

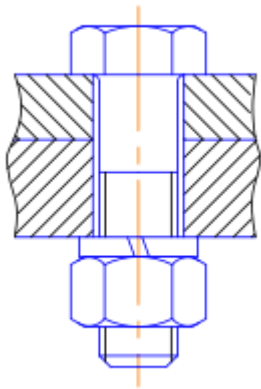


Pressure Metrics LLC.

Bolted joints are one of the most common elements in construction and machine design. They consist of cap screws or studs that capture and join other parts, and are secured with the mating of screw threads.

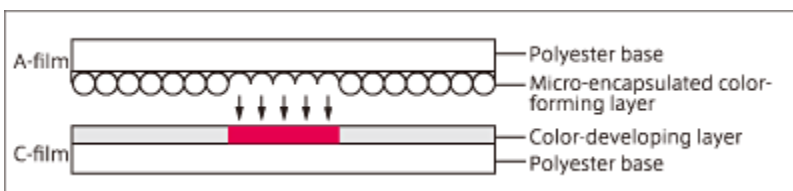
There are two main types of bolted joint designs. In one method the bolt is tightened to a calculated clamp load, usually by applying a measured torque load. The joint will be designed such that the clamp load is never overcome by the forces acting on the joint (and therefore the joined parts see no relative motion).

The other type of bolted joint does not have a designed clamp load but relies on the shear strength of the bolt shaft. This may include clevis linkages, joints that can move, and joints that rely on locking mechanism (like lock washers, thread adhesives, and lock nuts).

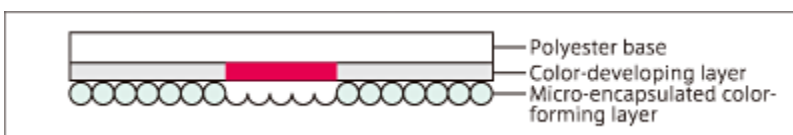


Simply place the Fujifilm Prescale material between any two surfaces which come into contact. Varying colors of red patches will instantly appear on the film, revealing the pressure distribution between the surfaces. Furthermore, the intensity of the red colors of the film is related to the amount of pressure applied to it.

Two-sheet Prescale Film: Prescale Film is composed of an A-Film, which is coated with a micro-encapsulated color-forming material, and a C-Film, which is coated with a color-developing material. The A-Film and C-Film must be positioned with the coated sides facing each other.



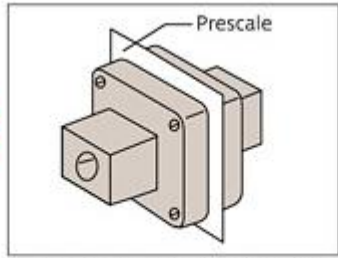
Mono-sheet Prescale Film: The color-developing material is coated on a polyester base, with the micro-encapsulated color-forming material layered on top.



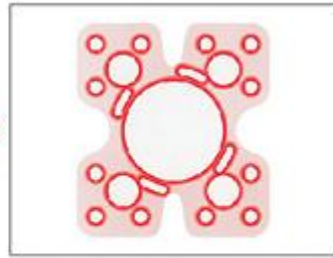
Prescale film is easy to use:



① Cut Prescale to desired dimensions



② Insert Prescale in desired location and apply pressure



③ Remove Pressure and Prescale and you can now See and check the pressure and it's distribution

Ranges:

<u>EXTREME LOW (4LW)</u>	<u>7.2 ~ 28 PSI (0.5 ~ 2 kg/cm²)</u>	<u>10' x 10.6" (3m x 270mm)</u>
<u>ULTRA SUPER LOW (LLLW)</u>	<u>28 ~ 85 PSI (2 ~ 6 kg/cm²)</u>	<u>16' x 10.6" (5m x 270mm)</u>
<u>SUPER LOW (LLW)</u>	<u>71 ~ 355 PSI (5~25 kg/cm²)</u>	<u>19' x 10.6" (6m x 270mm)</u>
<u>LOW (LW)</u>	<u>355 ~ 1,420 PSI (25~100 kg/cm²)</u>	<u>39' x 10.6" (12m x 270mm)</u>
<u>MEDIUM (MS)</u>	<u>1,420 ~ 7,110 PSI (100~500 kg/cm²)</u>	<u>39' x 10.6" (12m x 270mm)</u>
<u>HIGH (HS)</u>	<u>7,110 ~ 18,500 PSI (500~1,300 kg/cm²)</u>	<u>39' x 10.6" (12m x 270mm)</u>
<u>SUPER HIGH (HHS)</u>	<u>18,500 ~ 43,200 PSI (1,300~3,000 kg/cm²)</u>	<u>39' x 10.6" (12m x 270mm)</u>

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