

AUTHORISED MATERIALS

Everyday Examples of Authorised Materials

Issued 21 August 2026

Authorisation is determined by engineering validation, not by assumption.

HERU has been designed to operate only with specifically authorised materials that have been validated for use in accordance with HERU's prescribed operating method.

The examples below illustrate the types of materials currently authorised for HERU. They are illustrative rather than exhaustive, and the authorised materials schedule will continue to evolve as engineering validation progresses.

Materials currently authorised

Personal Hygiene Products

- Disposable nappies (diapers)
- Incontinence products
- Sanitary towels (pads)
- Tampons
- Facial tissues

Paper-Based Materials

- Paper
- Cardboard
- Kitchen roll
- Paper napkins
- Paper food packaging
- Shredded paper

Textiles

- Cotton
- Wool
- Polyester
- Nylon
- Suitable clothing and textile offcuts

Food & Kitchen Materials

- Fruit and vegetable peelings
- Uneaten cooked food
- Bread, rice and pasta
- Meat and fish residues
- Dairy products
- Egg shells
- Coffee grounds
- Tea bags

Plastic Packaging

- HDPE packaging (e.g. milk bottles)
- PET packaging (e.g. water and soft drink bottles)
- Plastic pots, tubs and trays
- Protective packaging materials (e.g. bubble wrap)

Timber & Wood

- Untreated timber
- Untreated wood offcuts

Materials not currently authorised

HERU has not been designed to operate with every material generated within a building. Materials are authorised only where they fall within HERU's validated operating envelope and prescribed operating procedures.

Metals

- Steel
- Aluminium
- Copper
- Brass

Glass & Mineral Materials

- Glass
- Ceramics
- Porcelain
- Stone
- Concrete

Electrical & Hazardous Materials

- Batteries
- Electrical and electronic equipment (WEEE)
- Hazardous chemicals
- Solvents
- Aerosols
- Clinical or infectious materials
- Radioactive materials
- Explosives
- Asbestos

Other Materials

- Rubber
- Leather
- Hard moulded plastic products (e.g. children's toys, garden furniture and similar durable plastic items)

Engineering principle

HERU authorises materials through engineering validation — not simply by the name, composition or category of a material.

Every authorised material has been assessed to ensure it can be safely and reliably used within HERU's prescribed operating method while maintaining system performance, emissions compliance and long-term integrity.

The examples above are intended to explain the types of materials authorised for HERU and do not constitute the complete engineering specification. The HERU Authorised Materials Standard forms part of HERU's prescribed operating procedures and defines the complete authorised materials schedule.

Closing statement

HERU has not been designed to accept everything. It has been engineered to operate safely, predictably and efficiently with specifically authorised materials intentionally retained by the holder for a further prescribed purpose.

That engineering discipline is fundamental to the performance, safety and integrity of every HERU system.