

Impact Strength and Testing

for Pipes and Fittings

The impact strength of plumbing pipes and fittings is important, and **FlowGuard® CPVC** has a superior impact strength than most alternative materials.

► What Is Impact Strength?

The ability of a material to withstand a suddenly applied load, either from a force upon the material or the material itself being dropped.



► Why Is Impact Strength Important for Plumbing Pipes and Fittings?



For plumbers and developers



Better for cutting, especially on the job site.



Less likely to be damaged during transport or by falling items on the jobsite.



More sustainable because less material is damaged and scrapped.



For end users



Superior product performance



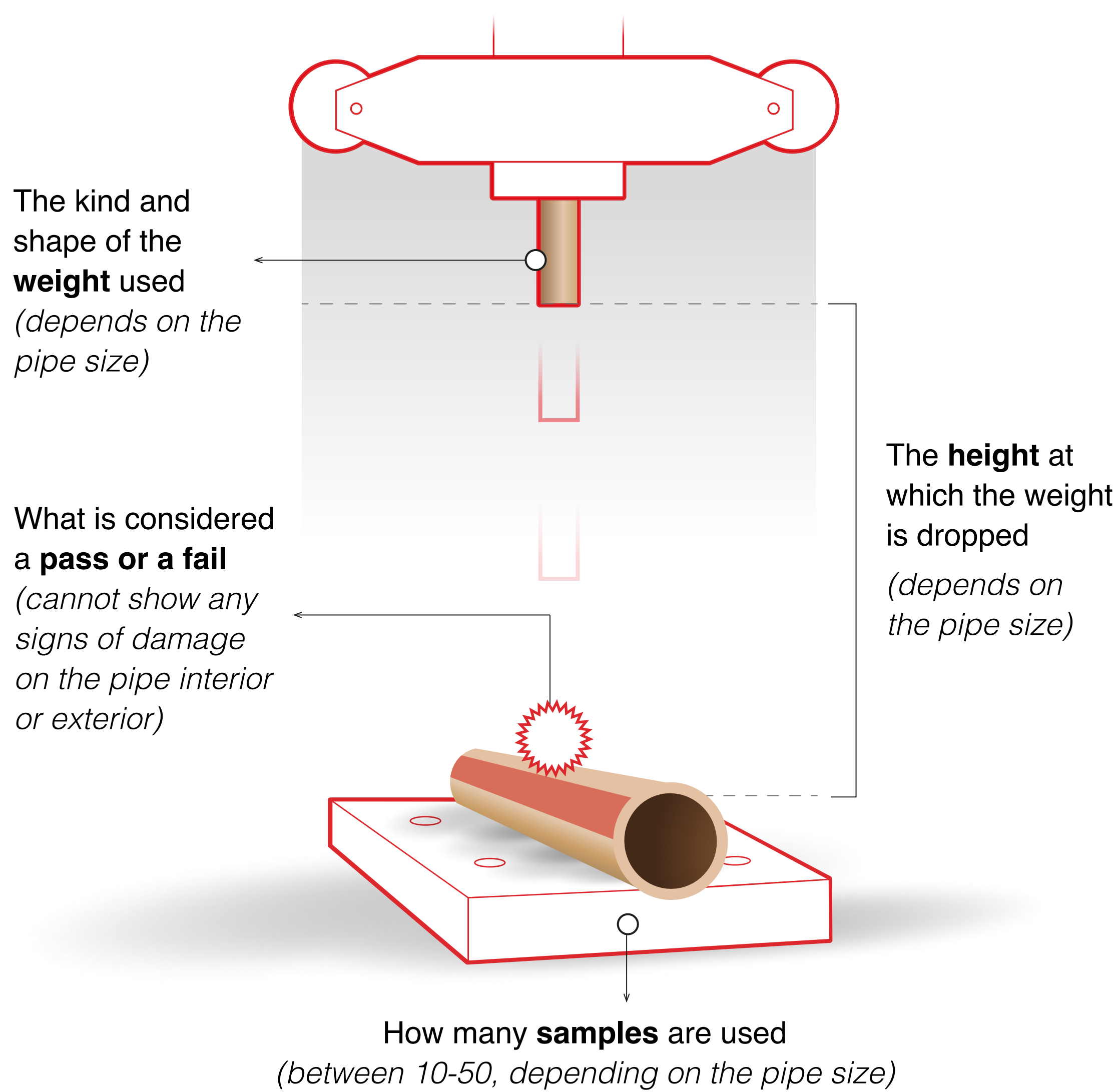
Longer service life



Better safety and reliability

► How Is Impact Strength Tested?

The **ASTM D2444 Standard Practice for Determination of the Impact Resistance of Thermoplastic Pipe and Fittings**, which uses a falling weight, can be used to assess impact strength. Details of the test include:



► What Is the Impact Strength of FlowGuard CPVC?

Impact strength is 33% better than all CPVC pipes sold in the market.

Compared to Fiber Reinforced PPR

2x

More than twice the impact strength of fiber reinforced polypropylene (PPR).

Drop Impact Testing (22°C)

