



# FlexFix<sup>®</sup> Flat

Flatter than ever before. Extremely lightweight.  
The utmost in comfort.



**YKK**  
*Little Parts. Big Difference.®*



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FlexFix® Flat is a revolutionary new press stud system from YKK STOCKO FASTENERS. Made from stainless steel and with FlexFix® technology, FlexFix® Flat has been designed for durability and to withstand industrial washing. As such, the press stud has taken on a new dimension. It is now able to offer the utmost in comfort, the best functionality, an attractive, stylish design – and it is flatter than ever!

## VISIBLY FLATTER

The graphic shows the height difference between FlexFix® Flat and other press stud systems.

FlexFix® Flat

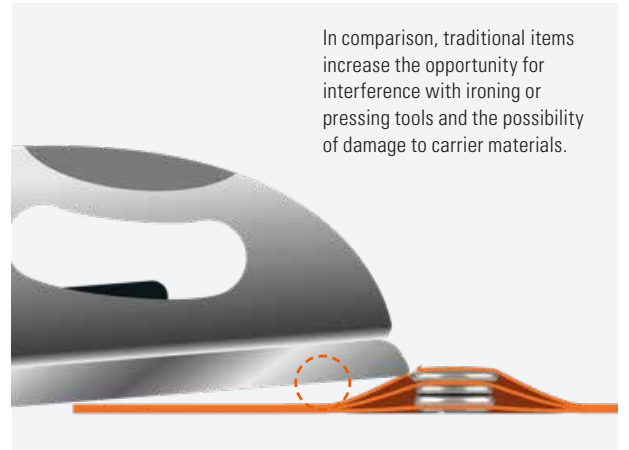
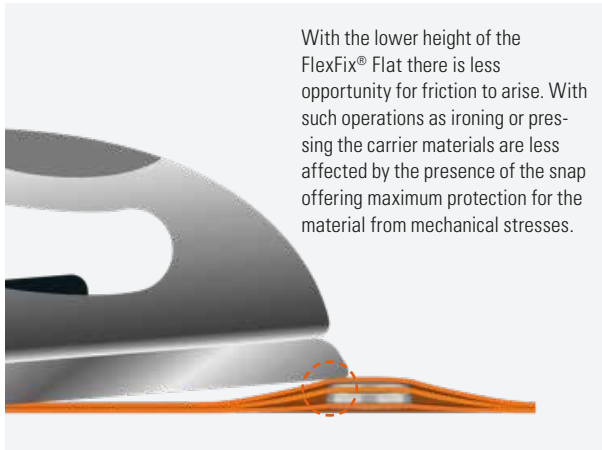


# FlexFix® Flat

## IDEAL FOR INDUSTRIAL WASHING

Workwear is often subjected to industrial washing. The drying process exposes the laundry to water extraction press, which exerts a high mechanical pressure on the press stud systems, which often leads to defects in the system itself, as well as in wear and damage to the fabrics.

Now there is FlexFix® Flat – a press stud system that can withstand the pressure applied to protruding components. The likelihood of the fabric being damaged is significantly reduced thanks to the extremely flat design.



# IMPRESSIVE TECHNOLOGY – HOW IS FLAT SNAP SO FLAT TECHNOLOGY AND FUNCTIONALITY:

The FlexFix® Flat system is based on FlexFix® technology. A flexible, high-tech plastic has been integrated into the system. It boasts springy elastic properties and guarantees extremely long and consistent opening values. The functioning of the FlexFix® Flat press stud system differs from all other systems in two main ways:

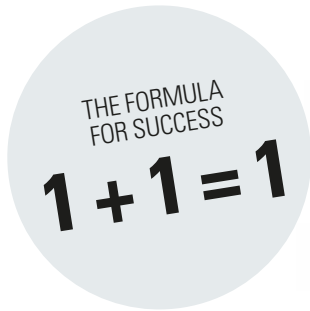
**1. The socket and stud combine to form one component:**  
Unlike conventional press stud systems, in which the stud part connects with the socket and the height of the two components is added together; in the FlexFix® Flat system, the socket and stud combine to form one component

**This almost halves the total height!**

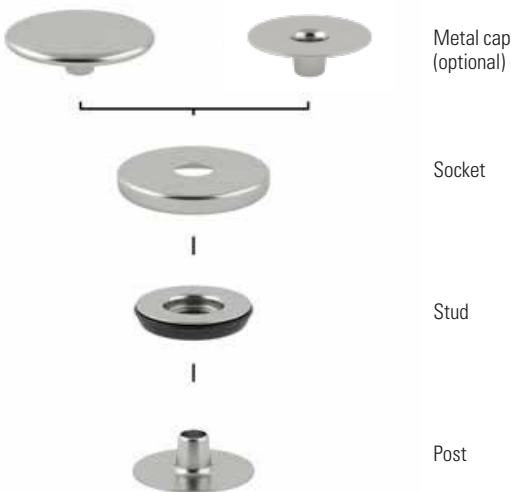
## 2. FlexFix® technology on the stud

The FlexFix® technology with high-tech plastic is not located on the socket; instead it is found on the system's stud. The combination of the metal and plastic components is highly stable and can withstand extremely high mechanical loads. As the stud (spring element) is pressed into the socket, the plastic coating glides softly into the socket and clicks into place. The fastener is just as convenient to open.

FlexFix® Flat has a patent application pending.



## SYSTEM STRUCTURE



## SIZES AND SHAPES

We currently offer the FlexFix® Flat stud and socket in size 1. The diameter of the closed system is 13 mm. The socket and stud are shown in their actual size below.

FlexFix® Flat Socket  
ø 13 mm



FlexFix® Flat Stud  
ø 11 mm





## ALL THE BENEFITS IN ONE SYSTEM

The extremely flat design of the FlexFix® Flat is revolutionary. And the new press stud system has further benefits too: mainly in terms of wearing comfort, durability and design FLAT SNAP ticks every box.

### COMFORT AND FUNCTIONALITY

The increased comfort is owed partly to the very low weight and partly to the gentle opening and closing mechanism of the FlexFix® Flat system. The flat design reduces the distance between the two fabric surfaces when closing the fastener. As a result, the upper and lower extension close perfectly, thus reducing gaps and draughts.

### DURABILITY

The FlexFix® Flat system is based on FlexFix® technology, which guarantees a significantly high mechanical strength. Stability, durability and consistent opening values set this technology apart. The functional parts can withstand up to 50,000 opening and closing cycles without suffering any noteworthy wear.

### DESIGN

At the same time, the FlexFix® Flat system offers various design options to cater to individual requirements. The coloured plastic stud components can be used to create subtle splashes of colour. Other design options, such as galvanising and embossing, means that every FlexFix® Flat system can be transformed into a unique design highlight.

## BENEFITS AT A GLANCE

- Extremely flat design
- Low net weight
- Low friction
- Consistent opening values
- High pressure resistance
- Non-corrosive thanks to stainless steel
- No cold welding
- Long-term resistance
- Gentle opening and closing mechanism
- Very comfortable to wear
- Various design options

## TYPICAL APPLICATIONS

The following applications when using fabrics/materials with thicknesses of between 150 g and 300 g/m<sup>2</sup> (e.g. protective polyester/ cotton fabric) are suitable for FlexFix® Flat:

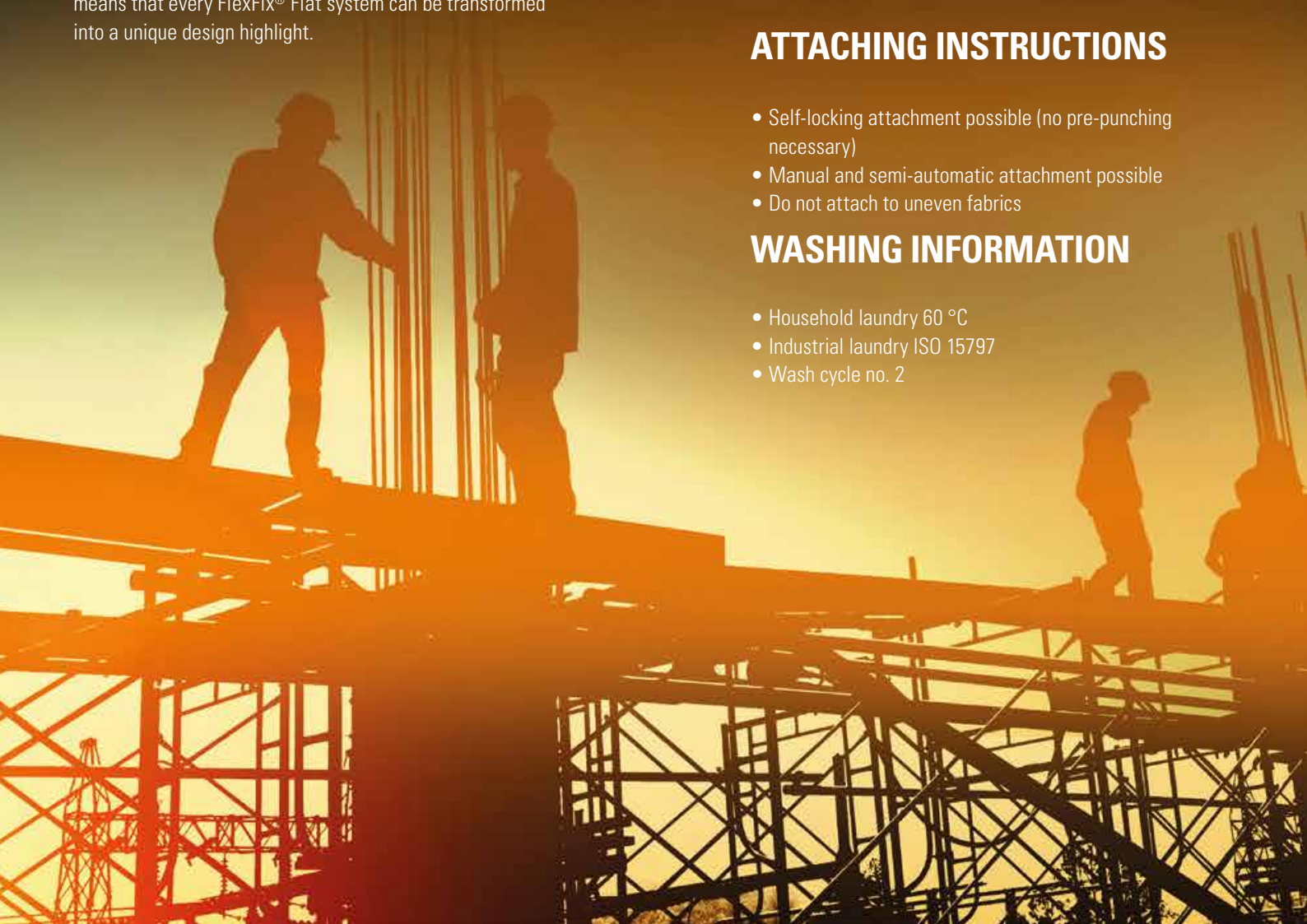
- Industrial laundry and hired garments
- Workwear (overalls, jackets and trousers)
- Multifunctional clothing
- Lightweight sports and leisurewear
- Leather goods
- Technical applications

## ATTACHING INSTRUCTIONS

- Self-locking attachment possible (no pre-punching necessary)
- Manual and semi-automatic attachment possible
- Do not attach to uneven fabrics

## WASHING INFORMATION

- Household laundry 60 °C
- Industrial laundry ISO 15797
- Wash cycle no. 2



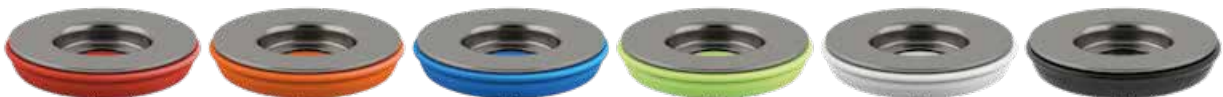
# FlexFix® Flat – FOR A SPLASH OF COLOUR!

Thanks to its coloured plastic coating, the FLAT model provides a variety of ways to create a special design accent. Whether in a trend colour or in line with your brand identity or CI specifications, the multiple combinations formed from the coloured plastic and the galvanised surfaces can be used to create fascinating effects. We are happy to sample your desired colour for you.

## TP STAINLESS STEEL BRIGHT



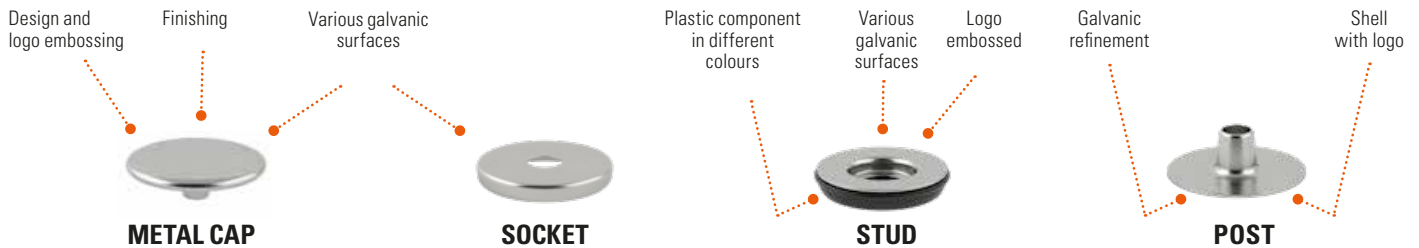
## SSCI3 STAINLESS STEEL BLACKENED



Further customisation options available on request

## DESIGN OPTIONS

Make the most of the great many design options and give FlexFix® Flat your individual look. The graphic below provides a brief overview of what is available. You can find more information about the various caps and customisation options in our separate brochure on caps and customisation. Alternatively, contact our sales team directly.



FlexFix® Flat				
	Item	D [mm]	Material	Info
<b>CAPS</b>				
<b>Metal caps</b>				
	<b>DK 110/13S</b>	13,0	Stainless steel	0175215 NSD(DK 110/13S) ATTACHING DIE (1984109A0)
	<b>DPFN 1S</b>	10,0	Stainless steel	0175216 NSD(DPFN 1S) ATTACHING DIE (1984110A0)
<b>SOCKET</b>				
	<b>DPFO 1</b>	13,0	Stainless steel	0175214 NSU(DPFO 1) ATTACHING DIE (1984108A0)
<b>STUD</b>				
	<b>DPFK 1S</b>	10,5	Stainless steel, plastic	0175228 NSU(DPFK 1S) ATTACHING DIE (1984111A0)
<b>POST</b>				
	<b>DPFN 1S</b>	10,0	Stainless steel	0175216 NSD(DPFN 1S) ATTACHING DIE (1984110A0)

## TESTIMONIALS

FlexFix® Flat is celebrating its première at the A+A in November 2019. You can see the results from some initial applications here too.

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Our garments must be comfortable and safe. FlexFix® Flat is used in our innovative ,URAN'-Collection. Even though the snap button is hardly to feel it has perfect grip.

**Irina Makarova**  
Product Manager  
Vostok Service

VOSTOK SERVICE

“

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The FlexFix® Flat impresses on our new WILHELM stretch denim trousers thanks to its pleasingly flat construction. We have been waiting for a press stud like this for a long time: it enhances the comfort of the wearer, especially in the case of thinner and stretchy fabrics. Unlike conventional press stud systems, the material is also well protected during the washing and ironing processes.

**Peter Hoffmann**  
Managing Director  
FHB

FHB

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We especially love the minimalist design: the coloured plastic ring on the stud part creates a splash of colour and perfectly reflects our corporate design colours of red and blue. Our hospital clothing stands for a long life span and we know that we can rely on FlexFix® Flat, even after more than 1,000 washes.

**Frank Dondajewski**  
Product Manager  
Bierbaum und Proenen



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Previously press fasteners were considered uncomfortable for the fastening of surgical clothing. In our new clean air suit, made of microfilament polyester, we now rely on the super-slim FlexFix® Flat. The opening and closing of this press fastener is pleasantly smooth, very soft and still reliable. The clean air suits of Alsico High Tech meet the European Medical Standard EN13795-2. We use high technical polyester fabrics with low linting and a silky touch. The elaborated design of our clean air suits gives the wearer a perfect fit and ensures the cleanliness in and around the operating theatre.

**Anneleen Desmet**  
Project Manager Contamination Control Solutions,  
Alsico High Tech



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