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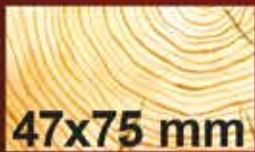
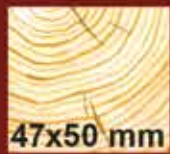
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