

Getting Waste Sorted (B) (Beacon



Today's presentation is from the sharp end – not the pointy headed!

- Waste and Builders
- Our Project
- Culture Change
- What industry can do
- What regulators can do
- Discussion

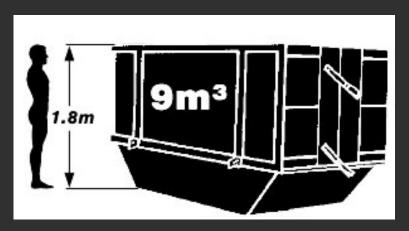




Waste is an issue...

- Construction and demolition waste represents up to...
- 50% of <u>all waste generated</u> in NZ (MfE)
- The average residential construction project generates
 - -3-5 tonnes of waste
 - 25-40 m³ of waste
 - -3 or 4 9m³ bins of waste





Financial Costs of Waste Disposal

- What is waste costing you now?
- How much does a skip cost you?
- · How much does disposal cost you?
- How much profit is thrown away?

Why bother?

- ✓ Increase your profits
 - ✓ Reduced disposal costs typical residential construction project spends \$300 - \$1000 on waste disposal
 - ✓ Reduced costs of purchase expensive resources and building material being wasted



Remember: Most construction waste is made up of **new** materials – that have been bought and paid for.

Why bother? (continued)

- Improve your business
 - Better onsite Health and Safety
 - Improve your reputation
 - Leadership considerate and professional builders
 - Stay ahead of regulations
 - Homestar



 Environmental - landfill space issues, pollution and needless waste of current available resources



Waste and Builders – The Challenge

- Culture of builders
 - Time and effort = money
- Speed of delivery
- Site constraints size, location etc
- Lack of sticks
 - Waste costs too low?
 - Lack of adoption of best practice (e.g. Homestar)
- Lack of carrots
 - No easy 'system' have to think!
 - Where are the Cash bonuses!

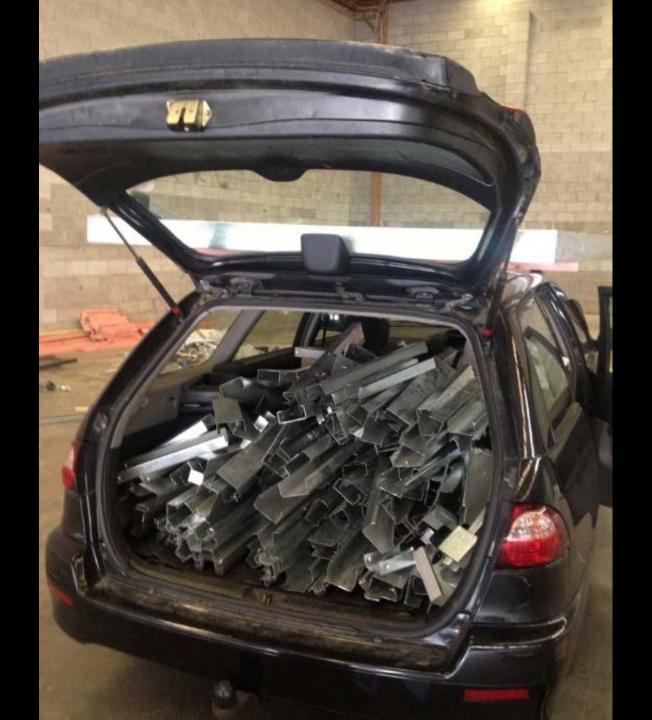
Our project

- Working with Builders
- They find it HARD well... they find it harder than business as usual
 - Deadlines and Dollars
- Training
 - Education, knowledge, Incentives, buy in
- Knowledge does NOT equal action
- Using a co-design process to find workable solutions
- It's about changing a culture and being more professional











OUR SITES REFLECT THE WAY WE WORK





Concentrating on The Big Three











What can Industry do? Suggestions for Builders

- Devise and put in place a simple waste management plan for every site
- Think of waste as a resources e.g. reuse off-cuts of timber
- Induct people on site (like H&S) and make subbies responsible for their own waste
- Refine your schedule of quantities stop overordering
- Get buy in at the design stage modular construction
- Teaching good waste management at apprenticeship level

What can Industry do? Suggestions for wider industry

Waste Management Companies

- Getting waste industry buy in
- Look into smaller sortable systems that are easy for builders (e.g. Plasterboard and flexible bins)

Merchants

 Merchants take more responsibility for recycling – and as a portal for information regarding waste practices



What can local and national government do? Some suggestions

- Make community re-use an option
 - Develop a network of materials to be reused and connect people
- Consider consent process should every house require a simple waste management plan?
- Better information about best practice
- Relax rules on storage of waste on berms and bin placement





Construction Waste - Case Study

- Average 3 bedroom = 3-5 tonnes of construction waste = new materials going to landfill
- Some builders have started reducing this focussing on diverting waste to recycling and reuse
- In case studies (Auckland, Christchurch) seems that with a bit of effort 80% of construction waste can be recycled = 1 tonne to landfill
- Exemplar case study
 - Hastings Best Home<200kg to landfill)





Hastings 'Best Home'

Less than 200kg waste to landfill...



http://www.besthome.org.nz/



Discussion?

