

# ZENITH COMPACT TECHNICAL DATASHEET



## 1. Material description and composition

Zenith Compact Colour is decorative high-pressure laminate (HPL) with coloured core, that can be used in a wide variety of kitchen design layouts vertical and horizontal applications.

## 2. Types

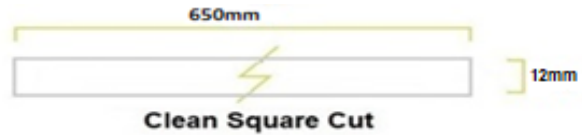
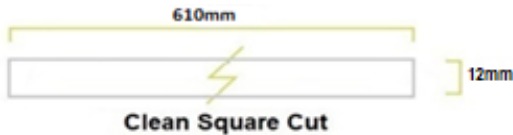
**Finishes:** Various HPL decors – Please refer to Product brochure

**Textures:** Various textures – Please refer to Product brochure

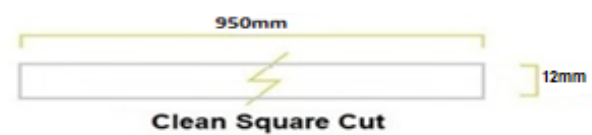
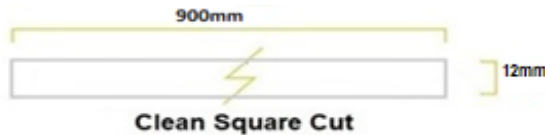
**Types:** BCS: Through-colour standard Compact, CGS: Standard Grade Compact

**Dimensions:**

### Worktops



### Breakfast bars



### Upstands



## 3. Technical data

DIMENSIONAL PROPERTIES		STRUCTURE	
<b>Dimensions</b>	3050 mm x 610 mm Worktops 3050 mm x 650 mm Worktops 3050 mm x 900 mm Breakfast Bar 3050 mm x 950 mm Breakfast Bar 3050 mm x 100 mm Upstand 950 mm x 950 mm Internal Curved Module	<b>1</b>	<b>Core:</b> Decorative face front and rear face
<b>Panel Thickness</b>	12 mm nominal for worktops/ breakfast bar and upstand		
<b>Tolerances</b>	<b>Length:</b> + 10 mm / - 0 mm <b>Width:</b> + 10 mm / - 0 mm <b>Edge straightness:</b> ≤ 1.5 mm/m <b>Squareness:</b> ≤ 1.5 mm/m <b>Flatness:</b> ≤ 5mm/m or ≤ 1mm/600mm <b>Thickness Tolerance:</b> BCS ± 0.8mm CGS ± 0.6mm		

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MECHANICAL PROPERTIES				
	STANDARDS	TESTING METHOD	UNIT	MINIMUM REQUIREMENT
Density	EN ISO 1183-1		Kg/m <sup>3</sup>	CGS 1350 / BCS 1400
Modulus of elasticity	EN ISO 178		MPa	≥ 9000
Bending strength	EN ISO 178		MPa	≥ 80
Resistance to boiling water (Mass increase)	EN 438-2-12		%	BCS ≤ 3 CGS ≤ 2
Resistance to boiling water (Thickness increase)	EN 438-2-12		%	BCS ≤ 4 CGS ≤ 2
Resistance to boiling water (Aspect)	EN 438-2-12		Class	BRIGHT = 3 Others = 4
Impact resistance (Large diameter ball) (Drop height for ≤ 10mm diameter imprint)	EN 438-2-21		mm	≥ 1800
Resistance to cracking on surface	EN 438-2-24		Class	4
Resistance to cracking on core	EN 438-2-24		Class	CGS: 4 BCS: 3
Dimensional stability	EN 438-2-17		SL % ST %	CGS: SL ≤ 0,30% - ST ≤ 0,60% BCS: SL ≤ 0,50% - ST ≤ 0,80%
SURFACE PROPERTIES				
Surface defects – Spots	EN 438-2-4		mm/m <sup>2</sup>	≤ 1
Surface defects – Linear	EN 438-2-4		mm/m <sup>2</sup>	≤ 10
Resistance to abrasion	EN 438-2-10		No. of revolutions	≥ 150
Resistance to water vapour	EN 438-2-14		Class	BRIGHT ≥ 3 TCH/TP ≥ 4 Others ≥ 4
Resistance to dry heat	EN 438-2-16		Class	BRIGHT ≥ 3 TCH/TP ≥ 4 Others ≥ 4
Resistance to scratching	EN 438-2-25		Grade	BRIGHT/smooth surface = 2 TCH/TP = 4 Others structured = 3
Resistance to staining – Group One	EN 438-2-26		Class	5
Resistance to staining – Group Two	EN 438-2-26		Class	5 (Except TCH/TP for tea and coffee = 3*)
Resistance to staining – Group Three	EN 438-2-26		Class	4
Colour fastness under artificial light Surface	EN 438-2-27		Greyscale	4-5 (décor) 3 (core)

(a) Class: 1 = Surface damage. 2 = Severe appearance alteration. 3 = Moderate change. 4 = Slight change visible from certain angles. 5 = No change.

(b) Grade: 2 = Continuous scratches at 2N. 3 = Continuous scratches at 4N.

\* Ahead 2 hours of exposition, coffee and they may leave spots on light surfaces. To avoid all aesthetic damages, we recommend cleaning all stains immediately. In case of remaining stains, it's possible to clean them with a gummy sponge.

FIRE PERFORMANCE			
	STANDARDS TESTING METHOD	UNIT	MINIMUM REQUIREMENT
Fire rating	EN 13501-1	Euroclass	BCS: TCH = C-s2,d2 Others = B-s2,d0  CGS: TCH = D-s2,d2 Others = C-s1,d0
HEALTH AND ENVIRONMENTAL CHARACTERISTICS			
Food safe	EN 13130-1		Yes
Formaldehyde emission	EN 717-2	Classification	E1
Volatile organic compounds (VOC) emission	ISO 16000-9	Classification	A
Antibacterial properties	JIS Z 2801	% Reduction	>99.9

## 4. Practical advice on the use of Zenith Compact Colour worktops/breakfast bars and upstands

### 4.1 General

**Zenith Compact Colour** worktops/breakfast bars/upstands are designed with decorative and functional properties for interior applications in kitchens within residential areas.

**Zenith Compact Colour** worktops/breakfast bars/upstands must only be used indoors in normal conditions (18-25°C / 50-65% relative humidity).

The installation of **Zenith Compact Colour** worktops/breakfast bars/upstands is covered by specific installation instructions and guidelines. Installation instructions are packed with every product and are available from the brands website. [www.wilsonart.co.uk](http://www.wilsonart.co.uk) or [www.bushboard.co.uk](http://www.bushboard.co.uk)

The **Zenith Compact Colour** worktops/breakfast bars/upstands must always be installed using **Complete** adhesives and coloured sealants. The bonding side of upstands, designed for gluing to a wall substrate should be clean, dry, and free of dust, oil, and grease.

The bonding to preliminary wall treatments is dependent on the type of treatment; always fully observe the instructions for use issued by the treatment manufacturer before applying **Zenith Compact Colour** upstands.

### 4.2 Storage and transportation

**Zenith Compact Colour** worktops/breakfast bars/upstands must be stored on a horizontal, flat, level and sufficiently large base in a closed warehouse under normal indoor climatic conditions (10-30°C and 40-65% relative humidity). In medium term storage the worktops/breakfast bars/upstands should always be covered and weighted, for example with a 12mm particle board panel. In addition, the worktops/breakfast bars/upstands should be protected from moisture and mechanical damage.

**Zenith Compact Colour** worktops/breakfast bars/upstands should be transported on a horizontal, flat, level and sufficiently large base board with protection against slippage and side damage.

In terms of transportation conditions, **Zenith Compact Colour** worktops/breakfast bars/upstands are not deemed to be dangerous goods, so labelling is not necessary.

### 4.3 Conditioning

Before installing the **Zenith Compact Colour** worktops/breakfast bars/upstands, they should be stored for 3 days at normal indoor temperature. (18–25°C; relative humidity 50-65%).

These conditions should then be maintained in the room post installation and until the room is commissioned.

## 4.4 Machining

**Zenith Compact Colour** worktops/breakfast bars/upstands can be processed with woodworking tools. The selection of the required carbide tipped tools, particularly for saws and routers, should be based on manufacturers recommendations. This applies especially if larger batches are to be manufactured or if higher requirements exist for the cutting quality. Appropriate pretesting is also recommended in these cases. The machining leads to increased tool wear due to the greater product thickness. As a rule, local overheating from improper tool guiding must be avoided for all machining processes. Furthermore, a good exhaust system must be provided in the workplace to prevent dust pollution.

## 4.5 Wall conditioning

Walls must be dry, clean, stable, and flat. The moisture of the wall should be less than <5% humidity.

**Zenith Compact Colour** upstands can be bonded to various types of plaster, gypsum and cement, plasterboard and gypsum, fibreboard, various types of wood-based panels such as particleboard, MDF and OSB.

On ceramic surfaces: clean thoroughly and key the surface before applying the upstands. More detailed information for use of **Zenith Compact Colour** worktops/breakfast bars/upstands can be found in the installation instructions available packed with every product or from the brands website. [www.wilsonart.co.uk](http://www.wilsonart.co.uk) or [www.bushboard.co.uk](http://www.bushboard.co.uk)

## 4.6 Maintenance, Care and Cleaning

**Zenith Compact Colour** worktops/breakfast bars/upstands are robust and do not require special surface protection (lacquers or paints). A longer exposure time of hot liquids (tea, coffee, etc.), can lead to slight stains on light decors. To avoid all aesthetic damages, we recommend cleaning all stains immediately. Use only clean, soft cloths, soft sponges, or soft brushes to clean the panels with mild soap solution. Afterwards clean the surface with water and dry it. Stubborn stains (e.g., varnish) can be removed with organic solvents (e.g., ethanol, acetone). Do not apply waxes or polishing agents. Do not use abrasive cleaners, strongly acid cleaners, or strong bleaches. Limescale can be removed with a warm solution of 10% acetic or citric acid. Followed by clean warm water. Never use high pressure cleaners and steam cleaners.

## 4.7 Environmental and Health Aspects in Use

Observe normal health and safety rules when processing the **Zenith Compact Colour** worktops/breakfast bars/upstands in terms of weight, dust, and sharp edges.

Ensure that a dust extractor is used for all cutting operations and wear appropriate PPE.

**Zenith Compact Colour** worktops/breakfast bars/upstands are a cured and therefore inert duroplast. The release of formaldehyde is far below the legally permissible level.

**Zenith Compact Colour** worktops/breakfast bars/upstands can come into direct contact with all foods and can safely be used as intended in food processing.

## 4.8 Waste disposal

**Zenith Compact Colour** worktops/breakfast bars/upstands waste is classified in accordance with the regulation of the European Waste Catalogue (EWC) to the six-digit waste code EWC 200 138 (or 200301) and the waste definition "municipal waste" and may be disposed of as domestic waste or commercial waste.

All the information contained in this technical data sheet is based on the latest technological know-how but does not constitute a guarantee. Indeed, we assume no guarantee of suitability for specific areas or purposes of application.