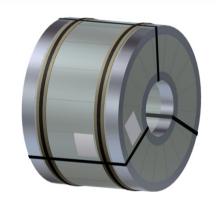
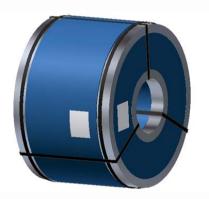
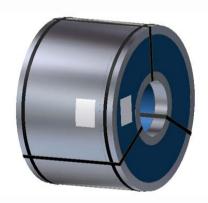
Pesmel Packing Book







Pesmel Packing Book

This Packing Book is developed to work as a tool when selecting and specifying the needed levels of packing.

This Packing Book includes a selection of internationally approved, most common and recommended ways of packing.

Environmental sustainability is a part of the development of new packing methods. All packing materials recommended in this book are recyclable and most of them are already manufactured from recycled material.

Different combinations and other special requirements are possible, if needed.



Packing Codes

Pesmel packing code informs the level of packing as follows:

Packing Code: 63FE+options



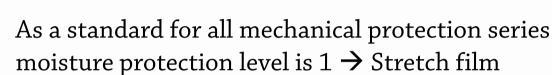
- 1. Level of mechanical protection \rightarrow divided to different series from 10 to 80
- 2. Level of moisture and dirt protection \rightarrow selected from 3 different levels
- 3. Options made before moisture protection \rightarrow selected according to need
- 4. Options for special combinations like 63FE+Protection Strips → selection together with Pesmel representative



Moisture Protection

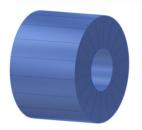


1 Stretch film



Selection of the moisture protection level:

Other levels can be selected from models below



2 VCI film + Stretch film Packing Code Example: 63FE+options



3 Crep Paper + Stretch film

Moisture protection level

(valid in all mechanical protection series):

1 Stretch film

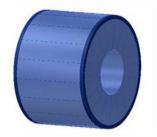
2 VCI film + Stretch film

3 Crep paper + Stretch film



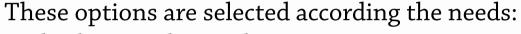


Moisture Protection



OE Outer Edge protection

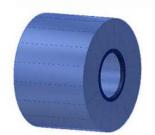
Additional options in moisture protection:



Coil is having sharp edges Material is extra sensitive

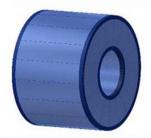
Light packing for storing nearby is used

Handling needs extra protection



IE Inner Edge protection

Packing Code Example: 63**FE**+options



FE Outer and Inner Edge protection Option marking as follows:

OE Outer Edge protection → Plastic under the film IE Inner Edge protection → Plastic under the film FE Outer and Inner protection → Plastic under the film



Packing Codes

Selection of the mechanical protection:

Mechanical protection is divided to different series from 10 to 80:

Packing Code Example: **6**3FE+options

Mechanical protection level:

SERIES	HANDLING METHOD	HANDLING TIMES	TRANSPORTATION
10	Handling with hooks	1-3 Handling automatically	Internal use in mill or nearby
20	Handling with hooks	2-4 Handling automatically	Standard transportation vehicle with stands
30	Handling with hooks	3-6 Handlings	Truck / train transportation horizontally
40	Handling with hooks	3-6 Handlings	Truck / train transportation horizontally
50	Handling with hooks or Chains	4-8 Handlings	Truck / train transportation horizontally or vertically Maritime transportation Continental and Intercontinental
60	Handling with hooks or Chains	4-8 Handlings	Truck / train transportation horizontally or vertically Maritime transportation Continental and Intercontinental
70	Handling with hooks or Chains	4-8 Handlings	Truck / train transportation horizontally or vertically Maritime transportation Continental and Intercontinental
80	Handling with hooks or Chains	4-8 Handlings	Truck / train transportation horizontally or vertically Maritime transportation Continental and Intercontinental





10 Series

Code 11

- 0. Coil before wrapping
- 1. Wrapping through the eye by PE film
- 2. Labelling with 2 labels





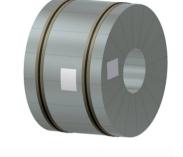


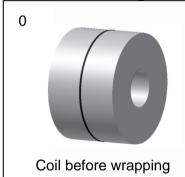


20 Series

Code 21

- 0. Coil before wrapping
- 1. Wrapping through the eye by PE film
- 2. Protection strips 2 pcs → Paper, Plastic, Rubber
- 3. Circumferential strapping 2 pcs → Plastic, Steel
- 4. Labelling with 2 labels













30 Series

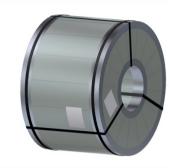
- 0. Coil before wrapping
- 1. Wrapping through the eye by PE film
- 2. Inner Edge Protection 2 pcs → Steel
- 3. Outer Edge Protection 2 pcs → Steel
- 4. Radial Strapping 3 pcs → Plastic, Steel

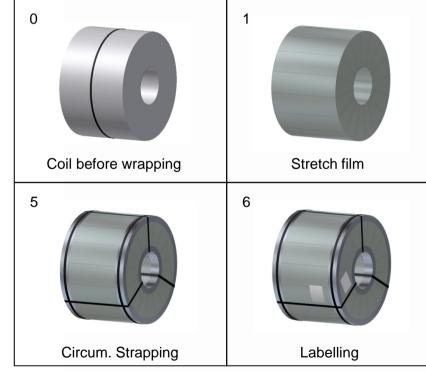
Code 31

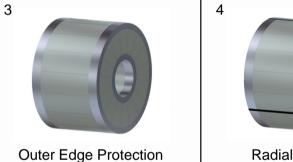
Inner Edge Protection

2

- 5. Circumferential strapping 2 pcs → Plastic, Steel
- 6. Labelling with 2 labels









40 Series

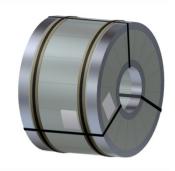
- 0. Coil before wrapping
- 1. Wrapping through the eye by PE film
- 2. Protection strips 2 pcs → Paper, Plastic, Rubber
- 3. Inner Edge Protection 2 pcs → Steel
- 4. Outer Edge Protection 2 pcs → Steel

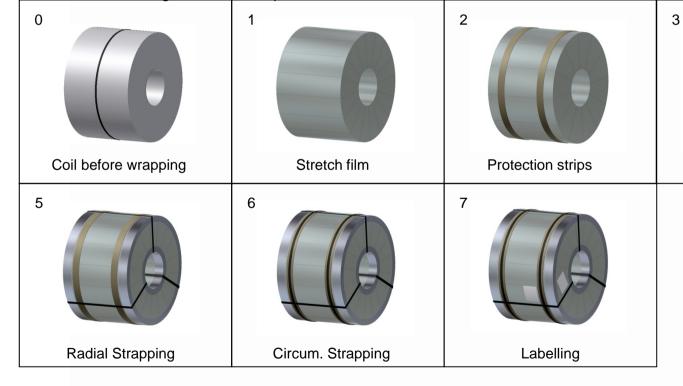
Code 41

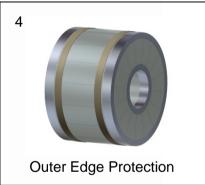
- 5. Radial Strapping 3 pcs → Plastic, Steel
- 6. Circumferential strapping 2pcs → Plastic, Steel

Inner Edge Protection

7. Labelling with 2 labels







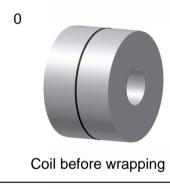
50 Series

- 0. Coil before wrapping
- 1. Wrapping through the eye by crep paper and PE film
- 2. Outer Body Wrapping → Steel
- 3. Inner Body Wrapping → Steel
- 4. Headers 2 pcs → Steel

Code 53

- 5. Inner Edge Protection 2 pcs → Steel
- 6. Outer Edge Protection 2 pcs → Steel
- 7. Radial Strapping 3pcs → Plastic, Steel
- 8. Circumferential strapping 2 pcs → Plastic, Steel
- 9. Labelling with 2 labels













5

Inner Edge Protection









Radial Strapping

Circum. Strapping

Labelling

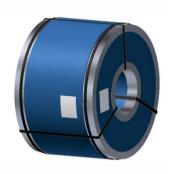


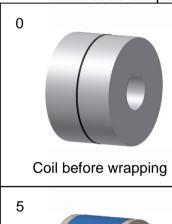
60 Series

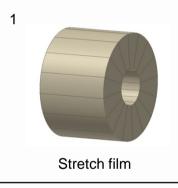
- 0. Coil before wrapping
- 1. Wrapping through the eye by crep paper and PE film
- 2. Outer Body Wrapping → Plastic
- 3. Inner Body Wrapping → Plastic
- 4. Headers 2 pcs → Plastic

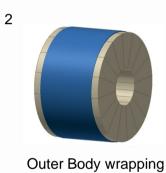
Code 63

- 5. Inner Edge Protection 2 pcs → Steel
- 6. Outer Edge Protection 2 pcs → Steel
- 7. Radial Strapping 3pcs → Plastic, Steel
- 8. Circumferential strapping 2 pcs → Plastic, Steel
- 9. Labelling with 2 labels

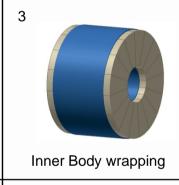


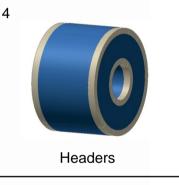




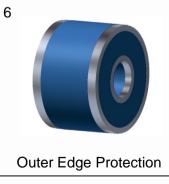


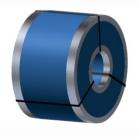
7



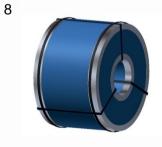




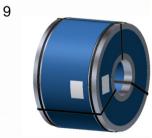








Circum. Strapping



Labelling

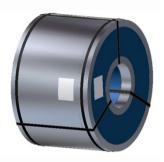


70 Series

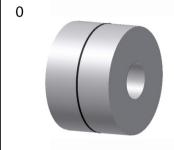
- 0. Coil before wrapping
- 1. Wrapping through the eye by crep paper and PE film
- 2. Outer Body Wrapping → Plastic
- 3. 2nd Outer Body Wrapping → Steel
- 4. Inner Body Wrapping → Plastic

Code 73

- 5. Headers 2 pcs → Plastic
- 6. Inner Edge Protection 2 pcs → Steel
- 7. Outer Edge Protection 2 pcs → Steel
- 8. Radial Strapping 3pcs → Plastic, Steel
- 9. Circumferential strapping 2pcs → Plastic, Steel



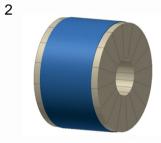
10. Labelling with 2 labels



Coil before wrapping

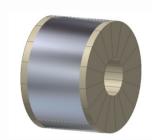


Stretch film

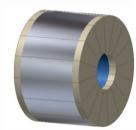


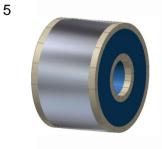
Outer Body wrapping

7

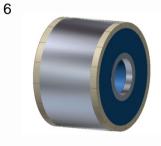


2nd Outer Body wrapping

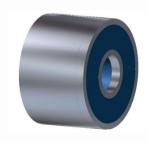




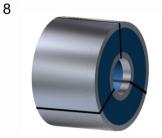
Headers



Inner Edge Protection



Outer Edge Protection



Radial Strapping



Circum. Strapping/Labeling

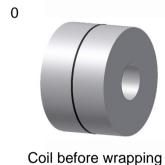
80 Series

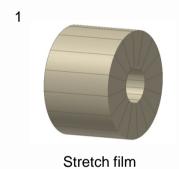
- 0. Coil before wrapping
- 1. Wrapping through the eye by crep paper and PE film
- 2. Outer Body Wrapping → Plastic
- 3. 2nd Outer Body Wrapping → Steel
- 4. Inner Body Wrapping → Plastic

Code 83

- 5. 2nd Inner Body Wrapping → Steel
- 6. Headers 2 pcs → Plastic
- 7. 2nd headers 2 pcs → Steel
- 8. Inner Edge Protection 2 pcs → Steel
- 9. Outer Edge Protection 2 pcs → Steel







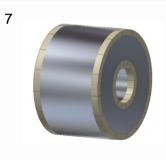


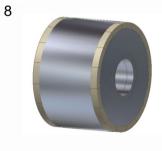














2nd Headers

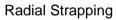
Inner Edge Protection

80 Series Code 83

- 10. Radial Strapping 3 pcs → Plastic, Steel
- 11. Circumferential strapping 2 pcs → Plastic, Steel
- 12. Labelling with 2 labels











Palletizing

Palletizing is a good option when considering mechanical protection for products. Especially if product is sensitive or delivery chain includes lot's of handling, palletizing can be considered as one of the packing options.

Pallet offers good mechanical protection without packing the product heavily, although also the heavy packing codes can be improved by palletizing products.

Palletizing also makes it possible to handle products with normal forklifts, which is a clear benefit especially for distribution.

Palletizing can be done horizontally or vertically. By adding cardboards or lids, it is possible to improve the pack even more.





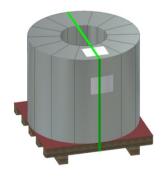
Horizontal Palletizing



Horizontal Palletizing with CardBoard



Vertical Palletizing



Vertical Palletizing with CardBoard



Vertical Palletizing with Lid



Vertical Palletizing with CardBoards and Lid

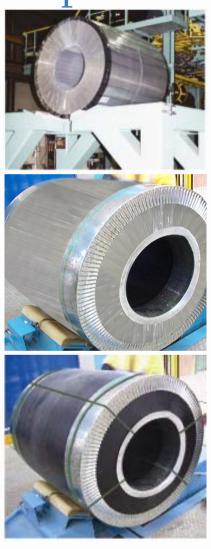


Packing Materials

THROUGH THE EYE WRAPPING Stretch Film PE VCI Film Crep Paper	Thickness 40-80 µm Thickness 40-120 µm Grammage 60-120 g/m2
INTEGRATED EDGE PROTECTION Corrugated Plastic Solid Plastic	Thickness 2,5mm Thickness 2,5mm
BODY WRAPPING MACHINE INNER/OUTER Corrugated Plastic Solid Plastic Cardboard Paper Galvanized Steel	Thickness 2,5 - 4mm Thickness 2-4mm Thickness 1-2mm Thickness 0,5 – 0,8mm
PROTECTION STRIP FEEDER Cardboard Paper Plastic Rubber	Thickness 1 – 2 mm Thickness 2 – 4 mm Thickness 1 – 2 mm
HEADERS Corrugated Plastic Solid Plastic Hardboard Galvanized Steel	Thickness 2,5 - 4mm Thickness 2-4mm Thickness 2-4mm Thickness 1mm
INNER EDGE PROTECTION STEEL Galvanized Steel	Thickness 0,8-1,2mm
OUTER EDGE PROTECTION STEEL Galvanized Steel	Thickness 0,6-1,0mm
STRAPPING Plastic Steel	19, 25, 32mm 19, 25, 32mm
LABELLING Self adhesive	Size TBD (A5, A4, A3)



Examples



110E

Stretch film wrapped coil with integrated outer edge protection

31

Stretch film wrapped coil with steel edge protectors

61 Stretch film wrapped coil with heavy mechanical protection





Pesmel Packing Book

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