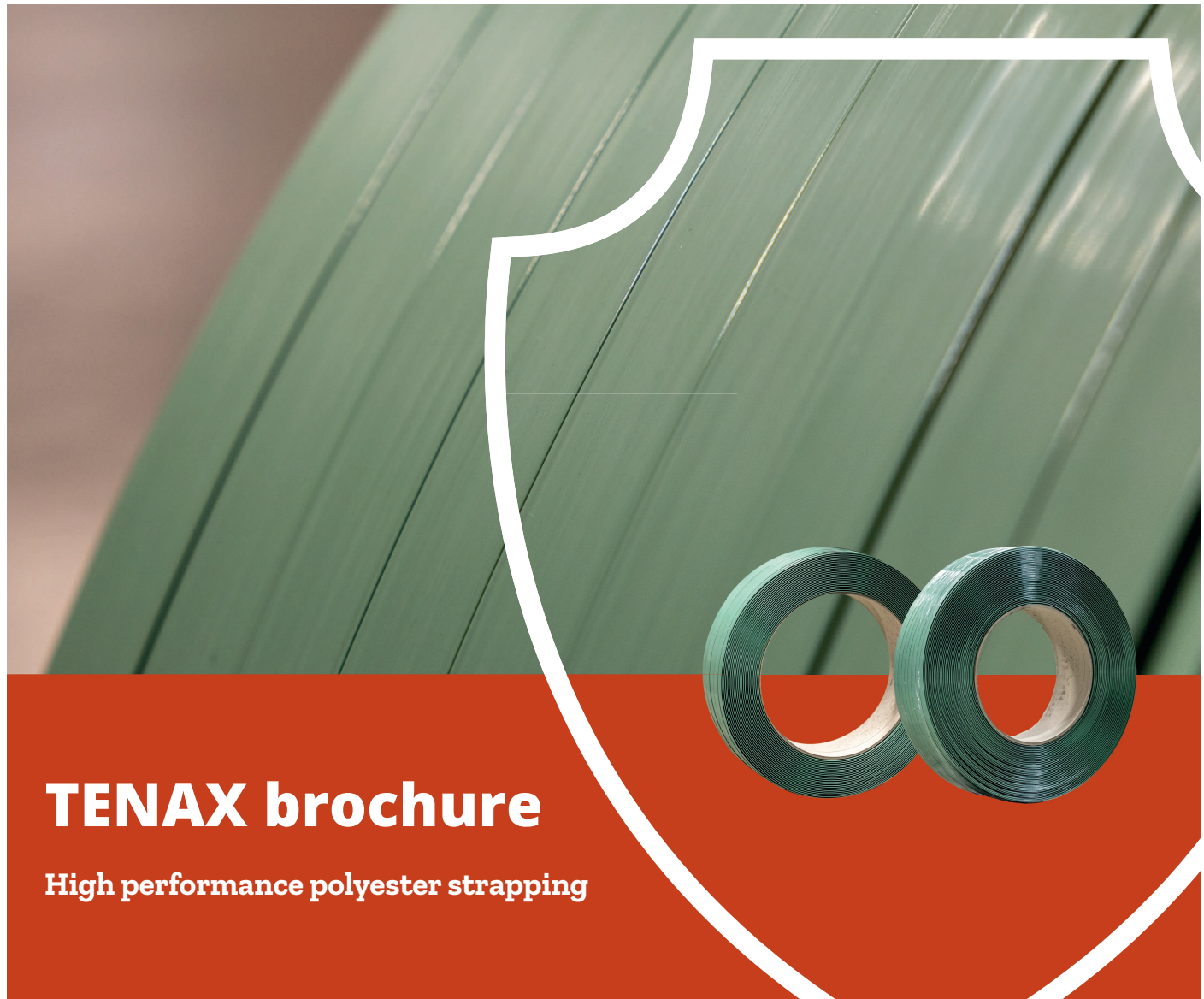


# TENAX®

## Flat PET strap



## TENAX brochure

High performance polyester strapping

### Elastic memory

Security of settling or cooling packs is retained as polyester Tenax maintains its grip at all times.

### Surface protection

TENAX is non-abrasive - no scratching, staining, indentation or surface damage, protects vulnerable materials.

### Easy handling

Being 80% lighter than steel strap and having no sharp edges, TENAX strapping is easier to handle than steel strap.

### Dynamic eco-system

Our consumables together with Signode machines and tools creates a dynamic eco-system available for our customers.

# TENAX

## Flat PET strapping

### Reasons why our plastic product range of high-strength TENAX flat polyester strapping are the key choice for consumers:

#### ■ Our TENAX Flat range

TENAX high performance polyester strapping from Signode offers so many benefits for packaging metals, corrugated and cans, construction products, fibre bales, timber and paper, plus many more. Simpler to use than steel alternatives, TENAX makes strapping easier and more economical.

#### ■ Plastic Strap Recycling program

Committed to developing ideas for recycling and reusing the products we make, Signode's recycling initiatives enable companies to recycle used TENAX polyester strapping to reduce their packaging waste and disposal costs. It's an easy, practical and economical way to fulfill your environmental safeguarding objectives.

#### ■ Excellent service and flexibility

We have a high level of service and a flexible organization. Helping our customers with material development is an important part of our work. It encourages both parties to constantly improve and thereby strengthen positions in the market.

#### ■ The same outstanding quality across our entire range

Signode plastic strapping is manufactured for use with hand tools and high-production power strapping machines. All types have controlled surface properties that minimize tensioning effort, increase tension transmission around corners and improve operating efficiency.

### Reliable quality for your products

Want your product to arrive in peak condition? TENAX provides unbeatable protection. It's totally non-abrasive so there's no risk of scratching, staining or denting of vulnerable materials.







## Key elements of our products:

### Why our complete range has a solution for every customer

#### ■ Fewer coil changes

Each coil holds up to four times more strap than steel strapping, reducing coil changes and increasing productivity.

#### ■ Retained high tension and high resistance to splitting

Ensures that pack is always secure with no loose straps. TENAX is specially formulated to provide high resistance to strap splitting.

#### ■ Efficient accommodation of load

Compared to steel strap, TENAX strapping offers great advantages: polyester absorbs shock far greater than steel strap thus accommodating the load more efficiently.

#### ■ Plastic TENAX products produced in Germany, Finland and the Netherlands

Our TENAX range is produced locally at our plants in Germany, Finland and the Netherlands giving us a closer proximity to our customers.

#### ■ Heavy duty, high strength TENAX

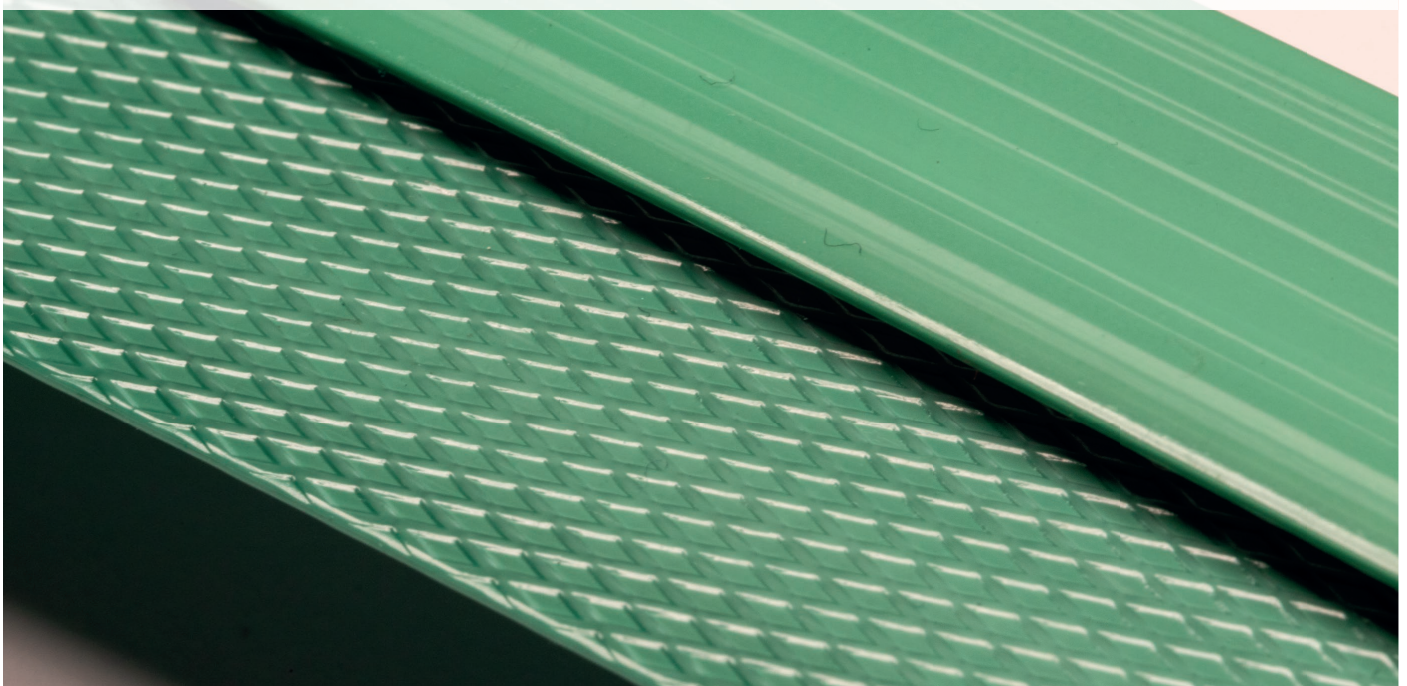
Sizes from 16mm x 0.59mm to 32mm x 1.27mm and up to 18,850 Newtons break strength for extra heavy duty applications.

#### ■ Maintains grip around cooling, shrinking or settling

With greater resistance to shock forces and unlike steel strap, polyester TENAX maintains its grip around a cooling, shrinking or settling pack – retaining total product security.

### Flat and Embossed

Our flat strapping range has higher break strength compared to embossed and is recommended for heavy loads. Its design is the perfect product for sharp corner loads.



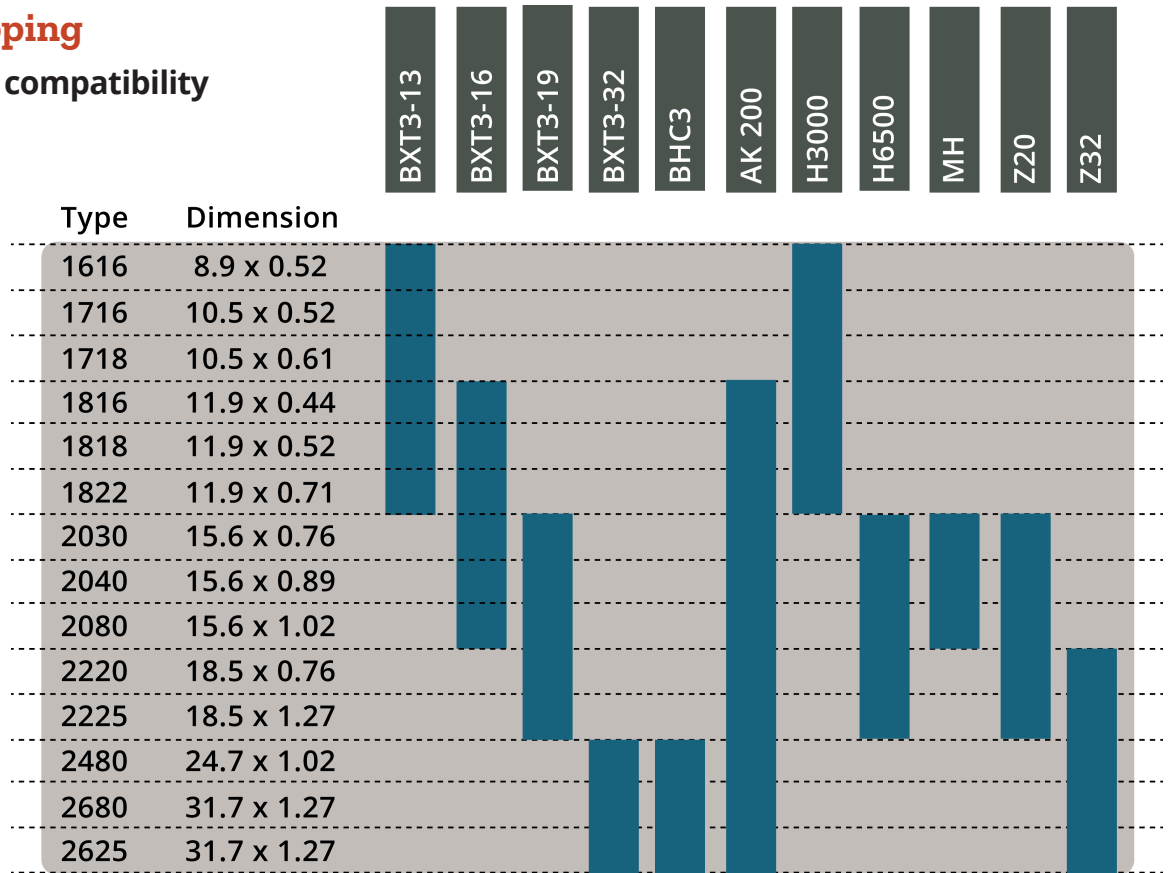
# TENAX

## Flat strapping



### TENAX strapping

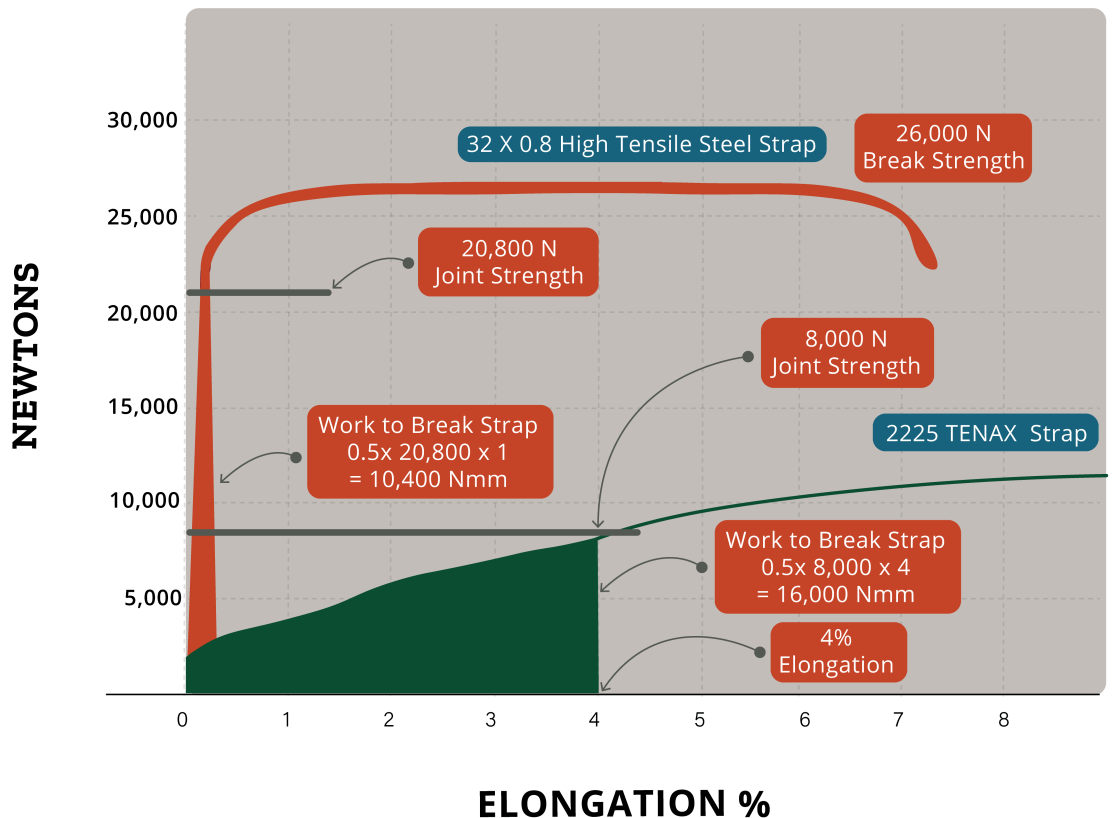
#### Heads and tool compatibility



### TENAX strapping

#### Load and elongation curves

#### HIGH TENSILE



# Sustainability

How we are making a difference

## TENAX strapping is recyclable

Made from recycled polyethylene terephthalate, Signode's polyester strapping can be recycled many times.

Our manufacturing plants recycle used TENAX strapping as well as postconsumer and post-industrial PET containers to make new TENAX strapping.



## Produced in Germany, Finland and the Netherlands

Our strapping products are produced locally in Germany, Finland and the Netherlands which not only allows for great quality control but ensures sustainability is improved in many different ways.



## Close proximity to our customers

Being closer to our customers not only increases our products overall sustainability but ensures quality customer service.



## Reduces overall emissions significantly

Emissions are reduced across our TENAX range.



## Mark of quality

Production of TENAX strapping at our Liljendal, Dinslaken and Heerlen plants ensures a consistent quality our customers have come to expect.



**WE'LL ALWAYS  
PROTECT IT.**



# TENAX

## Flat Standard coil



### Product Specifications

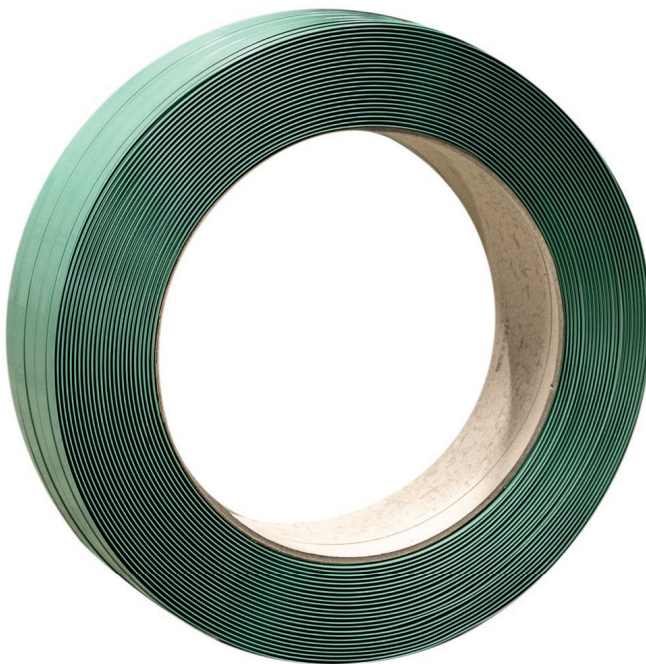
|                  |              |
|------------------|--------------|
| Colour           | Green        |
| Width (mm)       | 8.9 - 32     |
| Thickness (mm)   | 0.52 - 1.27  |
| Length (meter)   | 450 - 5000   |
| Kg / coil        | 25           |
| Core (mm)        | 408          |
| Coils per pallet | 12 or 24     |
| Packaging        | Stretch wrap |

### Technical Specifications

|                         |              |
|-------------------------|--------------|
| Tensile strength (N/mm) | 450          |
| Break strength (N)      | Up to 18,850 |
| Elongation (%)          | 12 - 20      |

### Dimensions:

Image shows TENAX Flat Standard coil  
All dimensions in mm



### Industries:

- Tenax flat can be used for wood/lumber, panel board, metals, bailing, can, construction and general industries.

# TENAX

## Flat Jumbo coil



### Product Specifications

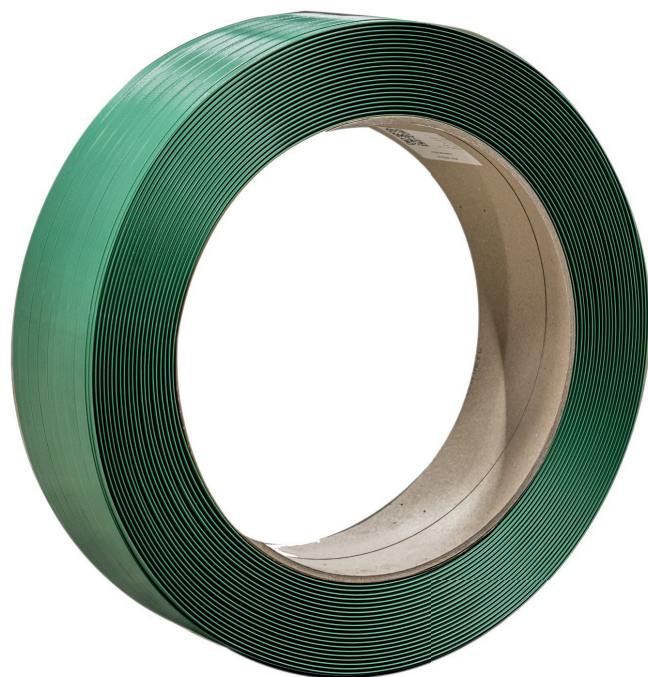
|                  |              |
|------------------|--------------|
| Colour           | Green        |
| Width (mm)       | 15.6 - 24.7  |
| Thickness (mm)   | 0.76 - 1.27  |
| Length (meter)   | 4800         |
| Kg / coil        | 70           |
| Core (mm)        | 408          |
| Coils per pallet | 6            |
| Packaging        | Stretch wrap |

### Technical Specifications

|                         |              |
|-------------------------|--------------|
| Tensile strength (N/mm) | 450          |
| Break strength (N)      | Up to 18,850 |
| Elongation (%)          | 12 - 20      |

### Dimensions:

Image shows TENAX Flat Jumbo coil  
All dimensions in mm



### Industries:

- Tenax flat can be used for wood/lumber, panel board, metals, bailing, can, construction and general industries.

# TENAX

## Flat Super Jumbo Coil



### Product Specifications

|                  |              |
|------------------|--------------|
| Colour           | Green        |
| Width (mm)       | 15.6 - 32    |
| Thickness (mm)   | 0.89 - 1.27  |
| Length (meter)   | 6500         |
| Kg / coil        | 115          |
| Core (mm)        | 408          |
| Coils per pallet | 4            |
| Packaging        | Stretch wrap |

### Technical Specifications

|                         |              |
|-------------------------|--------------|
| Tensile strength (N/mm) | 450          |
| Break strength (N)      | Up to 18,850 |
| Elongation (%)          | 12 - 20      |

### Dimensions:

Image shows TENAX Flat Super Jumbo coil  
All dimensions in mm



### Industries:

- Tenax flat can be used for wood/lumber, panel board, metals, bailing, can, construction and general industries.