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# WMDs Waste Management Difficulties

# WMDs

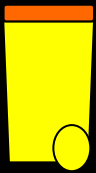
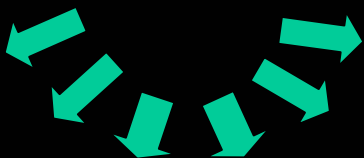
## Waste Management Difficulties

- Waste Definitions
- ODS Ozone Depleting Substances
- WEEE Waste Electronic & Electric Equipment
- RoHS Restriction of Hazardous Materials
- Flytipping into and out of skips
- Fire Smoke Toxins and Dioxins
- Domestic waste & Domestic Hazardous waste
- HazRed Hazard Reduction

# WMDs

## Waste Management Difficulties

- **Waste Definitions**
  - Hazardous Waste
  - Stable Non-reactive Hazardous Waste
    - Gypsum
  - EWC European Waste Catalogue
- **ODS Ozone Depleting Substances**
  - Violet Materials
- **WEEE Waste Electronic & Electric Equipment**
  - White goods
  - IT
- **RoHS Restriction of Hazardous Materials**
- **Flytipping into and out of skips**
- **Fire Smoke Toxins and Dioxins**
- **Domestic waste & Domestic Hazardous waste**
- **HazRed Hazard Reduction**



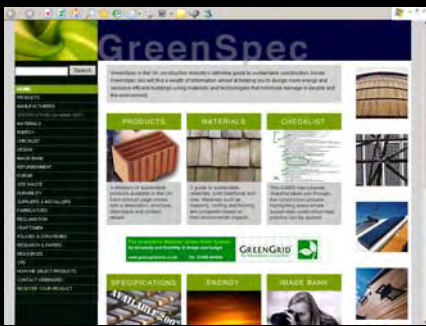
Pathway past Inert Skip



**Inert Skip is spoiled by food scraps being added**

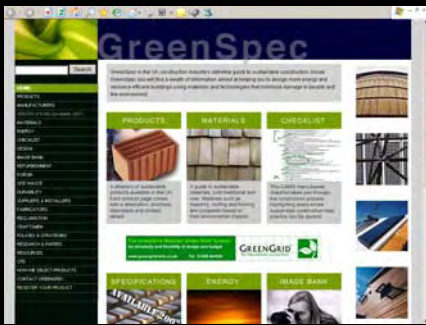
**Relocate Inert Skip and add waste bin in pathway**

**On-site Practice:  
Intelligent bin and skip locations**



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Prevention is  
better than cure



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# Waste Management & Minimisation

Application leads to results

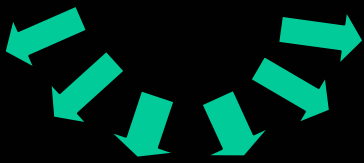
# Considerate Contractor Scheme

- Public consultation and Community engagement
- Engage with tenants
- Treat with respect whether deserved or not
- Keep informed: meetings and newsletter
- Give them choices don't enforce
- Collect their waste first
- 106 Agreements could be proactive solutions
- Set up bring scheme near site
- Inform them of LA services and facilities
- Segregate your own waste
- Set up materials exchange near site

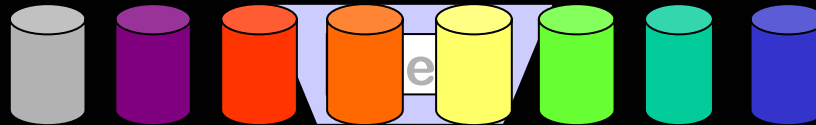
# SWMP

- **Site Waste Management Plans**
- **Adapt the Voluntary Code of Practice**
- **Analyse probable arisings, proposed methods and disposal routes**
- **Record on Checklist and Datasheet**
- **For EA scrutiny**
- **For staff to operate with**





## Window Deconstruction



Timber, aluminium, steel or PVC frames,  
Plastics, Gaskets, metal fixings, fasteners, Ironmongery,  
lead cams, sealant, putty

Glass Skip just far enough away  
to ensure other components  
do not get into same skip

Local but not too local:  
Just out of reach



# Window Dismantling

Inert Skip spoiled by non-inert waste

# Easy Wins: Domestic waste

- In good repair: Material Exchange
- Metals: Scrap value
- WEEE: Commercial WEEE processors
- IT: Charity IT Reuse or Commercial IT Reuse or recycling
- Furniture: Community Furniture Recycling
- Carpet: Petrochemical: Take-back
- Carpet: Natural: Compost

# Domestic Hazardous

- Medical drugs, sharps, swabs: BioHazard
- Nappies and sanitary waste: Biohazard
- Animal and human waste: Biohazard: FS
- Batteries: lower demand uses
- Lights: WEEE recyclers
- Garden chemicals: HazWaste
- Kitchen Bathroom cleaning chemicals



# Domestic Hazardous

Segregate out of other waste streams

# Domestic: Bulky

- Furniture
- Bedding
- Carpets
- DIY waste

# Easy Wins: Building Alterations

- **Masonry: Hardcore & Mulch**
- **Metals: scrap value**
  - Copper pipe
  - Wiring
- **Timber: reuse as timber**
  - Recycle as chipboard
  - Recover as fuel
- **Windows: Repair and Reuse**
  - flat glass to thermal insulation
- **Doors: Refurb & Reuse**

# Easy Wins: Landscape waste

- Grass: Compost
- Leafs: separate 2 years compost
- Green Waste Trimmings: Compost
- Turf: Loam
- Topsoil: Compost
- Subsoil: blend with compost make topsoil





**Green Waste + Time = Compost**

Establish community Composting Network



# Landscape Trimming Waste

Spoiled by public access & domestic waste © NGS

# Recreational Drug Paraphernalia

- PPE is essential
- Care about deliberate malicious attempts to wound
- Colour coded Medical/sharps waste collection containers (First Aid same)

# Solutions: Asbestos

- Decanting tenants
- Specialist licensed contractors
- Promotion of efforts to keep all healthy
- Educate and engage
- Don't hide activity



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# Waste Drivers Time Line

Directives,  
Legislation,  
Regulations,  
Codes

Int. Treaties

Montreal  
Protocol  
Ozone

# Key Legislative Drivers Timeline

EU directive

UK Law

Control of  
Asbestos at  
Work

1983	1984	1985	1986	1987	1988
------	------	------	------	------	------

Fiscal

Targets & Bans

Standards

EU directive

# Key Legislative Drivers Timeline

Construction Products Regulations

Hazardous Waste Directive

UK Law

Environment Protection Act  
Duty of Care

Controlled Waste Regulations

CHIP Regulations

CDM Regulations

COSHH Regulations

1989	1990	1991	1992	1993	1994
------	------	------	------	------	------

Fiscal

Targets & Bans

Standards

BS 7541  
DofC

BS 7750  
EMS

# Key Legislative Drivers Timeline

EU directive

EU Regs  
ODS

UK Law & Co

Special  
Waste  
Regs

COSHH  
ACofP

Landfill Tax  
Regs

Packaging  
Producer  
Responsibility  
Regs

Packaging  
Essential  
Requirements  
Regs

Contaminated  
Land  
Regulations

1995

1996

1997

1998

1999

2000

Fiscal

Targets & Bans

BS EN  
45014

Movements

Brownfield  
site  
movement



# Key Legislative Drivers Timeline

## EU directive

RoHS Directive

WEEE Directive

## UK Law

ODS Regs

Anti-Social Behavior Act

WEEE Regulations

Clean Neighbourhoods & Environment Act

RoHS Regulations

Packaging Waste Regs

Landfill Regs

End Of Life Vehicles Regulations

Hazardous Waste Regulations

Lorry driver working practices Regulations

WEEE Regulations

2001

2002

2003

2004

2005

2006

## Fiscal

Climate Change Levy

Landfill Tax Introduced

Landfill Tax Increase

Landfill Tax Increase

Landfill Tax Increase

Landfill Tax Increase

## Targets & Bans

Ban On Whole Tyres To Landfill

Ban On Co-disposal

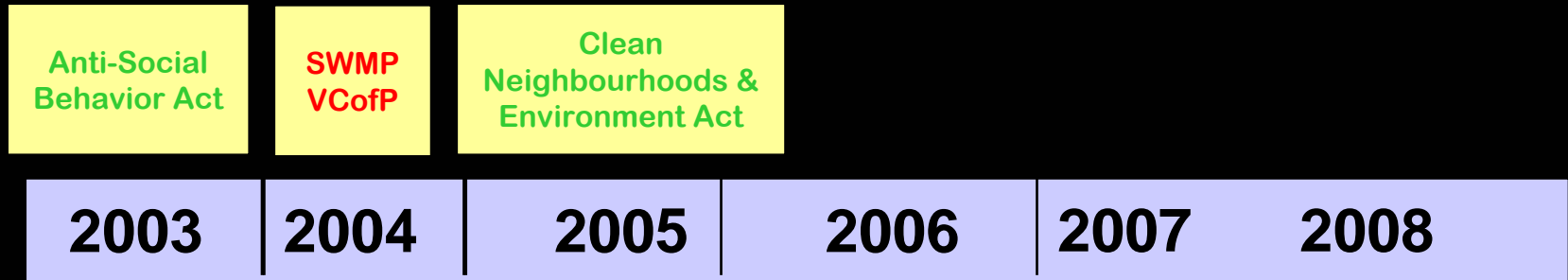
Ban On Shredded Tyres To Landfill

Biodegradable Targets

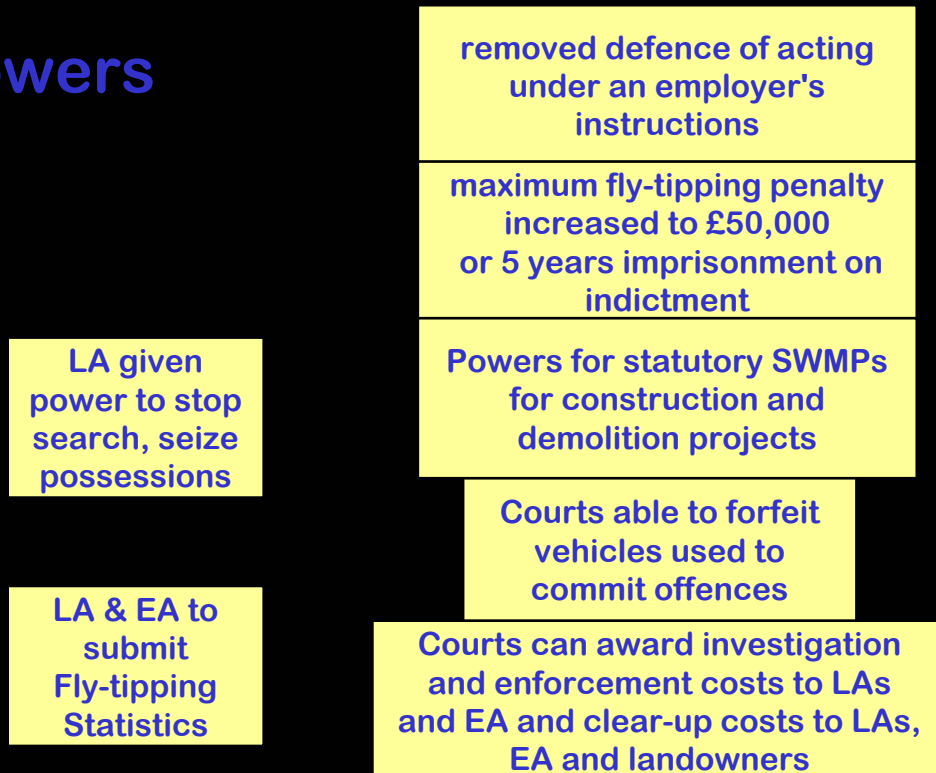
# Fly-tipping & SWMP Timeline

## UK Law & Regs

## Consultations



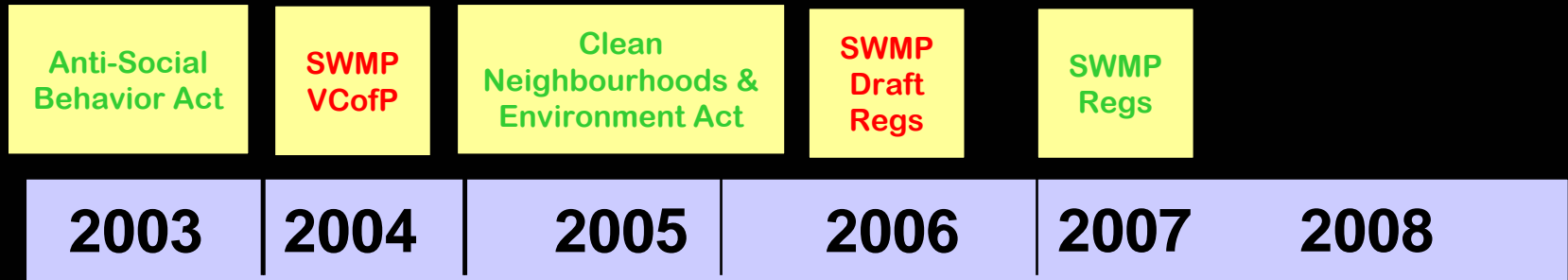
## Powers



# Fly-tipping & SWMP Timeline

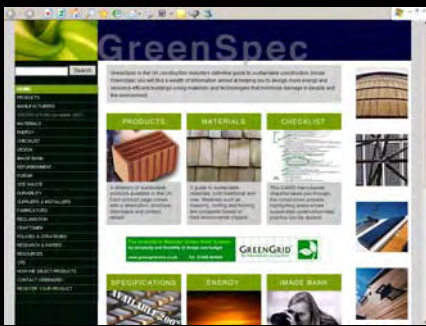
## UK Law & Regs

## Consultations



## Powers



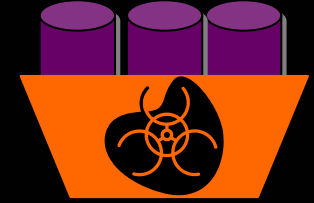


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# Waste Definitions

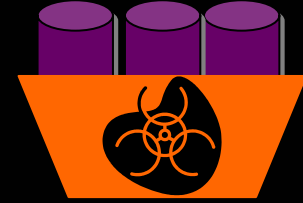
Site Waste Management  
General Definitions

© NGS 2004-6 Brian Murphy



# Hazardous Waste

- Waste whose characteristics cause them to be dangerous or difficult to dispose of such as:
- Explosives, flammable, emits a flammable gas, oxidising, toxic (poisonous harmful), infectious, corrosive or a chemical irritant, reactive, ecotoxic.
- EA's definition



# Hazardous Waste

- **Contaminated Subsoil & Rubble**
  - containing oils and asbestos, etc.
- **Paints (synthetic) & Tins with residue**
  - some natural paints are compostable
- **Solvents & Oils**
- **Batteries**
- **Discharge luminaires**
- **Preservative treated timber (E.g. CCA & Creosote)**



# Bunded area for oil leak

but spills occur daily next to vehicle being filled



# Refurbishment Waste

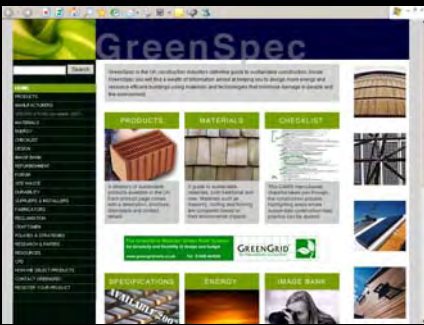
Any Car Park Refurb site across the country





**Decoration Waste** Paint Pots Returned

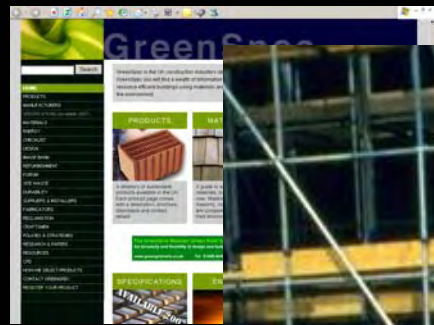
Carillion UoH site © Carillion



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# Waste Gypsum

Waste Category  
Landfill Issues



al  
ication

[spec.co.uk](http://spec.co.uk)



# Gypsum Plasterboard Waste

12/12/2006

© NGS 2006 Waste Management Difficulties

Any fit-out or new-build site across the country © BRE

# Stable Non-Reactive Hazardous Waste

- **Examples**

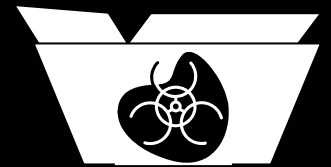
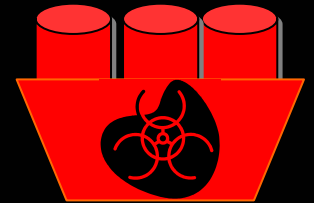
- **Asbestos**

- **Gypsum** (EA at Kier EPIC Jan 2005)

- **Can be stored in separated cells in landfill site**

- **if the landfill site has a separate cell**

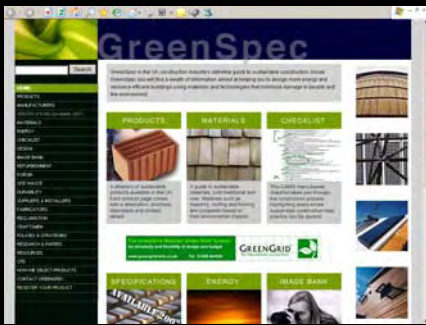
- **and a special licence to receive it**





# Discharge Luminaires

Purpose made waste collection container



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# EWC European Waste Catalogue

[http://www.environment-agency.gov.uk/business/444217/444663/landfill/355572/?lang=\\_e](http://www.environment-agency.gov.uk/business/444217/444663/landfill/355572/?lang=_e)

Or

Google 'European Waste Catalogue'



You are in: Business > How we regulate your business > Directives > The Landfill Directive > European Waste Catalogue  
I'm looking for...

## Business and industry

The Landfill Directive

See also...

This page has the following theme:  
Green business

We are not responsible for the content of other web sites.

### The European Waste Catalogue

The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced.

The EWC is referred to in a number of EU Directives and Commission Decisions regarding waste management.

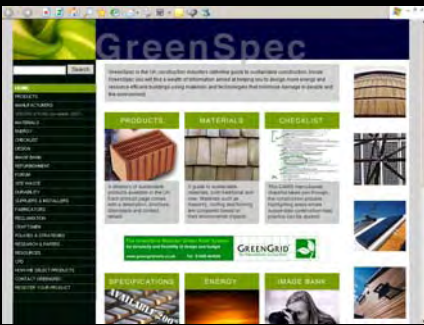
The UK and other member states are fulfilling their requirement to integrate the catalogue into their domestic legislation. One example of this in the UK is the requirement to make a reference to an EWC code on all Duty of Care Transfer Notes.

The EWC has been subject to a number of amendments since the initial list of wastes was produced.

- » [European Union - Official version of the EWC](#)  
A consolidated version of the EWC from the European Union website.
- » [EWC Commission Decision](#)  
The European Union Commission Decision 2001/573/EC 23 July 2001
- » [Regulatory guidance note 14 - Duty of Care and the European Waste Catalogue \(Acrobat, 21KB, 1 min\)](#)  
Interim guidance for operators and Environment Agency staff.

- 16 11 01\* carbon-based linings and refractories from metallurgical processes containing dangerous substances
- 16 11 02 carbon-based linings and refractories from metallurgical processes others than those mentioned in 16 11 01
- 16 11 03\* other linings and refractories from metallurgical processes containing dangerous substances
- 16 11 04 other linings and refractories from metallurgical processes other than those mentioned in 16 11 03
- 16 11 05\* linings and refractories from non-metallurgical processes containing dangerous substances
- 16 11 06 linings and refractories from non-metallurgical processes others than those mentioned in 16 11 05
- 17 CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)**
- 17 01 concrete, bricks, tiles and ceramics**
- 17 01 01 concrete
- 17 01 02 bricks
- 17 01 03 tiles and ceramics
- 17 01 06\* mixtures of, or separate fractions of concrete, bricks, tiles and ceramics containing dangerous substances
- 17 01 07 mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06
- 17 02 wood, glass and plastic**
- 17 02 01 wood
- 17 02 02 glass





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# Ozone Depletion Potential

# ODS Ozone Depleting Substances

- Thermal Insulation: extruded plastics
- Refrigerants: liquids/gases
- Fire extinguishing systems: gases
- Silicone chip: cleaning fluid
- Since OD was discovered and the causes identified OD Thermal Insulation manufacturers continued to make OD plastics for 2 more decades



# Fridges + White Goods

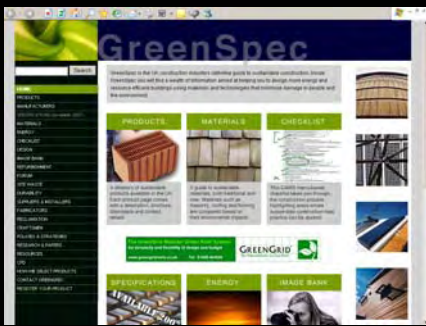
Dumped in the street; Fridge & Freezer ODP in refrigerants



**Ozone O<sub>3</sub> Depletion Potential**  
1980's to 2004 CFC HCFC HFA HFCs

# CFC free

- What about:
- HCFC
- HFAs
- HFCs
- ODP Ozone Depletion Potential
- GWP Global Warming Potential
- GHGP Green House Gas Potential



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# Violet Materials

why we need to stop  
specifying them  
some alternatives

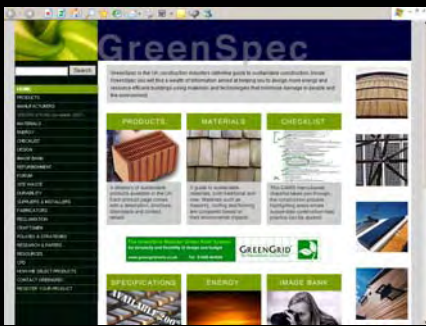
# ODP v GWP

Substance	Type	Montreal Protocol	ODP R11=1	GWP CO <sub>2</sub> =1
R11	CFC	Yes	1	1500
R22	HCFC	No	0.05	510
R125	HFC	No	0	860
Wider Group	HFA		As HFC & HCFC	As HFC & HCFC
H1301	Halon	Yes	10	5800

# ZODP Zero Ozone Depletion Potential

- But what about Green House Gases
- Global Warming Potential GWP
- This is often worse than ODP
- We have had some good news about Ozone layer holes recovering and repairing themselves
- But is it a blip?





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# WEEE

## Waste from Electrical and Electronic Equipment.

# WEEE Waste from Electrical and Electronic Equipment.

- WEEE Directive 2002/96/EC
- mandates the treatment, recovery and recycling of electric and electronic equipment
- 90% currently ends up in landfills
- 13<sup>th</sup> August 2006 implemented in UK
- All applicable products in the EU market must pass WEEE compliance
- and carry the “not in Wheelie Bin” sticker

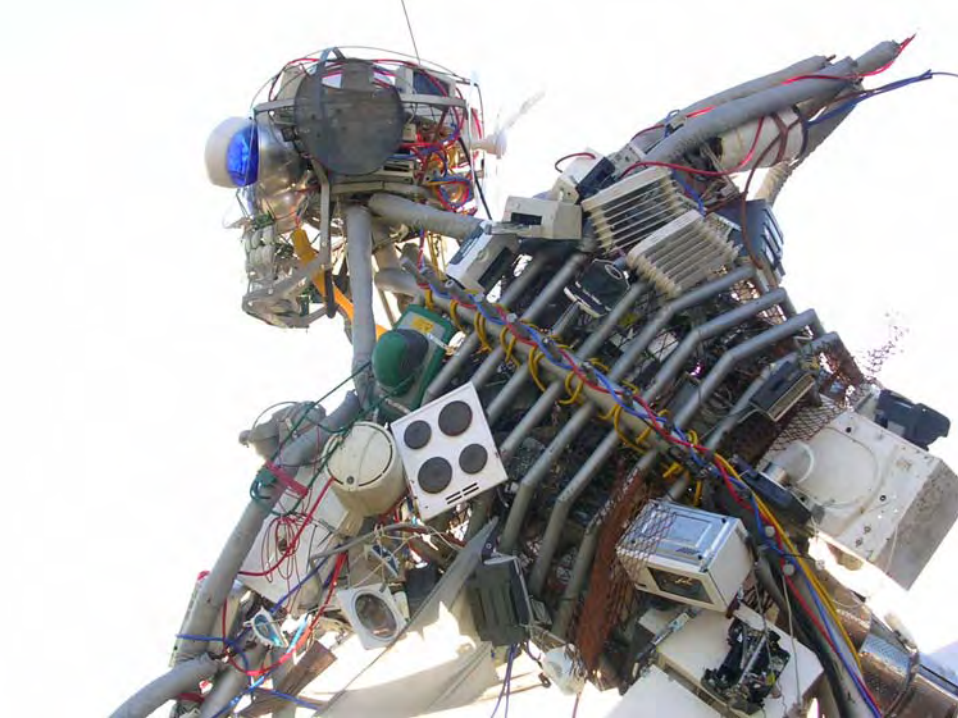


**WEEE throw millions**

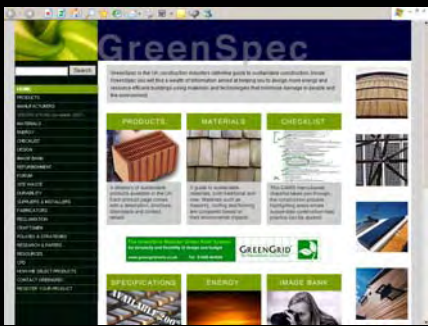
Mobile Phones fashion item Black is sooooo unkoool

# WEEE

- **White Goods**
  - **Fridges & Freezers**
- **Brown Goods**
- **Computers & IT**
- **Lighting components: discharge lamps**





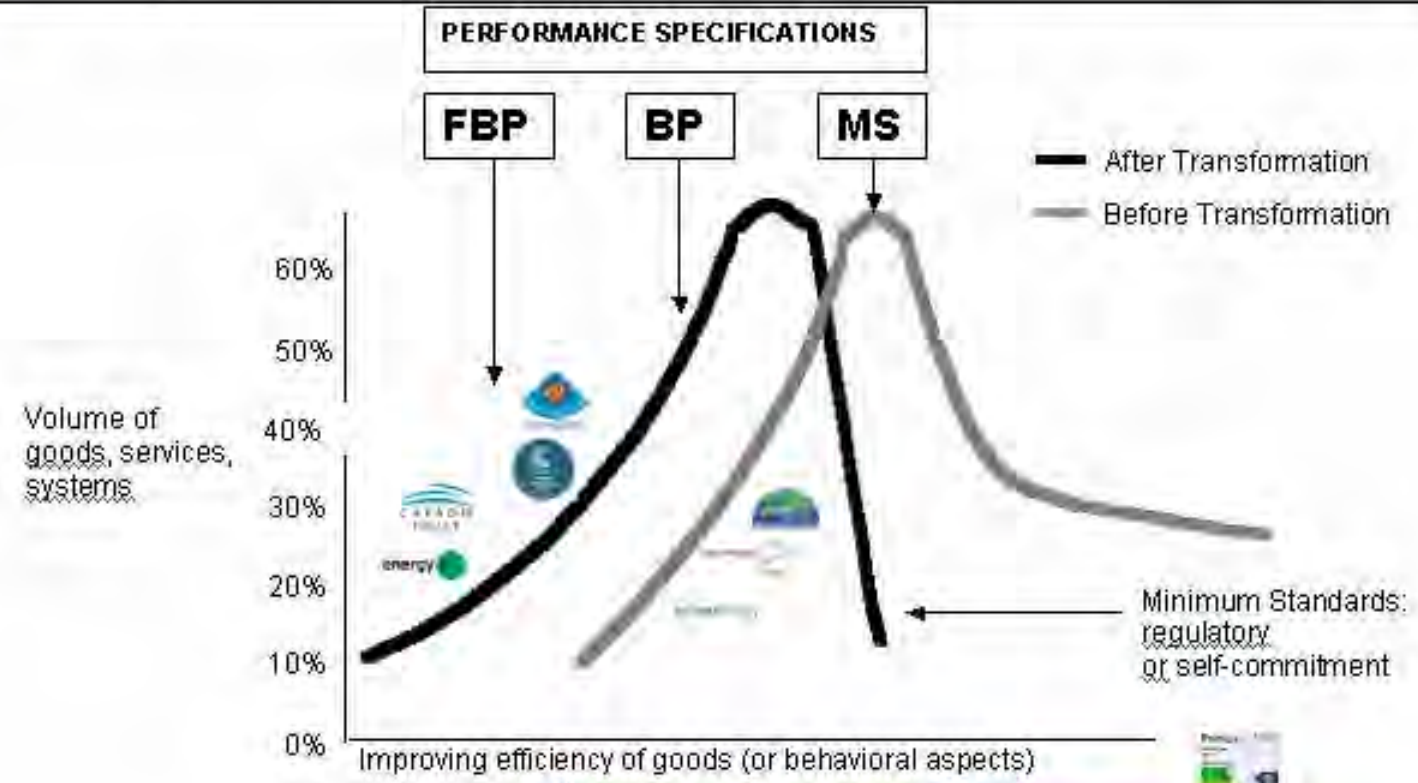


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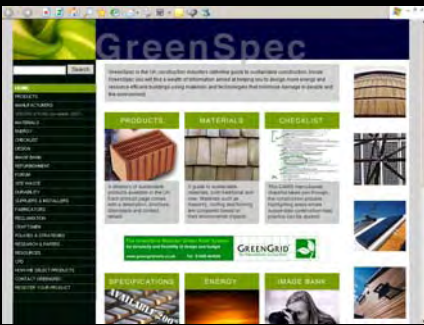
# White Goods



Energy		Washing machine
Manufacturer		
Model		
<b>More efficient</b> A B C D E F G <b>Less efficient</b>		<b>A</b>
Energy consumption kWh/cycle <small>(based on standard test results for 60°C cotton cycle)</small> <small>Actual energy consumption will depend on how the appliance is used.</small>		~1.23
Washing performance <small>A: Higher; G: lower</small>		A B C D E F G
Spin drying performance <small>A: Higher; G: lower</small> <small>Spin speed (rpm)</small>		A B C D E F G 1400
Capacity (cotton) kg		5.0
Water consumption		3.5
Noise (dB(A) re 1 pW)	Washing Spinning	52 77
<small>Further information is contained in product brochures.</small>		







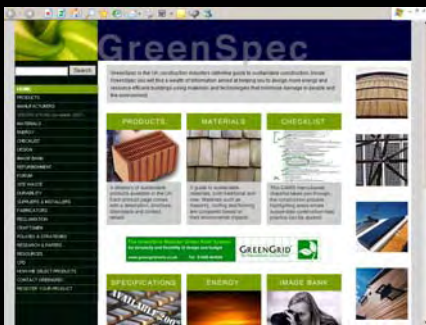
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# RoHS

Restriction of Hazardous  
Substances

# RoHS Restriction of Hazardous Substances

- RoHS Directive 2002/95/EC
- also known as Lead-Free
- restricts the use of six hazardous materials found in electrical and electronic products
- 1st July 2006 implemented in UK
- All applicable products in the EU market must pass RoHS compliance
- RoHS impacts the entire electronics industry



# RoHS 6 materials



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- $Cd \leq 100$  ppm
- $Pb \leq 1000$  ppm
- $Cr VI \leq 1000$  ppm
- $PBB \leq 1000$  ppm
- $PBDE \leq 1000$  ppm
- $Hg \leq 1000$  ppm

# Impacted under RoHS Directive

- **Large household appliances:**
  - refrigerators, washers, stoves, air conditioners
- **Small household appliances:**
  - vacuum cleaners, hair dryers, coffee makers, irons
- **Computing & communications equipment:**
  - computers, printers, copiers, phones
- **Consumer electronics:**
  - TVs, DVD players, stereos, video cameras

# Impacted under RoHS Directive

- **Lighting:**
  - lamps, lighting fixtures, light bulbs
- **Power tools:**
  - drills, saws, nail guns, sprayers, lathes, trimmers, blowers
- **Toys and sports equipment:**
  - videogames, electric trains, treadmills
- **Automatic dispensers:**
  - vending machines, ATM machines

# RoHS Exemptions

- **Currently exempted from RoHS compliance**
- **Large stationary industrial tools**
- **Control and monitoring equipment**
- **National security use and military equipment**
- **Medical devices**
- **Some light bulbs and some batteries**
- **Spare parts for electronic equipment in the market before 1<sup>st</sup> July 2006**

# RoHS Guide

- [www.rohsguide.com](http://www.rohsguide.com)
- become better informed
- before contacting RoHS compliance specialists



- » [Home](#)
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- » [RoHS Compliance FAQ](#)
- » [RoHS Testing](#)
- » [Other RoHS Initiatives](#)
- » [RoHS / WEEE Books](#)
- » [RoHS / WEEE Resources](#)
- » [RoHS News](#)

## Books on RoHS Compliance & Lead-free Electronics


Bestselling books others have bought on RoHS and WEEE compliance:



**RoHS, WEEE and Lead Free**  
**Zero To Green In Six Months**

Ray Franklin


at RoHswell.com



**Implementing Lead-Free Electronics**

Jennie S. Hwang

**Best Price \$81.58**  
or Buy New \$93.95

Buy from 

[Privacy Information](#)



**Handbook of Lead-Free Solder Technology for Microelectronics Assemblies**

Karl J. Puttlitz, ...

**Best Price \$197.64**  
or Buy New \$227.95

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**Lead-free Electronics**

Sanka Ganesan, Mic...

**Best Price \$89.95**  
or Buy New \$99.95

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### [WEEE compliance scheme](#)

Are you obligated under WEEE? Find out how we can help now.

### [WEEE Compliance Scheme](#)

Valpak is the one stop shop solution for all aspects of WEEE.

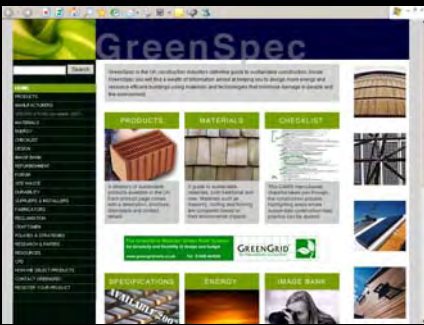




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# Green Personal Computers

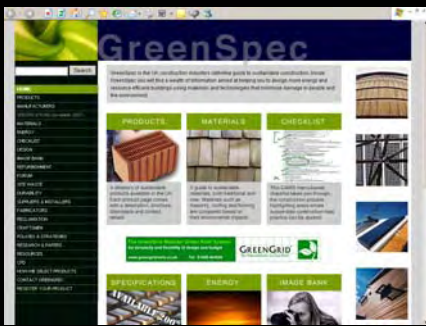
IAMECO



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# Green Personal Computers

IAMECO



[www.greenspec.co.uk](http://www.greenspec.co.uk)

# HAZRED

[www.hazred.org.uk](http://www.hazred.org.uk)

# HazRed Hazard Reduction

## HAZRED [www.hazred.org.uk](http://www.hazred.org.uk) Working with small businesses to reduce hazardous waste



EV HAZRED

- Project Background
- News & Events
- Taking Part
- Hazardous Waste

HAZRED is a three-year European project co-funded by the [EU Life Environment programme](#), which aims to help small and medium sized enterprises (SMEs) prevent and reduce their production of [hazardous wastes](#), saving them money in the process.

The project will work with [six key industry sectors](#) to set hazardous waste reduction targets and develop waste reduction plans to demonstrate the benefits of a sector-led approach and inform the practices of other EU member states.

The Environment Agency is leading the HAZRED project in partnership with the Scottish Environment Protection Agency, the Irish Environmental Protection Agency, the Welsh Assembly Government, Envirowise, the Groundwork Foundation, SafetyKleen, and the Waste Recycling Group.

This website includes detailed information on the [HAZRED project](#) and guidance for businesses interested in taking part.

HAZRED is now recruiting businesses to take part in the project. Visit the Taking Part section to download an application form.



HAZRED is an EU Life-Environment project



[l'information](#)



[Informationen](#)



[Información](#)



[Le informazioni](#)



[Gwybodaeth](#)

- Places
- Europa
  - EEA Home
  - EIONET
  - CIRCA Forum

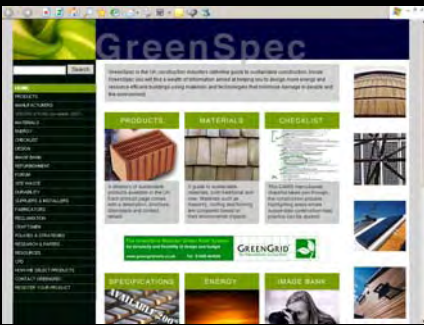
- Project Background
- Aims & Objectives
  - Priority Sectors
  - Project Partners
  - Timeline

- News & Events
- News Archive
  - Newsletter

- Taking Part
- Construction
  - Metals
  - Motor Vehicles
  - Photographic
  - Chemicals
  - Machinery

- Hazardous Waste
- Legislation
  - Useful Resources

Partner Area



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# NETREGS

[www.netregs.gov.uk](http://www.netregs.gov.uk)



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- » NetRegs e-alerts
- » NetRegs SME-environment 2005
- » About us
- » Latest REACH news

We are not responsible for the content of other web sites.

## NetRegs - environmental guidance for your business

NetRegs provides **free environmental guidance** for small businesses in the UK. We will help you to understand what you need to do to **comply with environmental legislation** and protect the environment. We may even help to **save you money** by showing you ways to use your resources more efficiently!



### Guidance by business type

[Agriculture](#), [Catering and accommodation](#), [Construction](#), [Offices](#), [Recycling](#) ..... [All business types](#)



### Guidance by environmental topic

[Air](#), [Business efficiency](#), [Nature conservation](#), [Energy](#), [Hazardous substances](#), [Land](#), [Noise, dust and odour](#), [Packaging](#), [Permits and licences](#), [Waste](#), [Water](#) [All topics](#)



### Environmental legislation

[Current legislation lists](#)  
[Future legislation](#)



### Useful links

[Application forms and guidance](#), [Business support](#), [Government and regulators](#), [Trade associations](#) ..... [All topics](#)

Keep up to date with changes in the law that may affect your business - register today

**e-alerts:**  
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e-alerts

# EWC European Waste Catalogue



[www.greenspec.co.uk](http://www.greenspec.co.uk)

# Flytipping

**DEFRA 2005/6  
Clean Neighbourhood and Environment Act  
Anti-Social Behaviour Act  
Environment Protection Act: Duty of Care, SWMP**





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# Flytipping

DEFRA 2005/6

Clean Neighbourhood and Environment Act

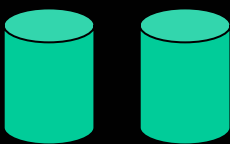
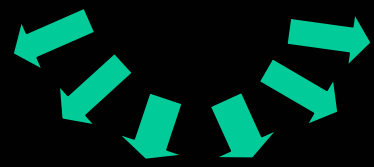
Anti-Social Behaviour Act

Environment Protection Act: Duty of Care, SWMP

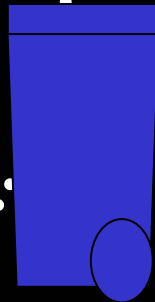
**Flytipping into and out of skips**

# Flytipping

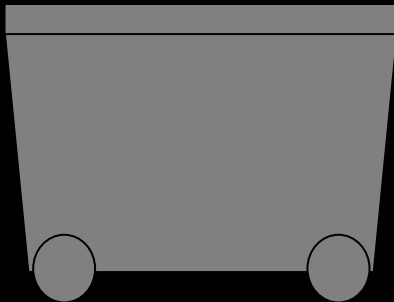
- A fly-tipping incident every 35 seconds



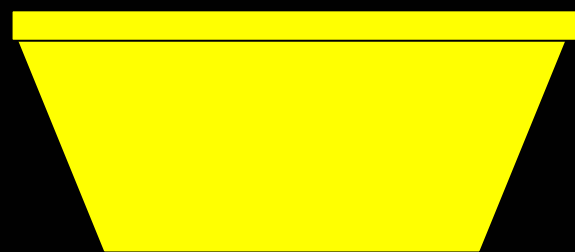
Buckets



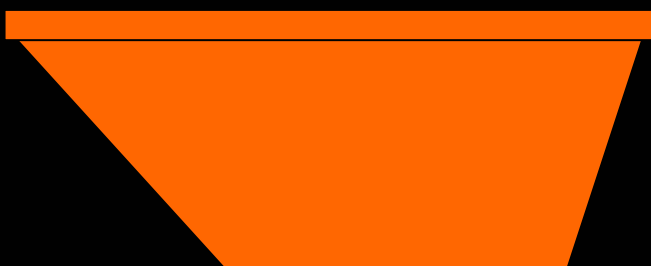
2 wheel bins



4 wheel bins



Skips with secure lids



Rear End Loaders with secure lids

**On-site Best Practice:  
Secure compound and containers**



# Shop ReFit Waste

Any shop refit site across the country © NGS

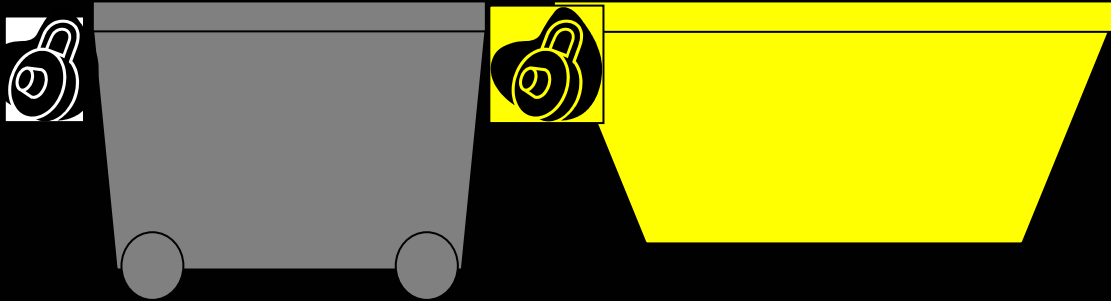
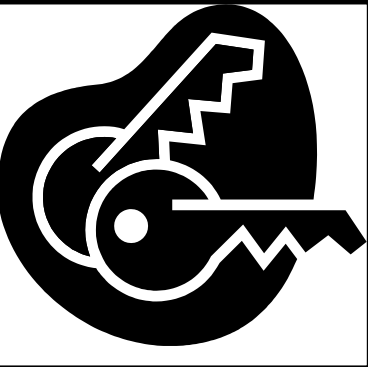
# Lockable lids on skips



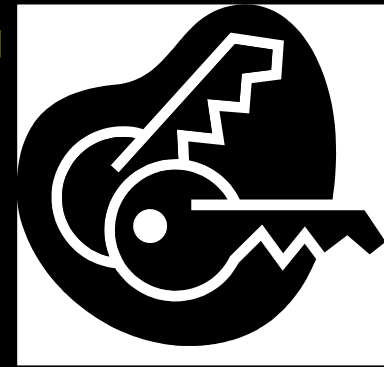
Building Site

Secure Transport

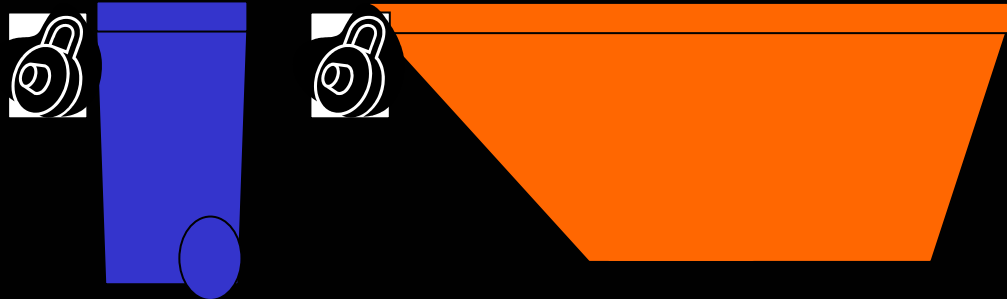
Transfer station



4 wheel bins & Skips with secure lids



Key Holder



2 wheel bins & Rear End Loaders with secure lids

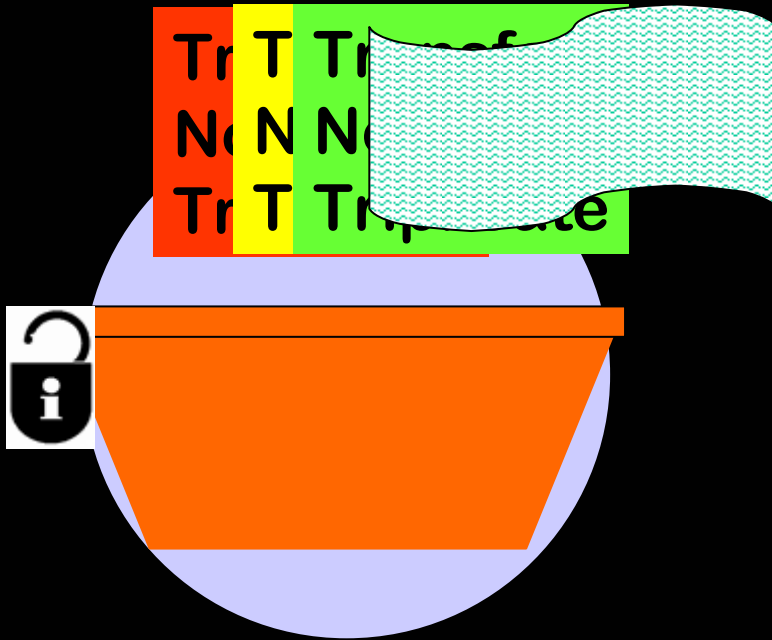
Key Holder

To EA

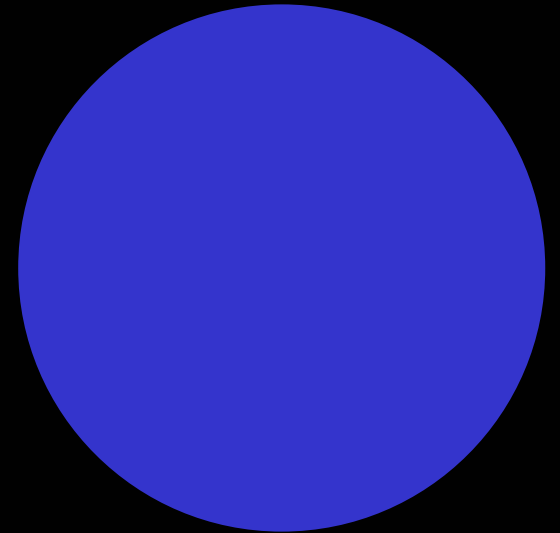
# Waste Transfer Notes

Compare and pay

Rubber Stamp



Building Site



Segregation Site





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# Anti-Social Behaviour Act 2003

DEFRA 2005/6

Clean Neighbourhood and Environment Act  
Anti-Social Behaviour Act

Environment Protection Act: Duty of Care, SWMP

# Local Residents

- **Breach of site boundary**
  - Safety issues
- **Flytipping**
  - Domestic waste into landscape
  - Domestic waste into construction skips
- **Fires in skips**
  - Toxics
- **Nuisance**
  - Vandalism
- **Theft from stores or finished buildings**
- **Delays and disruption to occupation**



# Site Boundary Security

Incomplete boundary, overlooking, easy target, invite and receive



# Site Boundary Security

metal not as robust as plywood



# Site Boundary Security

metal not as robust as plywood



**Site Boundary, Compound + Containers**  
3 lines of defence may not always be enough



# Site Skip + Domestic Waste

Close to site boundary: invitation to use



# Domestic Waste + Skip Fires

Close to boundary: invitation to local ASBO residents

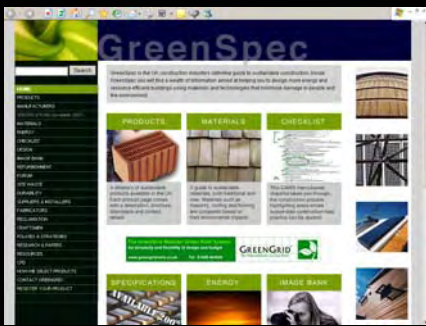




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# Incineration & Clean Air Act 1993

On site open fires  
Burning of waste



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# Incineration & Clean Air Act 1993

On site open fires  
Burning of waste

# Fire Smoke Toxins and Dioxins

- Low temperature fires generate pollutants, toxins, dioxins

# Site Fires

- NBS Specification still has optional clauses 1 permits site fires
- When will we ever learn?



[www.greenspec.co.uk](http://www.greenspec.co.uk)

# 2005 Clean Neighbourhoods & Environment Act

DEFRA 2005/6

Clean Neighbourhood and Environment Act

Anti-Social Behaviour Act 2003

Environment Protection Act: Duty of Care, SWMP

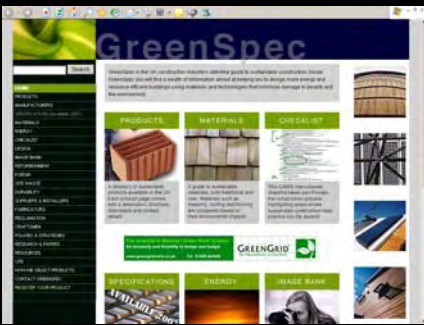
# Material Exchange

- Ebay & Freecycle
- Furniture Reuse Networks
- IT Reuse networks
- Building Materials Exchanges
- Material Exchanges
- Architectural Salvage
- Construction Reclaim
- NISP National Industry Symbiosis Programme
- Recycling WRAP

# UK Recycling

[www.ukrecycling.co.uk](http://www.ukrecycling.co.uk)





[www.greenspec.co.uk](http://www.greenspec.co.uk)

# Tenant Segregation

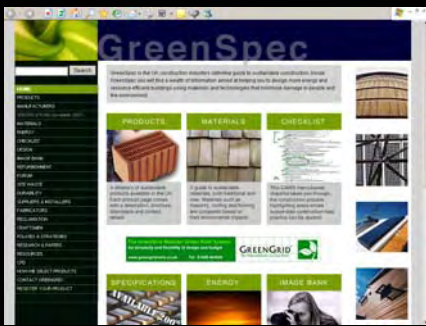
Domestic Waste Recycling

On estate



# Estate Waste Segregation: bins with underground chambers





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# Contractor Segregation On-site

## Construction Waste Segregation



**TIMBER**

**Waste: Timber**

But its all pallets which are not waste



METAL

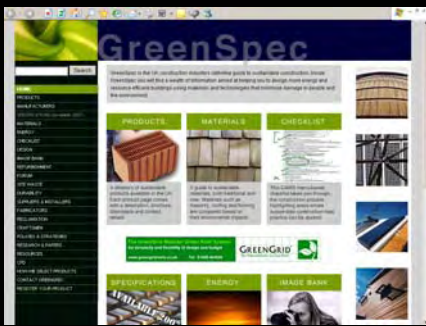
# Waste: Metal

Plus: pipes, plastics, cables,



# Waste: Plastics

Plus: Concrete blocks, Brick, WEEE: Discharge Luminaires



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# Contractor Segregation Off-site

## Construction Waste Segregation

# Small Quantities

- Little scope to reuse or recycle
- No recyclers are interested
- No manufacturers interested
- Many materials probably mixed
- Of little use to next project
- Segregate off site
- Send to transfer/bulking station

# Peterborough EcoCentre

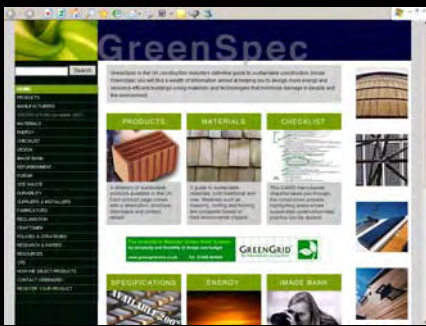
- Small builders waste service
- Out of hours operation
- Bring/send segregation transfer station
- Like a Domestic Recycling Centre
- Bring and segregate your own into many waste stream containers
- Or send and pay for segregation
- Way bridge for bulk











[www.greenspec.co.uk](http://www.greenspec.co.uk)

# Transfer Station Segregation

Construction Waste Recycling Centre  
for MSME Builders



