# Clays Specification Code Decoder

A web application for decoding print production specification codes used in the printing and publishing industry. This tool provides detailed breakdowns of multi-character codes that define product types, colour configurations, finishing options, material weights, and special processes.

#### **Features**

#### **Code Decoding**

- Real-time specification code validation and interpretation
- Support for 6-12 character codes
- Character-by-character breakdown with detailed explanations
- Error detection for invalid or unknown codes

#### Interactive Visualization

- Visual representation of each character in the code
- Click-to-highlight functionality for easy reference
- Position indicators showing character sequence
- Color-coded results (green for valid, red for errors)

### **Smart Processing**

- Multi-character code recognition (e.g., "BE", "PB", "S1")
- Auto-uppercase input conversion
- Enter key support for quick decoding
- One-click field clearing on focus

#### **Export & Share**

- Copy complete specifications to clipboard
- · Formatted output ready for documentation
- Visual feedback for successful operations

#### **Responsive Design**

- Mobile-friendly interface
- Bootstrap-based styling
- · Consistent with modern web standards
- Professional appearance suitable for business use

## Specification Code Structure

The application decodes codes with the following character positions:

Position Description Example	es
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Position	Description	Examples
1st	Product Type	C=Cover, W=Cover with Flaps, J=Jacket, T=Tip-In, F=Cover For Case
2nd	Colours (Outside)	0=No Colour, 1-9=Various colour combinations
3rd	Colours (Inside)	0=No Colour, 1-9=Various colour combinations
4th	Type of Finish	0-9, A-Z=Different laminations, varnishes, UV treatments
5th	Surface Texture	P=Plain, G=Grained
6th	Material Weight	1-7=Different GSM weights (130-265 gsm)
7th-9th	Special Processes	F=Fluorescent, BE=Block & Emboss, etc.

### **Usage Examples**

#### Basic 6-Character Codes

- C45LP1 Cover, 4 process + 1 spot outside, 4 process inside, Gloss Spot UV, Plain, 190gsm
- W20MP2 Cover with Flaps, 2 spot outside, no colour inside, Matt Spot UV, Plain, 220gsm
- J11GP4 Jacket, 1 spot both sides, Grained, Plain, 150gsm

#### **Extended Codes with Special Processes**

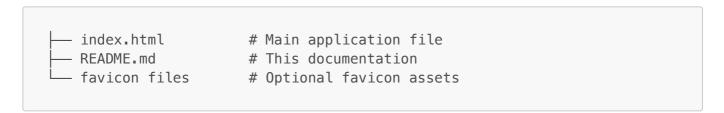
- C45LP1F Basic code + Fluorescent ink
- W23MP2BE Basic code + Block & Emboss (same pass)
- T11GP4S1 Basic code + Other Spot UV

#### **Technical Details**

#### **Technology Stack**

- Frontend: HTML5, CSS3, JavaScript (ES6+)
- **Styling**: Bootstrap 5.3.2, Bootstrap Icons
- Browser Support: Modern browsers with ES6 support
- Dependencies: None (all libraries loaded via CDN)

#### File Structure



#### **Browser Compatibility**

- Chrome 60+
- Firefox 55+
- Safari 12+

• Edge 79+

## Installation & Setup

#### 1. Download the Files

```
# Clone or download the repository
git clone [repository-url]
cd clays-specification-decoder
```

### 2. Deploy to Web Server

- Upload index.html to your web server
- o Optionally add favicon files for branding
- o Access via web browser

#### 3. Local Development

```
# Simple local server using Python
python -m http.server 8000

# Or using Node.js
npx http-server
```

#### 4. Access the Application

- Open http://localhost:8000 in your browser
- o Or simply open index.html directly in a modern browser

## Code Specifications Reference

**Product Types (1st Character)** 

Code	Description
С	Cover
W	Cover with Flaps
J	Jacket
Т	Tip-In
F	Cover For Case

Colour Configurations (2nd & 3rd Characters)

Code	Description	
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Code	Description
0	No Colour Print
1	1 Spot Colour
2	2 Spot Colours
3	3 Spot Colours
4	4 Process Colours
5	4 Process Colours + 1 Spot Colour
6	4 Process Colours + 2 Spot Colours
7	4 Spot Colours
8	4 Process Colours + 3 Spot Colours
9	4 Process Colours + 4 Spot Colours

### Material Weights (6th Character)

Code	GSM
1	190 gsm
2	220 gsm
3	265 gsm
4	150 gsm
5	135 gsm
6	130 gsm
7	230 gsm

### Special Processes (7th-9th Characters)

Code	Description
F	Fluorescent
S	Spot Colour
М	Non-Conventional Metallic
K	Conventional Metallic (used with M)
В	Blocked (after print, before laminate)
E	Embossed
D	Debossed

Code	Description
С	Die-Cutting
Р	Print Over Foil
L	Block Over Laminate
U	Uncoated Printing
BE	Block & Emboss (same pass)
DE	Deboss & Emboss (same pass)
BD	Block & Deboss (same pass)
РВ	Print Black Over Foil
S1	Other Spot UV
S2	Pile Spot UV
S3	Glitter Spot UV
V1	Glow Varnish
H1	Holographic Lam

## Contributing

To update the specification codes:

- 1. Modify the specData object in the JavaScript section
- 2. Add new codes following the existing pattern
- 3. Test with various code combinations
- 4. Update this documentation as needed

## Support

For technical issues or specification questions:

- Check the browser console for error messages
- Verify code format (6+ characters minimum)
- Ensure all characters are valid according to the specification

### License

This project is designed for internal business use in the printing and publishing industry.