

# PAS 23816 project overview

A PAS is a sponsored fast-track standard that is developed through a consensus-building process facilitated by BSI Standards Limited. A PAS should not be regarded as a BS, EN or ISO standard.

<b>Identifier</b>	PAS 23816
<b>Draft titles</b>	PAS 23816 for flywheel for use in land-based mobile applications in the public domain (2 parts)
<b>PAS Sponsor</b>	XXXXXX
<b>BSI Project Manager</b>	<a href="mailto:Bhavisha.berry@bsigroup.com">Bhavisha.berry@bsigroup.com</a>
<b>Key dates</b>	XXXX

## Background

BSI was originally approached to develop a standard for high speed composite flywheels for energy storage use in mobile applications.

However, the development of PAS 23816 at this time, in 2013, was put on hold following completion of the original public consultation (with the comments being reviewed or incorporated into the draft document) due to some fundamental issues which needed to be resolved with the technicalities of the draft. As a result, the lead Technical Author redrafted the PAS into two parts.

Given the scope of the redraft and the time since the original public consultation it has been necessary to relaunch the project with a revised, more current Steering Group to review the resultant draft with another subsequent public review followed by a second Steering Group review before being published as a BSI PAS.

## Aim

The introduction of energy recovery systems into vehicles generates the need for an efficient, low mass, high cycling, and high power energy storage system. To this end high-speed, fibre-reinforced composite flywheel technology has been developed to fulfil this requirement and hence significantly reduce both the CO2 output and the fuel consumption of vehicles that utilize this technology.

## Draft scope

**Part 1: Composite reinforced flywheel – Code of practice**

This part of PAS 23816 gives recommendations for a composite reinforced flywheel for use in land-based mobile applications (e.g. automobiles, buses, trains and trams) in the public domain.

This PAS can be used for a composite reinforced flywheel in stationary applications but is considered more stringent than necessary for such applications.

This PAS is of interest to designers, manufacturers and original equipment manufacturer (OEM) installers of composite reinforced flywheels.

**Part 2: Composite reinforced flywheel containment system – Specification**

This part of PAS 23816 specifies requirements for a composite reinforced flywheel containment system for use in land-based mobile applications (e.g. automobiles, buses, trains and trams) in the public domain. It includes performance criteria for the containment system and test methods to demonstrate performance has been achieved.

This PAS can be used for a composite reinforced flywheel in stationary applications but is considered more stringent than necessary for such applications.

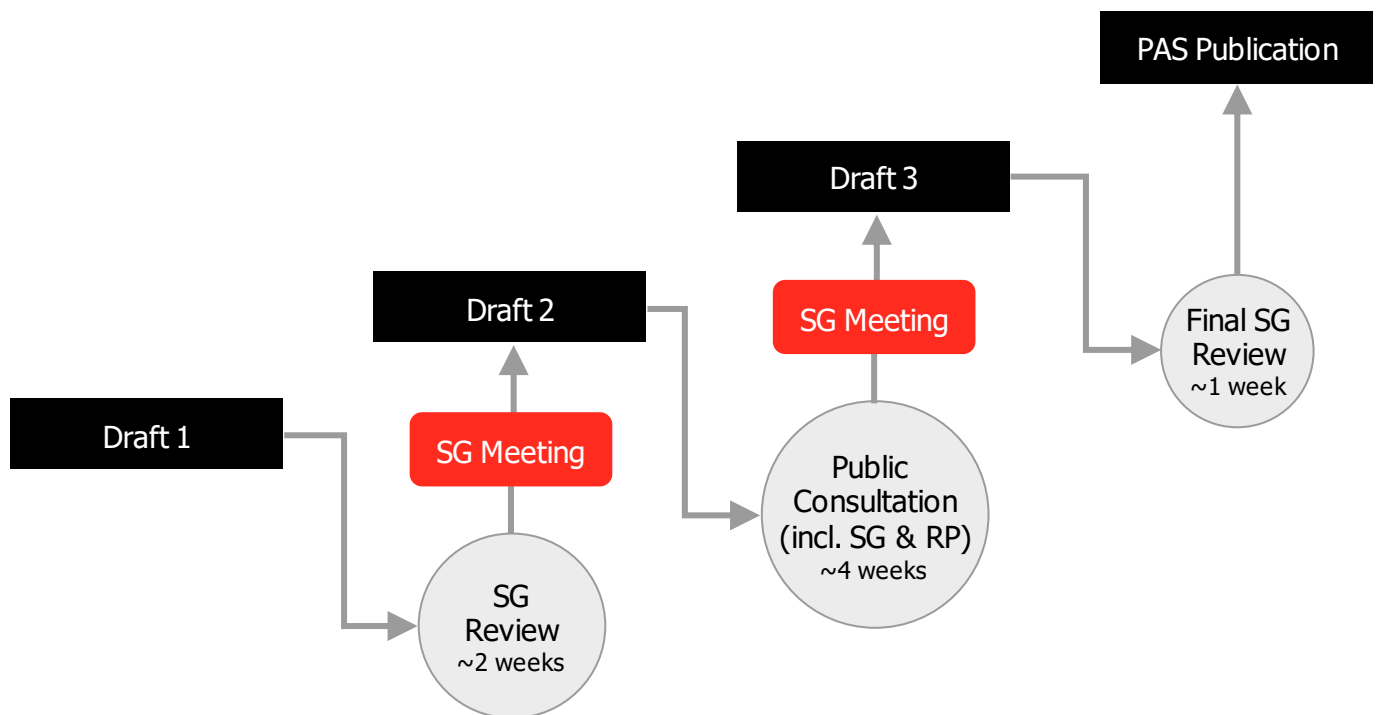
This PAS is of interest to designers, manufacturers and original equipment manufacturer (OEM) installers of composite reinforced flywheels.

**Responsibilities of the Steering Group (SG)**

The SG comprises stakeholders responsible for PAS draft development, draft approval and comments resolution. Specifically, the SG’s remit includes:

- a) providing broad-based representation of the industry to which the PAS relates
- b) providing technical expertise and sourcing relevant technical information, where required
- c) reviewing PAS drafts line by line and submitting comments electronically
- d) building consensus through resolution of SG and public comments at SG meetings
- e) identifying stakeholders to be on the Review Panel

**PAS process**



SG	steering group (8 to 15 stakeholders)
RP	review panel (targeted stakeholders, including BSI technical committees)
SG Review	draft is made available to SG only, for technical review
Public consultation	draft is made publicly available for technical review through BSI’s online draft review system < <a href="http://drafts.bsigroup.com/">http://drafts.bsigroup.com/</a> >
SG Ed. Review	draft is made available to SG only, for final (editorial) review

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SG Meeting

meeting where comments are resolved by the steering group members