

## Roofing at SkillBuild

**Young crafts people from around the UK will be demonstrating their considerable capabilities at the national final of SkillBuild 2010. This year, North Wales is playing host to the event on 8 – 10 September at Llangefni – Coleg Menai, Wales.**

SkillBuild is a highly important national competition that takes place annually aiming to promote excellence amongst the UK's young crafts people. The National Federation of Roofing Contractors Ltd (NFRC) manages the Roof Slating and Tiling (RST), the Roof Sheetting and Cladding (RSC) and the Reinforced Bituminous Membranes (RBM) competition for SkillBuild. The latter discipline is supported by The Flat Roofing Alliance (FRA), who are now part of NFRC. Details of the NFRC competitions are contained in this document. NFRC is fortunate to be able to enjoy the generous support of its Trade and Associate Members, who donate materials, resources and prizes, for the competition and who are key to the success of the event.

**Ray Horwood, NFRC Chief Executive says: 'NFRC is very proud to support the SkillBuild roofing competition. The finalists for SkillBuild 2010 have already shown a high level of competency in the heats and present a very positive image for the future of the industry.'**

Our competitors have taken part in various heats up and down the country and have now been whittled down by the judges; with the top scorers from each of the heats and disciplines going onto compete in the National Final. The winners of each competition will receive their prizes at the Gala Presentation Dinner, which will be held on the Friday evening after the competition closes. The winners of the roofing category, if Members of NFRC, will also be invited to The Roofing Awards hosted by NFRC to be held in Brighton in May 2011 where they will be presented with a prestigious trophy by a well known TV personality.

This year's finalists have come from the following colleges and training centres; National Construction College South, National Construction College Midlands, Northern Ireland Roof Training Centre, Leeds College of Building, Eastern Region Roof Training Group Ltd, South Lanarkshire College, and National Construction College Scotland.

**We wish them all the best of luck!**

### About NFRC

The National Federation of Roofing Contractors (NFRC), more recently incorporating The Flat Roofing Alliance (FRA), is the UK's largest roofing trade association representing over 60% of the roofing industry by value. NFRC was formed in 1943 and during the 1950s, merged with and took on the responsibilities of the London Association of Slate Merchants and Master Slaters and The National Pitched Roofing Council. In more modern times NFRC has broadened its remit to cover all roofing types and disciplines and seeks to speak as one voice for the roofing industry.

NFRC consists of seven regions, each represented on the Management Board. The Chief Executive together with the head office staff work closely with the regional associations, their secretaries and members. NFRC has over a thousand Trade and Associate Members. Close co-operation is also maintained with Government, British Standards Institution, constructionSkill, all the UK National Heritage agencies, together with all major associations representing the various aspects (both flat and pitched) of the roofing industry.



### The Worshipful Company of Tylers and Bricklayers

NFRC is proud of the relationship it has with The Worshipful Company of Tylers and Bricklayers, who can trace their origins back to the year 1416. The City of London Livery Company which represents the crafts Bricklaying, roof tiling & slating and ceramic wall & floor tiling has a large involvement in training that revolves around SkillBuild.

Last year's winner Matt Timby (pictured right) collected his award at the Awards Luncheon held in Tallow Chandlers Hall.



# SkillBuild Heats 2010

The second year of the SkillBuild Roofing Heats kicked off in style over the summer and congratulations should go out to all of the sixteen finalists featured in this magazine. 2010 saw NFRC able to stage the first ever heats for Reinforced Bituminous Membranes (RBM) and two for Roof Sheeting and Cladding (RSC).

The heats were warmly welcomed by college tutors, who regularly report that the addition of the heats have been very beneficial in driving up standards and creating an interesting and rewarding distraction from the everyday work in colleges and training centres.

Encouragingly, this year over sixty competitors registered for the heats back in March - so those that made it through are without doubt amongst the best young roofers in the UK.

NFRC would just like to say a HUGE 'Thank You' to Kevin Taylor, for his outstanding contribution to the SkillBuild Heats and National Final and to the colleges, training centres, tutors and apprentices that took part.

**For further information on heats, please contact Kevin Taylor on 020 7638 7663**



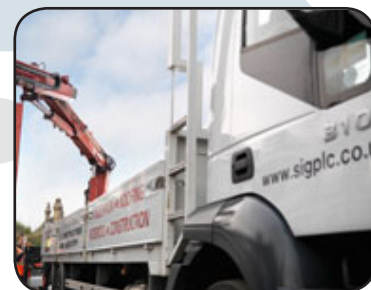
## SIG Roofing Supplies

SIG Roofing Supplies is the largest specialist distributing merchant of roofing and roofing materials, ranging from pitched, flat, industrial, sustainable, heritage and roofline. They work with specialist and leading manufacturers and also give advice and technical support to their customers.

Essentially, their involvement in SkillBuild is providing materials and logistical expertise- aiming to deliver the right quantities to the right places, at the right time. SiG believe that it's very important to support such a skilled industry and are now able to provide legislation and training courses to help support its customers achieve the highest standards. New initiatives include encouraging Roofing Contractors to engage with homeowners and providing training schemes on managing credit. SIG would like to recognise where training has paid off by rewarding excellence, through it's support of The Roofing Awards.

SIG believe supporting competitions like SkillBuild is really important as the roofing industry is an integral part of the construction industry. SIG's mantra is to drive the excellence of worksmanship in this skilled industry.

The support of these training initiatives, including SkillBuild, say much about who SIG are and what it represents



NFRC would like to say a huge thank you to SIG Roofing Supplies for their magnificent support of the competition and NFRC.

# ROOF SLATING & TILING

## The RST Competitors

### London & Southern Counties

**Competitor:** Lance Marsh

Tutor: Chris Coffield

College: NCC South

**Competitor:** Laurie Maund

Employer: ILM Mouldings

Tutor: Colin Wombwell

College: Eastern Region Roof Training Group Ltd

### Northern Ireland

**Competitor:** Stephen Harkin

Employer: D Harkin & Co Roofing

Tutor: Geoffrey Parkinson

College: Northern Ireland RTC

### Midlands

**Competitor:** Tom Soley

Employer: Worcester City Tiling

Tutor: Arthur Jevons

College: NCC Midlands

### Scotland

**Competitor:** Steven Butler

Employer: Ian R Macdonald

Tutor: Gerry Szafranek

College: South Lanarkshire College

### Yorkshire & North East

**Competitor:** Kevin Barker

Employer: Dodds Roofing

Tutor: Chris Messenger

College: Leeds College of Building

**Competitor:** Ian McCarthy

Employer: Pickles Bros (Slaters) Ltd

Tutor: Chris Messenger

College: Leeds College of Building

**Competitor:** Matthew Timby

Employer: OTTER Roofing

Tutor: Chris Messenger

College: Leeds College of Building

## General Specification

### Straight Area

500 x 250 mm 'Garsdale' Blue/Black Fibre-Cement Slates, twice nailed and single disc riveted to a 100mm headlap, over 50 x 25mm SR Timber Gold Battens, Klobber Permo Air Underlay and Hambleside Danelaw Felt Support Trays. In-set into the slating are 3no. SolarCentury C21e Solar Electric Roof Slates fixed to staggered battens at a 300mm gauge and weathered with proprietary soakers.

### Valley Area

400 x 250 mm SIGA 39 natural slates (un-holed), centre nailed with two nails per slate to a minimum headlap of 80mm, over 50 x 25mm SR Timber Gold Battens, Klobber Permo Air Underlay, and Hambleside Danelaw Slate Valley Troughs.

### Abutments

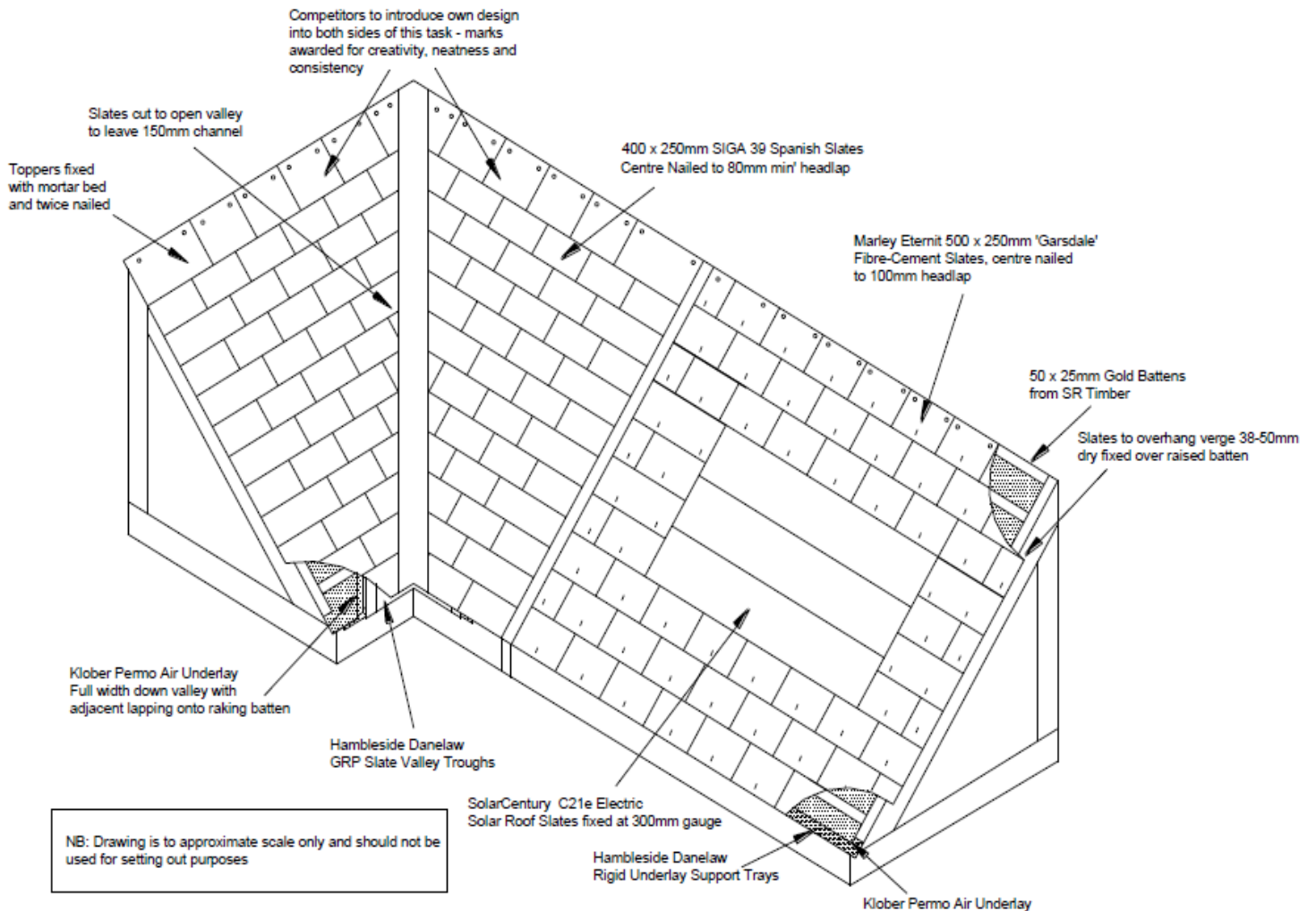
(Both sides) Underlay to be turned up and slates cut or positioned to flush with stop board - no soakers required.



# ROOF SLATING & TILING

## RST Rig Drawing

Skillbuild Finals 2010 - Coleg Menai: Competition Drawing for Roof Slating and Tiling



### Marking scheme for Roof Slating and Tiling Competition

(Max 400 Marks)

- |   |            |
|---|------------|
| A. Straight Rig: Underlay and Support Trays   | (30 marks) |
| B. Valley Rig: Underlay and Valley Trough   | (30 marks) |
| C. Straight Rig: Battens for fibre-cement slates and PV modules                                 | (40 marks) |
| D. Valley Rig: Battens for natural slates   | (40 marks) |
| E. Straight Rig: Fibre-Cement Slating and fixing of C21e Solar Electric Roof Slates             | (80marks)  |
| F. Valley Rig: Natural Slating  | (90 marks) |
| G. Overall finished appearance: Subjective marking by judges, including individual slate design | (40 marks) |
| H. Health and Safety  | (30 marks) |



# REINFORCED BITUMINOUS MEMBRANE



## The Competitors & RBM Rig Drawing

### London & Southern Counties

**Competitor:** Tom Peck  
**Employer:** Capital Roofing Co. Ltd  
**Tutor:** David Ballantyne  
**College:** NCC South

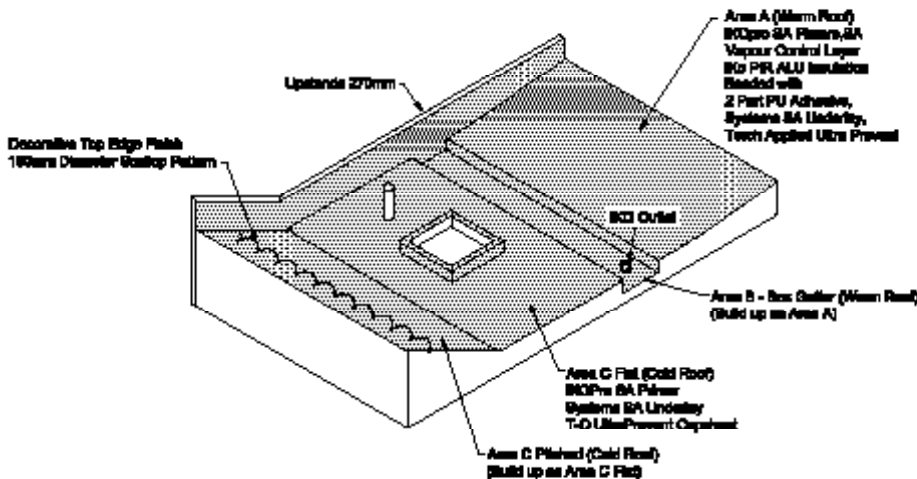
**Competitor:** Samuel Hall  
**Employer:** Russell Trew Ltd  
**Tutor:** David Ballantyne  
**College:** NCC South

### Midlands

**Competitor:** Sam Timbrell  
**Employer:** The General Asphalt Company  
**Tutor:** Nick Cuddihy  
**College:** NCC Midlands

### Scotland

**Competitor:** Grant Stevenson  
**Employer:** Miller Roofing Ltd  
**Tutor:** David Ballantyne  
**College:** NCC Scotland



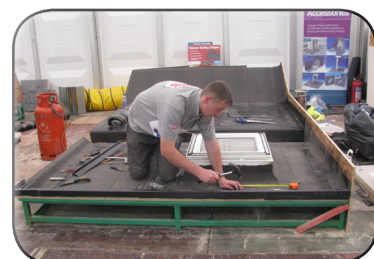
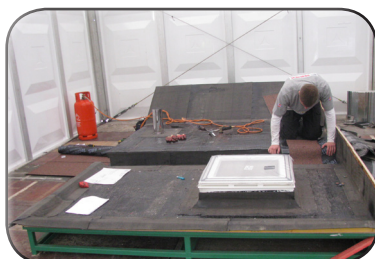
### Marking scheme for Reinforced Bituminous Membrane Competition (Max 300 Marks)

- A. Gutter Roof Rig: (50 marks)
- B. Cold Roof Rig: (75 marks)
- C. Warm Roof Rig: (75 marks)
- D. Slope Roof Rig: (75 marks)
- E. Aesthetics/H&S: (25 marks)

### General Specification

The competition rig is split into two main areas, consisting of a warm roof section and a cold roof section. These are split by a gutter section in the centre. The specification includes detailed aspects of cold applied installation and traditional torch-applied membrane.

The IKO GUARDIAN System is a built-up warm roof system guaranteed for up to 20 years against faulty design, materials and workmanship designed to allow quick installation of a 2 layer waterproofing system, the warm roof build up allows for the system to be installed up to the underlay without the need for hot works. The system incorporates a Systems S-A underlayer which is adhered onto the specified insulation. Enhanced adhesion of the underlayer to the insulation board is achieved when the Ultra prevent T-O capsheet is torch applied, enabling a cost effective insulation to be specified. Whilst also protecting the insulation from direct contact with the torch flame. Detailing is achieved by the latest cold applied waterproofing systems developed to reduce the requirement for any hot works during the installation of detailing works.



# ROOF SHEETING & CLADDING

## The Competitors & RSC Rig Drawing

### Scotland

**Competitor:** Scott McLeod  
Employer: Grainger Building Services  
Tutor: John Lindsay  
College: NCC Scotland

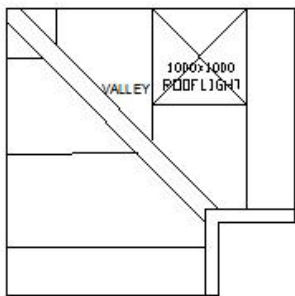
**Competitor:** Scott Lyons  
Employer: North East Contracts Ltd  
Tutor: John Lindsay  
College: NCC Scotland

### Scotland

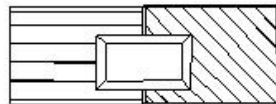
**Competitor:** Peter Kerr  
Employer: Weatherproofing Advisors  
Tutor: John Lindsay  
College: NCC Scotland

### Midlands

**Competitor:** Ryan Fowkes  
Employer: R Ellis Contractors Ltd  
Tutor: John Mortimer  
College: NCC Midlands



ROOF PLAN



VERTICAL CLADDING

TEAM 1 OCEAN BLUE  
TEAM 2 OLIVE GREEN  
TEAM 3 VANDYKE BROWN  
TEAM 4 MUSHROOM

### Marking scheme for Roof Sheeting & Cladding Competition (Max 300 Marks)

- A. Preliminaries (20 marks)
- B. Roof Sheeting (90 marks)
- C. Parapet Capping (80 marks)
- D. Perimeter Flashings (60 marks)
- E. Overall Finish - Maximum of 20 marks per rig for the overall finished performance (20 marks)
- F. Health and Safety (30 marks)

### General Specification

#### Main Roof (Ash and Lacy)

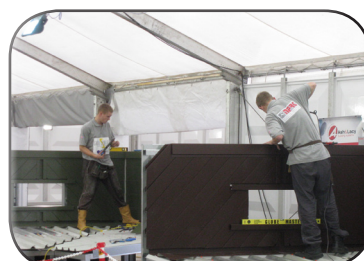
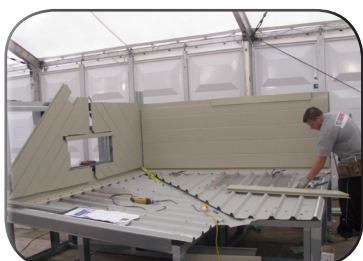
0.7mm 1000-32 Trapezoidal roof sheets, plastisol coated to external face, incorporating a GRP rooflight to one slope.

Details: Verge end, Apron abutment, Hip valley, Eaves Closure and trimline gutter

#### External Horizontal and Diagonal Cladding (Ash and Lacy)

0.7mm thick, 30mm deep, 190mm module plank profile fixed in both the horizontally and diagonally @ 45°.

Details: Parapet capping, Corner closure and window surround flashing.



# SPONSORS IN THE SPOTLIGHT!

**Each year, NFRC aim to focus on our sponsors.**

We could not undertake the competition at this high level without our sponsors loyalty, commitment, support and generosity.

## Solarcentury & SkillBuild



**solarcentury**

**Solarcentury is the UK's most experienced solar energy company. Since 1998, we have managed the installation of over 1000 major solar electric projects including those at the Eden Project, the UK Environment Agency, Europe's largest vertical solar facade on the CIS Tower in Manchester, and more than 250 schools. We have also helped thousands of homes go solar through the supply of our systems to housebuilders and through our network of regional installers.**

Solarcentury's C21e solar electric Tiles and Slates were designed with input from roofers and as a result are easy to handle, simple to install and require minimal on-roof maintenance. C21e Tiles were awarded Best Overall Product at Interbuild 2006 and together with C21e Slates have now been installed on more than 2500 homes throughout the UK, France and Italy.

C21e solar electric Tiles and Slates are fully certified under the Microgeneration Certification Scheme allowing system owners to make money through the Feed-in Tariff. Solarcentury believes that roofers are ideally placed to support the on-roof elements of a solar installation, and with the launch of the Tariff encouraging the uptake of solar in the UK, roofers who diversify to provide solar installation services are helping to drive forward a roofing revolution.

Solarcentury is proud to be involved in SkillBuild once again. The inclusion of C21e solar electric Slates in the finals of the 2010 Roof Slating and Tiling Competition provides clear recognition of the role solar has to play in a forward-thinking UK Roofing industry.

## IKO PLC & SkillBuild

IKO PLC provide a focused specification-led brand, with strong emphasis on designing highly engineered flat roofing systems, customised to the clients specific needs. All our products and systems are backed by unrivalled customer service, technical and specification support including a full design service, CPD's, site surveys, CAD drawings, written reports and associated calculations. All this is backed by a comprehensive guarantee when installed by one of our nationwide network of approved contractors.



IKO's roofing material and system is being used for the flat roofing competition, and our technical department have put together the specification and marking system for use throughout. Additionally this year we have been asked to provide a roofing system that reflects our changing industry, predominantly this currently focuses on the emphasis on safety of installation, therefore we have opted to use our Guardian system. The Guardian System is a built-up warm / roof system designed to allow quick installation of a 2 layer waterproofing system, whilst protecting the insulation from flames used during application of the top waterproofing layer, enabling a cost effect insulation to be specified.

We currently provide in house training to our approved contractors for their operatives, this is currently offered for our premier specification systems, and these require specific installation techniques to be used for their installation. This has proven success in upskilling of the operatives and produces installations on-site.

IKO PLC has over 100 years experience within the roofing and waterproofing industry, and our support of SkillBuild is due to our belief that these young apprentices are the future roofing contractors of traditional and modern construction. SkillBuild enables us to offer guidance, advice and support from our experienced technical engineers and we feel it is imperative to recognise those who are dedicated and willing to learn about a trade that requires good quality craftsmanship..

We are very pleased to be involved with thr SkillBuild competition, looking to the future with more emphasis on training, which is a must in order to keep pace with our ever changing industry, and the SkillBuild competition certainly showcases the success of providing training to the students.

# NFRC ASSOCIATE SPONSORS SKILLBUILD 2010

A BIG THANK YOU FROM NFRC TO

The Worshipful Company of Tylers & Bricklayers, Employers, Competitors, Mentors, Judges, contributors and.....

## The Roof Slating & Tiling Sponsors



## The Roof Sheeting & Cladding Sponsors



## The Reinforced Bituminous Membrane Sponsors



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