











Resource Efficient Flooring Skills Project

Construction Skills funding FSP, CFA and GreenSpec

Tackle issues every which way

- Whilst design is the source of waste
 GreenSpec and other bodies continue
 to try to educate the design professions
 from the top down
- The Flooring Sectors needs to come a the same problem from the bottom up
- We might find some common ground in the middle

Executive summery

- Proposal to provide CSkills funded training to assist flooring installers to improve their offering to contractors, designers and clients
- To enable dialogue up their supply chain with main contractors, designers and clients on resource efficiency and cost issues in flooring
- Provide ready made text to initiate the discussion and support the argument if not face to face
- Develop a calculator to provide compelling evidence to persuade designers to engage.

REAP Resource Efficiency Action Plans Trade Skills: 1 Flooring

WasteCost®Lite
FLOOR Calculator

Resource Efficiency Report Generator

Arguments for RE Training coaching

Flooring

Submit or present

Data to support designers

Client Responses

Resource Efficiency; bigger picture

Room sizes & shape

Waste Quantities % & m2 Hazardous quantities m3

Counter arguments

Example wasteful designs

Products sizes & shape

Materials Costs £ Waste Costs £ & %

Counter Responses

Example Resource efficient designs

Setting out rules

Embodied Energy in waste

Response anticipation

Craftsmen v Client Dialogue coaching

Design & Specification requirements

Embodied Carbon in waste

Counter argument anticipation

Client: Main contractors Designers & Employers

Wastage calculations

Waste Reduction Opportunities % & m2

Guidance Documents

Training WasteCost®Lite FLOOR

Materials and Waste statistics

Reduced Tender £

Information Websites

Training Report Generator

REAP Resource Efficiency Action Plans Trade Skills: 2 Flooring Tender Added Value

Tender Added Value

Stand out from the crowd

SWMP & SPWMP checklist

Project Input

Diversion Opportunities and Companies

Report generator

Tender Input

SWMP & SPWMP completed

WasteCost®Lite packaging Calculator

Flooring Area
Flooring quantities

Delivery size

Packaging sizes & shape

Pallets Quantity

Polyethylene Quantity

Cardboard box/roll quantity

Convert to weight

SPWMP Report Generator

Submit or present

Data to support Contractor

Packaging Waste Quantities % & m2 & tonnes

Packaging Materials Costs £
Recycle Value £

Embodied Energy in waste

Embodied Carbon in waste

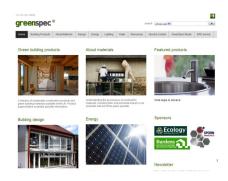
Waste Diversion Opportunities % & m2 & Tonnes

Reduced Tender £

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CITB Construction Skills

- The Sector Skills Council for Construction
- Paul Gaze
 - Specialist Federation Supports Manager
- John Carter
 - Specialist Account Coordinator
- MS&DP Management Supervisor
 Development Program Funding



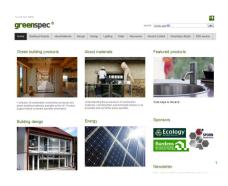
Alan Best



- Flooring, Chemistry and REACH expertise
- FSP & CFA committees
- CFJ Journal articles
 - What will force change in your world?
 - Diminishing landfill capacity
 - EPD Environmental Product Declaration
 - REACH Regulation (driving out hazardous chemicals)
 - Promotional opportunity in journal
- Sales, HR & Training background
- Represents Global Flooring manufacturer,

Brian Murphy GreenSpec

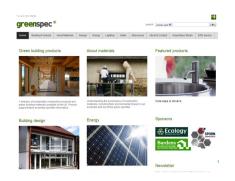
- Architect, Specification Writer
- Greening up since 1999
- GreenSpec website launched 2001
- DTI funded project with BRE on waste minimisation and recycled content
 - Website content, Specifications and Appendix
- 40 UK wide SWMP workshops with BRE, EA, WRAP, Envirowise, UKCEED, Kier, Simons
- Develops simple Excel calculators
- Runs seminars, workshops & lectures extensively



Representing



- CFA Contract Flooring Association
- FSP Flooring Sustainability Partnership
 - Setup and initially funded by BRE, WRAP,
 CPA,
 - now funded by membership
- Alan and Brian on Committees and spoke at events
 - Follow up action: this proposal

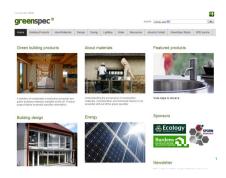








- CRUK Carpet Recycling UK
- This project is about flooring installers and installation resource efficiency
- It is not about recycling since this is the domain of waste handling, carpet recycling, recyclate distribution companies and manufacturers





Waste Hierarchy 2011

EU and EA definitions & implications



Costs
Old Waste Hierarchy
old official definition & goal

Less

Reduce Reuse Recycle Recover

More

More

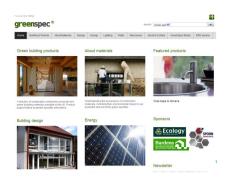
Less



Old Waste Hierarch green Spec GreenSpec definition APEN Cycle Assessment Procedules for Eco-Materials Rethink, Re-educate, Resolve, Resolve, Resource, Relate, Research, Refer, Refresh, Rename, Regard, Revalue, Remeasure, Reprogramme, Replan, Reconsider, Refuse, Reject, Return, Redesign, Regularise, Rehearse, Rationalise, Remediate, Reduce, Reserve, ReSpec, Register, Reuse, Reclaim, Repair, Retain, Remind, Recycle, Recover, Record, Report, Reward, Review, Revise, Refine, Restain

Costs Effort 2011 Waste Hierarchy

Less Focus Prevention Less Preparing for re-use Recycling Other recovery Disposal More







- Designers think waste is a site issue not a design issue
- Resource Efficiency (RE) and Waste Minimisation are No. 8 in their list of priorities
- GreenSpec WRAP, BRE, EA and Envirowise attempt to engage with designers on this issue
- And will continue to do so



CSkills Meeting



- Discuss Training Grant Application
- Forms
 - (from previous aborted application)
- Limited aspiration then
 - 1 event and 10 Architect audiences
 - (wrong emphasis for this funding)
- Bigger scope possible
 - Passive and Proactive
- What scope/time frame/budget should we consider?

CITB Construction Skills

- 1 of 25 Sector Skills Councils
- Represent 100 trade associations
 - They Develop Standards
 - Manage Trade Card Schemes
- Funded by levy on industry
- £1m back into businesses: training
 - Grants scheme for training
 - Gatekeeper: ensure benefits from money spent
- Funding each year: follow up projects or phases of same project possible

REAP Resource Efficiency Action Plans Trade Skills: Flooring & Follow Up

WasteCost®Lite Calculator

Flooring

Resource Efficiency Report Generator

Submit or present

Data to support designers

Waste Quantities % & m3
Hazardous quantities

Materials Costs £ Waste Costs £ & %

Embodied Energy in waste

Embodied Carbon in waste

Reduction Opportunities
Reduced Tender £

Emissions from Hazardous

Charts

Drawings

Arguments for RE

Client Responses

Counter arguments

Counter Responses

Response anticipation

Counter argument anticipation

Recording new arguments

Collecting disseminating arguments

Mobile APP

Training coaching

Resource Efficiency; bigger picture

Waste generating designs

Resource efficient designs

Craftsmen v Client Dialogue coaching

Main contractors
Designers & Employers

Training WasteCost®Lite FLOOR

Training Report Generator

Material Exchange

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Reclaim reuse

Budgets v outcomes:

- Don't focus on budgets, instead aim at:
 - Actions and outcomes
 - Actions: 6 events in 6 months,
 - EcoBuild via regional events to Harrogate
 - But this may be the wrong places for installers
 - Outcomes: 100 Installer companies engaged initially via estimators
 - Target: tonnes waste diverted from landfill
 - Evidence: participants diversion data
 - Follow up: is essential

Aim to support Micro SMEs

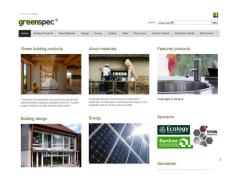
- Business support
 - Joined up activity and learning
- Business Development
 - Optimize, reduce safety margin %, reduce costs, more competitive tenders
 - PQQ: extra added value service offering
 - Or post tender pre-contract or site establishments meetings
 - Opportunities to reduce costs, waste, time,
 - Site Waste Management Plan workshops: enable engagement
- Productivity, Waste reduction, Savings
- Up-skilling, knowledge sharing
- Build Value Added Service to designers
 - to standout from crowd, building relationships with them
- Follow up: see if changes have happened and support ambitions

PMB: Pre meeting brainstorm

- Focus on C Skills, FSP & CFA audience
- Make use of Project partners
- Build on past experience, projects, relationships
- Build on existing resources and tools

PMN: Post Meeting Note

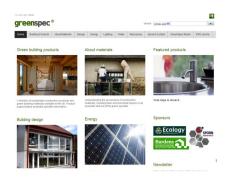
- Aim to support SME and Micro SME
 - CFA Contract Flooring Association
 - AIS Association of Interior Specialists
 - Association of Shop-fitters
- Two distinct groups
 - Domestic: work directly for client
 - Commercial: subcontract to main contractor
 - Challenge is to create a communication route up the supply chain past layers of management to the designers
 - Who my not be interested, or think they know better



Meeting at CFA



- Richard Catt
 - CEO of CFA
 - Former Chair of SFA
- John Butler
 - John Butler Contracts Ltd.
- Tony Mathe
 - Director Hillside Contracts Ltd.



Purpose



- To present project proposal to the prospective audience
- Explore details
- Test the proposal
- Check if it works for them
- Presented:
 - Executive Summery and 1st diagram only

Questions: Who in the SME?

- Who will be the recipient of the training?
- Who will use the software?
- Who will present the RE arguments?
- Estimators may be the right place to start
- The may be able to see the wasteful design if they have drawings
- They may be able to engage the installers

When will it be used?

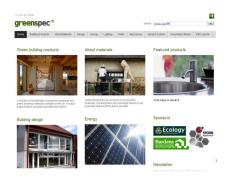
- We are expected to price the spec
 - We would irritate the Tender Reviewer
- Tender stage is too late
 - Ideally sooner but no opportunities
- Post Tender or In sub contract
 - Probably be the best time to address this
 - "Here are some potential savings"
 - "Can't improve those, but can these"
- Ideally (but exceptionally) discuss with designer, educate them in process, convert wasteful to resource efficient design

Project Partners & Their Resources

- Knowledge of own markets
 - Route to market
- Websites
- Membership
 - email lists
 - Audience
- Rooms for events
- Graphic Design departments
- Marketing advice
- IT advice

Construction Skills

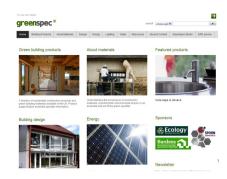
- Grant for training installers
 - Focused activity
 - Can this be the installing SME's estimators?
- Membership email addresses?
 - Training centers/Training venues
 - Training providers
 - Training AV creators
- Meeting venues and room?



FSP



- Flooring Sustainability Partnership
 - Members
 - Initiatives & drivers
 - REAP Resource Efficiency Action Plan
 - Report 007
- Website & tools
 - Diversion from landfill
 - EOL End of Life options tool



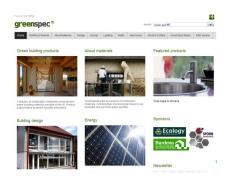
CFA



- Contract Flooring Association
- Champions for this initiative
- 4000 members install floors
- Meeting room?

bre (formerly building research establishment)

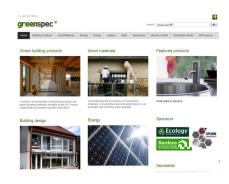
- Championing REAPs
- BREEAM, CfSH, EcoHomes
- smartWASTE
 - waste statistics,
 - hand held computers
- BREMAP Resource Efficiency Businesses Map website
- CRWP Knowledge of wastage %
- More sophisticated but slow version of WasteCostLite®
- SWMP checklist tool
- Meeting rooms



WRAP



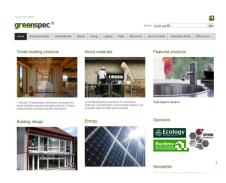
- Waste & Resource Action Program
- Championing REAPs
- WRAP materials websites
- Resource efficiency tools
 - Recycled content calculator
 - Waste Calculator
- SWMP Checklist tools
- Design to reduce waste guide
- Meeting room?



WRAP Tools



- Net Waste Tool
 - http://nwtool.wrap.org.uk/ToolHome.aspx
- Waste To Landfill Reporting Portal
 - http://reportingportal.wrap.org.uk
- Design Of Waste Tool For Buildings
 - http://dowtb.wrap.org.uk
- Design Out Waste Tool For Civil Engineering
 - http://dowtce.wrap.org.uk
- SWMP Tracker
 - http://swmptracker.wrap.org.uk



CPA



- Construction Products Association
- Championing REAPs
- Member Associations
 - Manufacturing sector associations
 - Flooring sectors? Or materials sectors?
 - Member's Members
 - Manufacturers
 - Approved installers
- Building Centre Meeting Venue and training Rooms

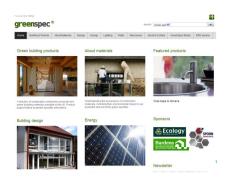






Need to approach

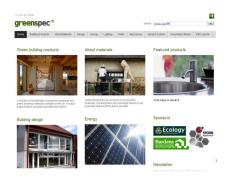
- AIS Association of Interior Specialists
 - Membership group
 - Able to promote
 - Aware of REAPs
 - Engaged with Ska EAM
- ASF Association of Shop-fitters
 - Membership Group
 - Able to promote



FITA



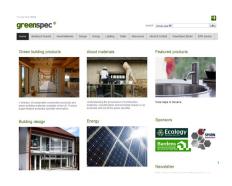
- Flooring Industry Training Association
 - Membership
 - Training Venues
 - Audiences
- Approach them to find coaching expertise if we do not have them
- Consider rolling out to larger audience



CE



- Constructing Excellence Clubs
- Membership
- Accessed via club activities
- Topical meetings
- Case Studies
- RE on their agenda







- Endorse and promote the initiative
- Speak at launch event?
- Encourage engagement to their sectors
- John Butler
 - John Butler Contracts Ltd.
- Tony Mathe
 - Director Hillside Contracts Ltd.







- Responsible Solutions Loughborough
 - Envirowise Packaging guides
 - Packaging SWMP checklists and datasheet
 - Packaging Calculator
 - Packaging waste Toolbox talks
- Responsible sourcing
- Resource efficiency workshop model
 - Main contractors and their supply chain partners

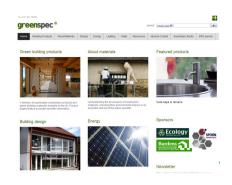






SWMP checklists & datasheets

- Created by Constructing Excellence in SWMP workshops
- Published by DTI in SWMP Voluntary CofP
- Guidance added by GreenSpec
- Made easier to use by non experts in workshops
- Added calculators
- Broadened scope to Packaging waste with Envirowise and Responsible Solutions
- Published on Scribd



GreenSpec



- Website(s) Visitors 48,000/month Jan'12
- Architects Specification writers,
- Resource Efficiency & Waste background
- WasteCostLite®, EE & EC calculators
- Waste specifications & Appendix
- Materials Specifications

GreenSpecDownload.co.uk

- Download Website (launch soon)
 - CPD, Specifications, Calculators
 - LCA/EPD, BIM, etc.
- Bulk email facility with target filtering
 - 10,000 email addresses
- Good use of Scribd, twitter, Facebook, LinkedIN, etc.
 - Membership potential











- 800+ seminar papers over 13 years
- 45 hours on Waste
- 25 hours on Recycling Reuse Recovery
- 10 hours on Eco Retrofit
- 5 hours on Resource efficient design
 - design to reduce waste and to reuse
- Ground floors PPT is the second most popular file
- Jargon buster is the most popular file
- Ground floors is the 2nd

GreenSpec Specifications

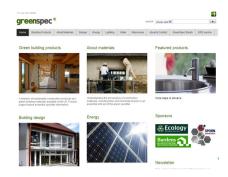
- Waste management Specifications:
 - Construction, Alteration, Excavations,
 Demolition, Landscape, Packaging
 - Demolition Protocol
 - Bill of Pre-demolition Quantities, etc. calculators
 - SWMP Site Waste Management Plan checklists, data sheets, calculators
- Appendix: Material Exchanges, etc.

GreenSpec Calculators Tools

- SWMP checklists,
 - Datasheet Schedules that calculate
- Demolition Protocol
 - Checklists, BoPDQ,
 - Schedules that calculate
- Embodied Energy & Embodied Carbon calculator
- WasteCostlite® calculator

GreenSpec WasteCost lite®

- 1 minute to input
 - Number of buildings, floor area, number of floors, type of construction,
 - Choose which waste to be segregated
- Instantaneous output:
 - Cost of waste from building
 - Cost to segregate waste
 - Money saved by segregating

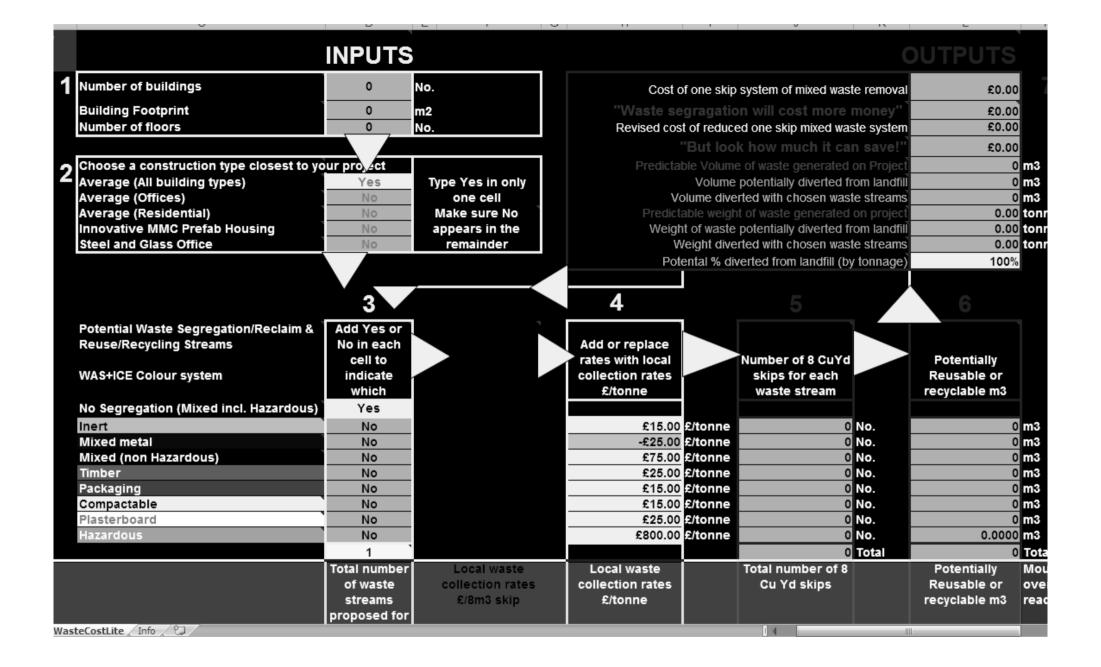


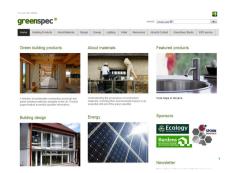


Demonstration

<u>file://localhost/Users/BrianSpecMan/Documents/</u>
<u>ASWSDOCS/GREEN/NGSpec/GreenSpecServices/</u>
<u>GreenSpecWasteCostLite/WasteCostLite(R)B.xls</u>

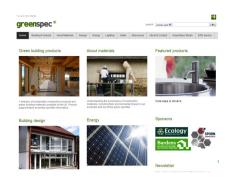








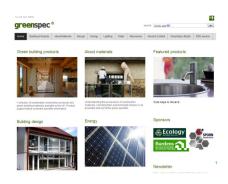
Resource Efficient Flooring Proposal



Particular Skills



- Defra? project some years ago addressed this, check final phase activity: Installers
- Give installers confidence to address environmental issues with their clients
 - Language to use
 - Arguments to adopt
 - Directives, legislation, campaigns, fiscal
- Data to support arguments:
 - WasteCostlite® Floor
 - Focused on costs: a good starting point
 - Materials, accessories, labour, waste, tax



Proposal



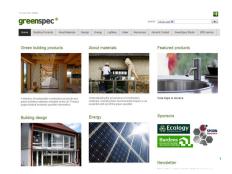
- Raise awareness of resource issues
- Empower Flooring installers and/or estimators to participate in a debate with their clients
 - Issues to debate
 - Counter arguments
 - Rehearse debates
 - Develop confidence
- Provide a manual for future use
 - Record 'Golden Nuggets' for all to use
- Provide compelling evidence
 - Create a waste calculator and report generator
 - Train Installers and/or estimators in its use

Installer's Clients include:

- Domestic (direct relationship possible)
 - Employer,
 - Self manage/procure/build
- Commercial
 - (layers of management barrier)
 - Sub-contractor: if installer is employee
 - Main Contactor, D&BC, MC, CM, DMC, etc.
 - Quantity Surveyor or Buying Department
 - Estimators speak their language: £
 - Designer: Architect/Interior Designer
 - (exceptional opportunities to meet and discuss)

Source of training material

- Take briefing from: (stakeholder meeting)
 - CSkills, FSP, CFA, AIS, ASF, FITA, Ska, BRE and RE Champions
- GreenSpec existing material
 - 800+ seminars
 - Cherry pick appropriate material
 - Update cherry picked material
 - Additional new material
 - Assemble unique combination
- Different emphasis for different audience
 - New material from partners
 - Current data from partners





Resource Efficient Flooring Workshop



Another GreenSpec CPD file to download See www.scribd.com/brianspecman



Content



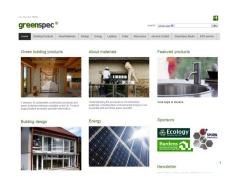
- Resource Efficiency
- Waste Hierarchy 2011
 - Waste Reduction by Prevention
 - Design to Reduce Waste
 - Surplus to Requirements, Return to Stock, Spares for repairs
 - Reclaim and prepare for Reuse
- Sourcing materials
 - Design to Use Reclaimed
 - Design to reuse EOL materials
 - Material Exchange, Architectural Salvage, Construction Reclaim
- ½ W 2 L: Half waste to Landfill
- Refurbishment for longer life

2011 Waste Hierarchy

Prevention Preparing for re-use Recycling Other recovery Disposal

Awareness raising

- Waste Hierarchy
- Reducing landfill capacity
- Waste to landfill reduction targets
- Rising taxes and gate costs of waste
 - Landfill Tax Price escalator:
 - inert v hazardous
- Hazardous waste
- End of Life scenarios:
 - options & alternatives
 - Material Exchange
 - Reuse Social Enterprise









- Respond to: available EAM credits
 - Environmental Assessment Methods
 - Ska Retrofit EAM
 - DREAM, LEED?
- BREEAM & CfSH & EcoHomes
 - Little scope for serious engagement
- Respond to Institution's Syllabus
 - RIBA: national (but only partial application)
 - Interior Design:
 - every course has own syllabus

Interactive Workshop

- Plans of wasteful designs: tabled
 - Delegates identify wasteful practices
 - Promote resource efficient alternatives
- Delegates introduced to and use WasteCostlite® Floor
 - Delegates input project data
 - Tool works out wastage %, m2, £, EE, EC
- Then delegates negotiate with each other
 - as if contractor and designer/client
- We critique the dialogue and advise any improvements to help lead to success
- Cherry pick important messages and record

Issues to debate:

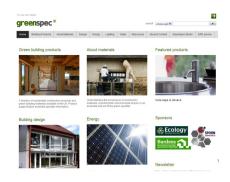
- Reduction in waste in flooring layout
- Costs of waste: materials, accessories, labour, skip hire, landfill tax, waste gate fee, waste treatment,
- Embodied energy and embodied carbon in waste
- Landfill burden
- Resource Efficiency (RE)
 - Alternative uses for surpluses
 - Reuse of reclaimed

Counter Arguments

- Invite designers to participate with their own arguments
- Multiplicity of issues
 - Focus on what you do know and have answers for now
- Develop Responses
- Develop logic to create instant responses to new counter arguments
- Record the best bits for later reuse

Rehearse debates in workshops

- Let the delegates use their own words and arguments and counter arguments
- Review their words and arguments and counter arguments
- Offer guidance on better words, argument and better counter arguments



Don't despair



- It may take a few attempts before progress is made
- Before designers are prepared to hear it or act upon it
- They never admit they don't know and can never be seen to be learning from craftsmen or artisans
- The craftsmen are often regarded as unintelligent
- Don't despair or swear
- Save it for the next battle
- Its important that the issues has been raised with them,
 - now its rattling around in their brain,
 - next time they design, it might come out bite them,
 - and may be influential on the next design.

Recording the Nuggets

- I believe that all actions including failure should lead to improvements
- Wish lists: record the failures
- Review Processes: fix the failures for next time
- Templates include best practice and get reviewed and updated
- Start the next job with the updated templates



Templates



- All the arguments and counter arguments can be recorded in documents that the installer can use and edit according to the next job
- It can include extracts from the WasteCost®lite FLOOR Report Generator
- Turned into a report to accompany the tender up the supply chain to the client
- If Designer are to read it then it needs to be graphic with illustrations





Resource Efficient Flooring Calculator

Provide compelling evidence

- to support debate
- Create a Calculator tool to provide evidence,
- Provide training in its use
- Give the tool away to delegates
- On a USB stick advertising the FSP

New calculator: WasteCost lite®Floor Inputs:

- Floor plans: add room sizes into spreadsheet
- Add flooring material sizes/direction for each room
- Choose setting out rules applied:
 - edge, centered, diagonal, curvy-linear, +ve/-ve, etc.
- Add material costs/m2
- Add accessories costs/m2 /m run
- Add labour costs/m2 costs/m run
- Add minimum order quantity into spreadsheet
- Modify or accept default waste category skip costs bands

New calculator: WasteCost lite®Floor Outputs:

- Calculate: waste £, %, m2
- Calculate embodied energy, embodied carbon in waste
- Calculate: labour costs of wasteful design
- Calculate: waste costs: gate costs, landfill tax, segregation costs, segregation savings.

New calculator: WasteCost lite®Floor Arguments:

- Optimise materials sizes/length to better fit room
 - or visa versa
- Optimise materials size/lengths to fit space to minimise waste
- Minimise material choices to cut minimum order waste quantities in each
- Challenge setting out from middle
- Simplify curvilinear design

Develop calculator

- BRE SMARTWaste & CRWP data
- Link to BREMAP & FSP EoL tools
 - Site postcode: local resources
- Make available on USB stick
- Demonstrate it first
 - Hand out at exhibition seminars
- Turn into iPhone/iPod/iPad APP
 - Other phones too: Android, Blackberry
 - Windows or Open Source APP too
 - RSS feeds to APP
 - Interactive link to central database

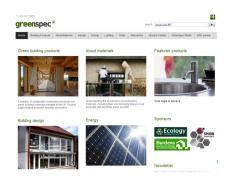
Resource Efficiency Report Generator

- Submit or present to clients
- Data to support designers RE improvements
- Waste Quantities: % & m2
- Hazardous quantities: m3
- Materials Costs: £
- Waste Costs: £ & %
- Embodied Energy in waste
- Embodied Carbon in waste
- Emissions from Hazardous materials and waste
- Waste Reduction Opportunities: % & m2
- Reduced Tender: £
- Charts (easier to read than data tables)
- Drawings (Architects need help with reading)





Resource Efficient Flooring Project Challenge



Challenges



- Getting bums on seats
 - Tradesmen: loss of income in down time
 - Estimators: is it different for them?
 - Visit them: Lunchtime+ CPD seminar, software and coaching
- Capture them on other days out
 - Exhibition visitors
 - Big players, Management, tradesmen unlikely
 - Association Meetings?
 - Obligatory Training days?
- Capture them on site
 - Tool Box talks on sites: make them more than ticking boxes
 - Café van visit small sites: tradesmen not estimators
 - Estimators on post-contract first site meeting
- Assume Marketing wont be easy, may be 1/3 of budget

Project Promotion Opportunities

- Members and Email lists
- Emailing to each partner's email lists
- Mail shots
- Website marketing
- FSP Banner, all other logos in footer

Industry events to tap into

Exhibitions

- Eco Construction
 - EcoBuild March 2013 possible for the launch
 - Does not attract the installers
 - EcoShowcase (6-12 UK wide)
 - GreenBuild Manchester
 - Grand Design (2 London & NEC)
 - 100% Design Sept 2013
 - NEC Interiors 2013
- Self Build
 - Many regional events (10 UK wide)
 - Self Build Centre Swindon (Permanent exhibition, Occasional Events)
- Flooring
 - Harrogate Sept 2013
 - this is a retail show it wont attract installers
- Refurbishment
 - GreenDeal (1)

Workshops at Exhibitions

- FSP will not have a stand
 - Members will
- Book seminar space
 - Run launch seminar(s)
- Leaflet drop on members stands
- Pop up banner on members stands
- Software loaded on member's stand displays and introduction provided to exhibitor
- USB stick: intuitive software handed out

Exhibition Seminar Promotion

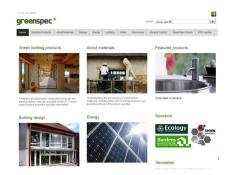
- Collect business cards of interested parties
 - From members stands
 - Add into SMS list
- Invite to event
 - SMS text advanced warning of seminar
 - SMS text seminar starting

Project promotional material

- FSP (banner head logo)
- Construction Skills (footer logo)
- CFA (footer logo)
- GreenSpec (footer logo)
- BRE (footer logo)
- WRAP (footer logo)
- CPA (footer logo)
- RE Champions (footer logos)
- FITA (footer logo)
- CE (footer logo)

Budget (not calculated, prediction)

- **Preparation: 33%-25%**
 - Calculator & Presentation material
- Marketing: 33% 25%
- Promotion of launch and rollout
 - Bums on seats (less emphasis)
- Delivery: 33%-50%
 - Speakers & Premises & Refreshments
 - Visiting Installer companies estimators

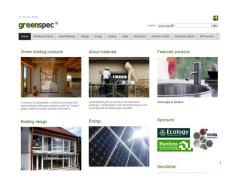




Resource Efficient Flooring Project Follow up

Follow up delegates

- Offer in-house meetings, seminars, demonstrations
- Use tool to collect data and generate reports
- Aim must be to reduce waste to landfill
- Evidence based statistics from users







- Develop Calculator into a mobile APP
- Training Trainers in Training centers
 - to train craftsmen
- AV audio visual tools (stand alone)
 - Toolbox talks for sites
 - To replace tick box exercise
 - Focus on what to do with excess to requirements?
 - Probably the wrong time and focus

Phased development plan

- Each could build on the previous
- Certificates of attendance could be issued
- Complete set should be the aim

Project Ambitions

- Take Briefing (stakeholders)
- Develop Calculator
 - Phase 1: in Excel
 - Phase 2: Phone APP
- Develop Presentation material
 - Phase 1: for Events
 - Phase 2: for trainers and training centers
 - Phase 3: for AV toolbox talks or webinars
- Develop Interactive knowledge sharing exercise
 - Phase 1: for events
 - Phase 2: for trainers and training centers
 - Phase 3: for AV toolbox talks or webinars
- Develop Templates
 - Phase 1: for events in Word Template
 - Phase 2: for Phone APP
- Test run, edit, roll out
 - Phase 1: 6 events, 100 companies
 - Phase 2: 10 training venues, 10 sites toolbox talk
 - Phase 3: 30 sites Toolbox talks

Project Ambitions Phase 1

- Take Briefing (stakeholders)
- Develop Calculator in Excel
- Develop Presentation material for Events
- Develop Interactive knowledge sharing exercise for events
- Develop Templates for events in Word Template
- Test run, edit, roll out
 - 1 launch event(s), 100 companies
 - 5 Membership club presentations

Project Ambitions Phase 2

- Develop Calculator Phone APP
- Develop Presentation material
 - for trainers and training centers
- Develop Interactive knowledge sharing exercise
 - for trainers and training centers
- Develop Templates for Phone APP
- Test run, edit, roll out
 - 10 training venues, 10 sites toolbox talk

Project Ambitions Phase 3

- Take Briefing (stakeholders)
- Develop Presentation material
 - for AV toolbox talks
- Develop Interactive knowledge sharing exercise
 - for AV toolbox talks
- Test run, edit, roll out
 - Say 30 sites Toolbox talks

Potential Outputs

- Presentation material
 - Seminars/interactive workshops
 - Toolbox talks: to replace tick box exercises
 - Its too late to be useful here
- Training materials
 - Trainings/Hands on practical workshops
- Project Design Guidance
- Specification & Guidance
- Tools: Calculator and Report generator
- Websites & Webinars
 - Few installers have time for internet
- Handouts: Design guidance for future use
 - Hand to designers





Resource Efficient Flooring Wider promotion

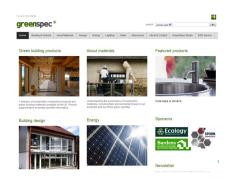
Not necessarily CITB Construction Skills funding eligibility

Presentation material

- Presentation material
- Interactive workshop materials
- Accreditation
- Training materials
- Posting on websites (passive)
- Promotion of them (active)
- Presentations (active)
- Content

Presentation Materials

- Existing material enhanced
- New material
- Stand alone webinars?
- Standalone PPT or PDF
- Handout versions
- Trainer versions



Accreditation



- RIBA Manufacturers CPD seminar accreditation (aimed at designers)
 - Expensive & 2 year Renewal cycle
 - but limited scope
- RIBA Accredited (presentation materials)
 - GreenSpec & TGR have SBS accredited
 - Resource Efficiency is part of that
 - This material could be accredited
 - Not essential
- CPD network accredited speaker not presentations











- Train the trainer
- Trainer version presentations
- Core material
- Encourage additional dialogue
- Bespoke RE Case Studies
- Feedback loops

Posting presentation materials (Passive)

- Scribd (short term, move to GS Download, tasters long term)
- GreenSpec: Website:
 - Design, Materials, Resource Efficiency
- GreenSpec Download (soon)
 - Presentations,
 - Calculators, Specifications, Appendix
- Others:
 - Construction Skills
 - Flooring Sustainability Partnership
 - Members
 - Contract Flooring Association
 - Members

Promoting presentation materials (active)

- Internet
- Email
- Institutions
- Association
- Higher Education
 - Regional college course
 - University courses

Promoting presentation materials: Internet (active)

- Scribd > 200 followers
 - > Twitter > Facebook
- Twitter > 1675 Followers
 - > Lists > 50+ lists > 8700 members
 - > Twibes
 - > Favstar
 - > Topsy
 - > AOL Lifestyles
 - > Linked In > 750+
 - > Plaxo
- Facebook (BrianSpecMan & GreenSpec)
- Others: many not exploited yet

Promoting presentation materials: Email (active)

- Participating organisations
- GreenSpec 10,000 email addresses
 - GreenSpec Download: email service
- RIBA membership CPD email (35,000+)
 - National or regional or local
 - Other institutions
- Interior Designers
- Artisans
- Estimators (RICS?)

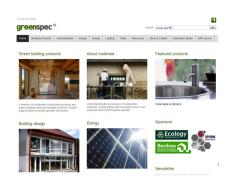
Presentations (active)

Seminars

- Exhibitions (UK, Flooring, Eco, Self Build)
- Trade groups events:
 - AIS, ASF, CFA, FSP, FITA, Ska,
- Universities (want free seminars)
- Technical Colleges/Craft Colleges: ???
- Sustainability Training centers:
 - SmartLIFE, SusCon, UEA, BRE, etc.
- Institution Regional/local membership events
 - RIBA, RICS, ICE, CIOB, CIAT, CE
- Membership groups local CPD events
 - AECB, TGR, others

Different Audiences

- Contractors/Sub contractors/Artisans/Estimators
 - Engagement with designers/clients
 - Consider the options
 - Waste reduction, segregation, money saving
 - Material Exchange
- Designers
 - Emphasize they create the waste by their designs
 - Very graphic
 - Explicit examples
 - Practical: example layouts waste generated alternative designs, alternative sizes, alternative materials,
 - Ensuring equivalency of specification
 - Avoiding substitution with inferior



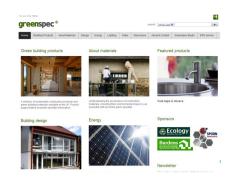
Report generator 2 Documents



- Might not be paper but part of the APP
- Installers:
 - How to engage with the clients/designers on resource efficiency issues
 - What statements to make
 - What questions to ask

Designers:

- How to engage with installers on resource efficiency issues
- How to respond positively to the challenge









Design Principles

- Tables of standard sizes (like Brick Development Association brickwork tables)
- CAD 3D BIM additional intelligence
 - Waste warning built into materials
 - Materials as 'objects': know their own size
 - so awareness raised when applying
 - Warning when wastage factor is high %

Specification Guidance

- Specification Clauses
 - Includes sizes available
 - Roll width and length
- Guidance Notes
 - Tables of multiples
 - Appendix of reclaim sector
 - Lists of materials exchanges
- SWMP & Waste clauses
- 'Not-new' clauses permit reclaim and reuse





Resource Efficient Installers Wider roll out

CITB Construction Skills funding eligibility



Other trades



- This project can be recreated for all other trades/sectors
- WasteCostlite® OTHERS
- Same activities with different content

REAP Resource Efficiency Action Plans Trade Skills: Follow Up

WasteCost®Lite	
Calculator	

Flooring

Ceilings

Partitions & Linings

FF&E Furniture

Other

Resource Efficiency Report Generator

Submit or present

Data to support designers

Waste Quantities % & m3
Hazardous quantities

Materials Costs £ Waste Costs £ & %

Embodied Energy in waste

Embodied Carbon in waste

Reduction Opportunities
Reduced Tender £

Emissions from Hazardous

Charts

Drawings

Arguments for RE

Client Responses

Counter arguments

Counter Responses

Response anticipation

Counter argument anticipation

Recording new arguments

Collecting disseminating arguments

Mobile APP

Training coaching

Resource Efficiency; bigger picture

Waste generating designs

Resource efficient designs

Craftsmen v Client Dialogue coaching

Main contractors
Designers & Employers

Training WasteCost®Lite FLOOR

Training Report Generator

Material Exchange

108

Reclaim reuse



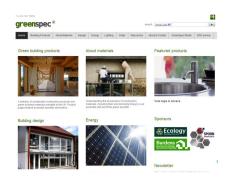


Resource Efficient Flooring Skills Project

Construction Skills funding FSP, CFA and GreenSpec







Feedback



- These files are created by generalists with a big dollop of green flavour
- These files are updated from time to time
- We are not experts so from time to time these file may get out of date or may be wrong.
- If you feel that we have got it wrong please let us know so we can put it right







- Brian Murphy BSc Dip Arch (Hons+Dist)
- Architect by Training
- Specification Writer by Choice
- Greening up my act since 1999
- Founder of <u>www.greenspec.co.uk</u>
- And <u>www.greenspecdownload.co.uk</u>
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- Twitter: http://twitter.com/brianspecman
- Facebook:

http://www.facebook.com/pages/GreenSpec/77375462337

Rev	Comment	Date	Initials
A00	Created on route to CSkills meeting Brain storm in car en route to CSkills Update after CSkills meeting Issue and Email ARB	24/08/2012	BRM
A01 %%	Added revision table Added waste hierarchy 2011 Minor revisions Added CRUK	28/08/2012	BRM
A01	Updated WRAP tools Updated existing resources SWMP checklists Added text report template Added executive summery at front Issue and email to ARB	30/08/2012	BRM
A02	Update for CFA and Installer meeting Update after CFA and Installer meeting Issue to ARB, RC & 2 Installers	21/09/2012	BRM
A03	Create Executive summery Custom Show for FSP committee	06/11/2012	BRM
	Update scribd and download Print for Cskills meeting	31/01/2013	