

Surface Dressing Design

Review of Surface Dressing Designs using the IAT Calculator

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Hand Written Design Sheets - Issues

- Slow to fill out
- Reading of graphs and charts subject to variation depending on engineer
- Difficult to alter should conditions or results change
- Control of record sheets difficult to co-ordinate at high season



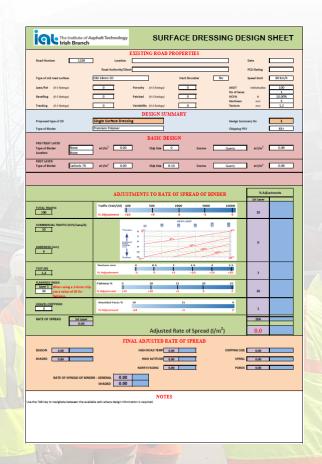
Hand Written Design Sheets - Proposal

- A solution that would be accurate and consistent
- Would work alongside the existing IAT design sheet in terms of format
- Easy to prepare, save and circulate



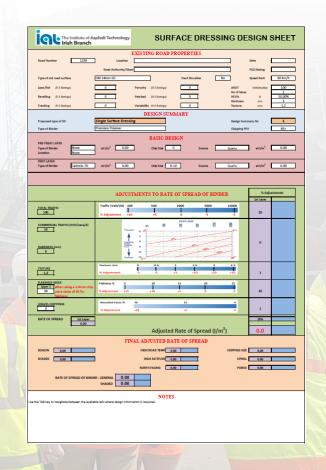
Hand Written Design Sheets - Solution

- A programme developed in excel
- Easily accessible for laptops and tablets for mobile working
- Almost identical to the IAT design sheet in terms of layout colour



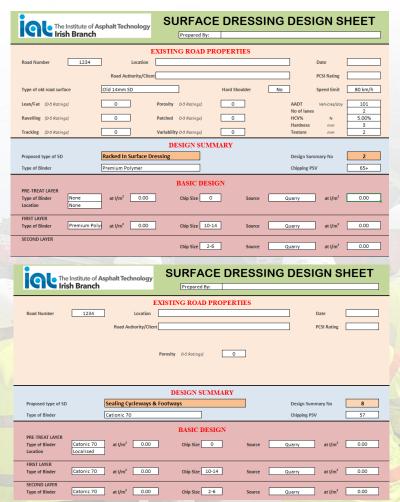
Hand Written Design Sheets - Solution

- Easy to save and share to colleagues and clients
- Automated calculations depending on values selected consistent
- Easy to alter should parameters change slightly – season



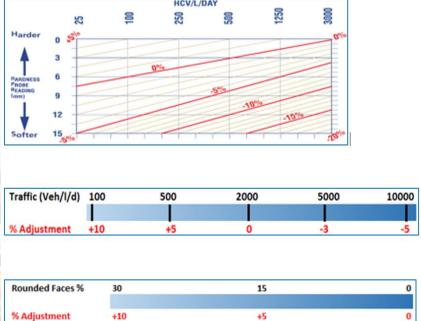
Excel Based Design Sheets

- White boxes prompt where design information needs to be entered
- Drop down menus where available to ensure consistency e.g. Chip size
- Fields omitted where information is not applicable to that design



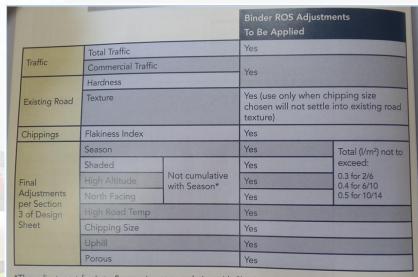
Excel Based Design Sheets

- Key information is only required to be entered once eliminate errors
- Calculations completed and result brought forward to **Adjustments Section**
- Graphs and Tables retained for cross checking



Excel Based Design Sheets

- Adjusted Rate Of Spread is brought forward
- Final Adjustments are entered based on site conditions
- Maximum values as per the IAT guidelines for particular chip size have been built into each design sheet



*The adjustment for Late Season is not cumulative with Shading, High Altitude , North Facing i.e. If 0.3 I/m² is required for Shading and 0.1 I/m² is already required for Season then an additional 0.2 I/m² is applied in the Shaded Areas.

Completing an Actual Design

- Site visit and a walkover of carried out
- Number of readings taken with a hardness probe
- Texture test carried out and the result recorded
- IAT Surface Dressing Design
 Calculator.xlsx



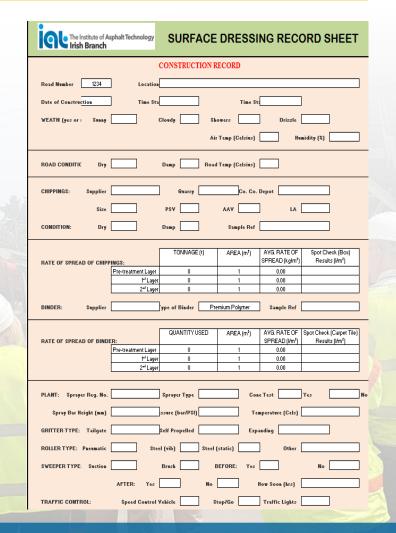
Save and Send the Design

- Save the design as a unique number e.g. Road Number of Client Reference
- Allows you to edit should results change
- Send file as a PDF to foreman, site engineer, head office or Client



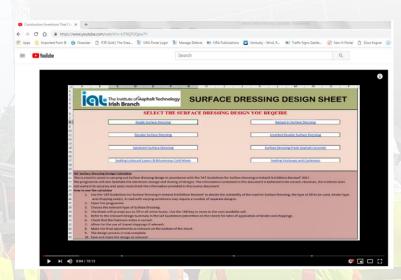
Complete the Record Sheet

- Save the record sheet as the same reference number as the design sheet.
- Enter the key information once
- As you complete your inspections update it
- Save and send to Client etc.
- IAT Surface Dressing Record
 Sheet Rev 1.xlsx



Questions

- Thanks for listening...Any Questions?
- Copy of a tutorial video on YouTube in the near future.
- Download the calculator at <u>https://www.instituteofasphalt.or</u> g/branch/surfacedressingguidelin es.php?branch=7



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