

HB M45 Continuous chain Metal zip (#3.5)





Dimensions (approx.)

Chain width:	4,5 mm
Chain thickness:	2 mm
Single tape widths:	13 mm

Features

Woven polyester / cotton tape in herringbone pattern; Suitable for post dyeing

Chain members from brass



Quality

HB M45 CC

Quanty	
Lateral strength	> 587 N
Lateral strength after reciprocation	> 529 N
Operating force	< 4 N
Reciprocation (durability)	> 500 cycles
(The guality data represent minimum performance loyale)	

(The quality data represent minimum performance levels)

Main uses		
Jeans	i	
Trous	ore	

Trousers

Pockets of light leather apparel

Fastness

		Change	Staining
Washing 60° C	(ISO 105-C06)	4	4
Water	(ISO 105-E01)	4	4
Dry-cleaning	(ISO 105-D01)	4	34
Light	(ISO 105-B02)	5	
Rubbing wet	(ISO 105-X12)		3 4
Rubbing dry	(ISO 105-X12)		4

(These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels)

Standards

EN 16732 – class B	CPSIA HR4040;
BS 3084:2006;	F963;
DIN 3416 – 19;	EN71;
Oeko-Tex 100 Class 1	QM System according BS EN ISO 9001:2008



HB M45 Closed End Metal zip (#3.5)





Dimensions (approx.)

Chain width:	4,5 mm
Chain thickness:	2 mm
Single tape widths:	13 mm
Length of tape ends:	top: 20±2 mm
	bottom:17±2mm

Features

Woven polyester / cotton tape in herringbone pattern; Suitable for post dyeing

Slider body out of die casted zinc, puller out of zinc or stamped brass/steel

Chain members from brass

Top stops and bottom stops from brass





Quality

Quality	
Lateral strength	> 587 N
Lateral strength after reciprocation	> 529 N
Operating force	< 4 N
Reciprocation (durability)	> 500 cycles
Pull off strength of puller	> 196 N
Slider locking strength	> 60 N
Slider over top stops	> 98 N
Lateral strength of bottom stop	> 75 N
Slider against bottom stop	> 78 N
(The quality data represent minimum performance	e levels)

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Fastness

Washing 60° C (ISO 105-C06) 4 4 Water (ISO 105-E01) 4 4 Dry-cleaning (ISO 105-D01) 4 34 Light (ISO 105-B02) 5 5 Rubbing wet (ISO 105-X12) 34			Change	Staining
Dry-cleaning (ISO 105-D01) 4 34 Light (ISO 105-B02) 5	Washing 60º C	(ISO 105-C06)	4	4
Light (ISO 105-B02) 5	Water	(ISO 105-E01)	4	4
	Dry-cleaning	(ISO 105-D01)	4	34
Rubbing wet (ISO 105-X12) 3 4	Light	(ISO 105-B02)	5	
	Rubbing wet	(ISO 105-X12)		3 4
Rubbing dry (ISO 105-X12) 4	Rubbing dry	(ISO 105-X12)		4

(These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels)

Standards

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BS 3084:2006;	F963;
DIN 3416 – 19;	EN71;
Oeko-Tex 100 Class 1	QM System according BS EN ISO 9001:2008

Ma	in uses
Jea	ans
Tro	ousers
Po	ckets of light leather apparel
Sw	veatshirts
Са	sual skirts



HB M45 Open End Metal zip (#3.5)





Dimensions (approx.)

4,5 mm
2 mm
13 mm
top: 20±2 mm

Features

Woven polyester / cotton tape in herringbone pattern; Suitable for post dyeing

Slider body out of diecasted zinc, puller out of zinc or stamped brass/steel

Chain members from brass

Top stops and bottom stops from brass

HB M45 OE



Quality

Quality	
Lateral strength	> 587 N
Lateral strength after reciprocation	> 529 N
Operating force	< 4 N
Reciprocation (durability)	> 500 cycles
Pull off strength of puller	> 196 N
Slider locking strength	> 60 N
Slider over top stops	> 98 N
Lateral strength of open end	> 75 N
Box pull off strength	> 78 N
(The quality data represent minimum performance	e levels)

ata represent minimum performance levels;

Fastness

		Change	Staining
Washing 60° C	(ISO 105-C06)	4	4
Water	(ISO 105-E01)	4	4
Dry-cleaning	(ISO 105-D01)	4	34
Light	(ISO 105-B02)	5	
Rubbing wet	(ISO 105-X12)		3 4
Rubbing dry	(ISO 105-X12)		4

(These fastness grades represent minimum performance levels and, in practice, the majority of shades will exceed these levels)

Standards

EN 16732 – class B	CPSIA HR4040;	
BS 3084:2006;	F963;	
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