

SHUTTERING PROFILES & MAGNETS



■ OLMET ITALY

1 MAGNETIC SHUTTERING PROFILES FOR FORMWORKS

P. 5

2 FORMWORKS SHUTTERING MAGNETS

P. 77

3 RECESS ACCESSORIES

P. 87

Concrete Machinery to build the future

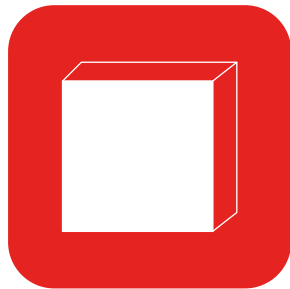
Your expert partner in designing and manufacturing concrete pre-casting machinery and plants

OLMET ITALY designs and manufactures machinery and plants for pre-casting concrete elements.

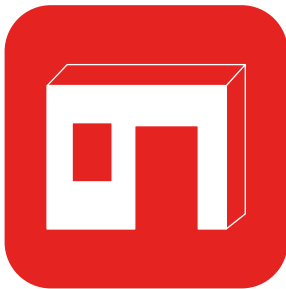
Since 1961 the company is committed to ensure continuity of vision and values between past, present and future, maintaining always the most suitable organization to follow market evolution.

With the experience gained over the years, OLMET ITALY can offer to customers worldwide its extensive range of cutting-edge accessories, such as formwork shuttering profiles and magnets, in order to help them facing any challenge, today and tomorrow.

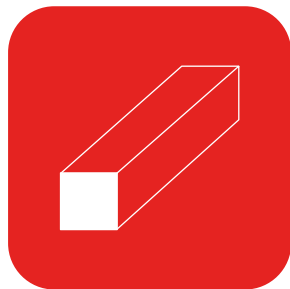




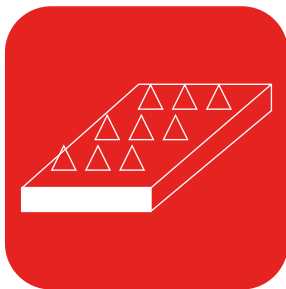
Solid and sandwich walls



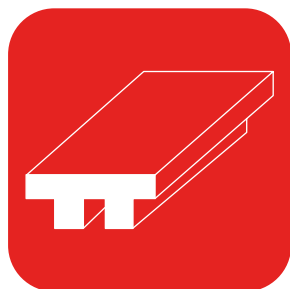
Recesses



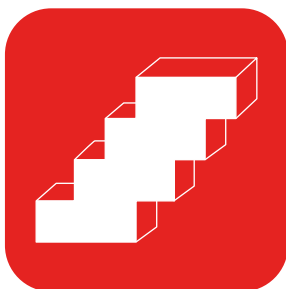
Columns & beams



Girder slabs and double walls



TT



Stairs

MAGNETIC SHUTTERING PROFILES

1.1 OFF FLEXIBLE FORM



P. 7

1.2 ORF ROBUST FORM



P. 19

1.3 OMF MULTIVAR FORM



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1.4 OSF STRONG FORM



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1.5 OAF AUTOMATIC FORM



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1.6 OCF CHANGEABLE FORM



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1.7 OGF GIRDER FORM



P. 65

1.8 OTF TT FORM



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1.1 OFF

FLEXIBLE FORM

FLEXIBLE AND USER FRIENDLY:

this shuttering system is equipped with a series of ribs that allow the desired height adjustment.

Furthermore, the wide range of accessories make it easy to use with plywood profiles, while gearing to any customer needs.



OFF

FIELD OF APPLICATION

Longitudinal and transversal shuttering for all flat precast concrete elements with wall thicknesses from 60 mm/2,4" to 400 mm/15,7". This product is recommended for:

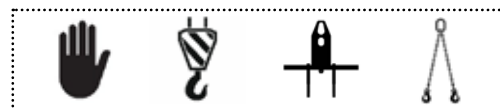
- Many variants of precast concrete elements
- Production of recesses like doors, windows, stairs, etc.
- Protruding reinforcing bars
- Stationary production
- On-site production
- Complex profiles
- Low level of automation
- Manual handling



DETAILED SPECIFICATIONS

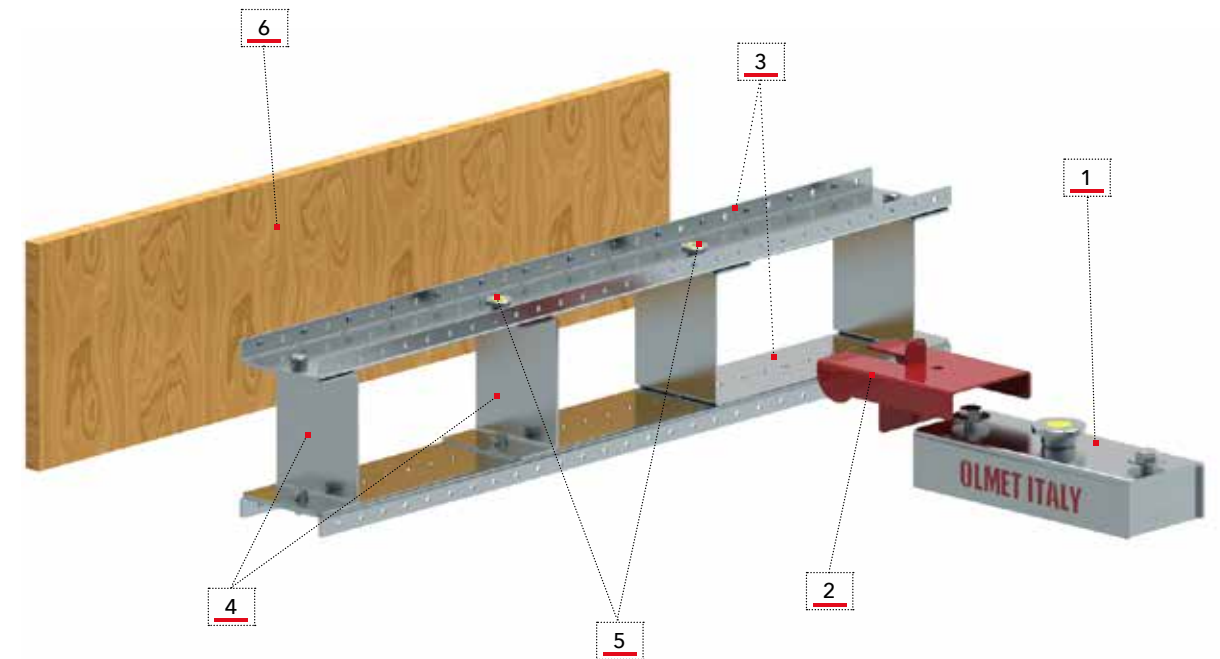
Handling

- Manually, crane, lifting beam, lifting chains



Dimensions

- Standard lengths 500 mm/19,7", 1000 mm/3,2', 2000 mm/6,5', 3000 mm/9,8' (special lengths available on request)
- The plywood can protrude from 10 mm/0,4" to max 70 mm/2,7" in height (see the scheme at page 10)
- The plywood can protrude up to max 125 mm/5" in length
- Standard width 120 mm/4,7" (special widths available on request)
- Total shuttering heights from 60 mm/2,3" to 400 mm/15,7"

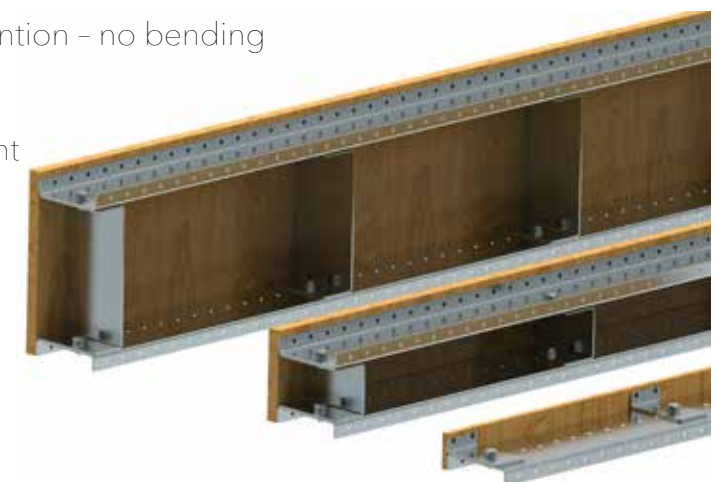


ELEMENTS

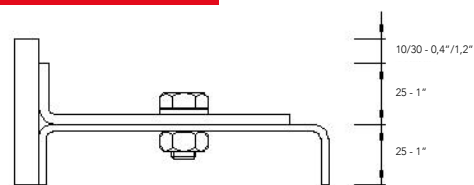
1. OSM - Standard magnetic box
2. OFF Clamping bracket
3. OFF Base profile
4. OFF Ribs
5. Lifting knob
6. Shuttering skin (provided by customer)

MAIN ADVANTAGES

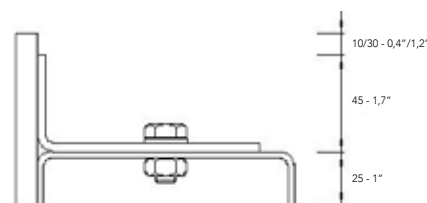
- Height-adjustable just by changing the ribs
- Extensible
- Adapter for concreting raised floors and steps
- Wooden shuttering skin
- Steel shuttering skin
- Excellent stability and shape retention - no bending
- Simple and quick installation
- Quick and easy fixing
- Quick and easy height adjustment by replacing the ribs
- Space saving storage



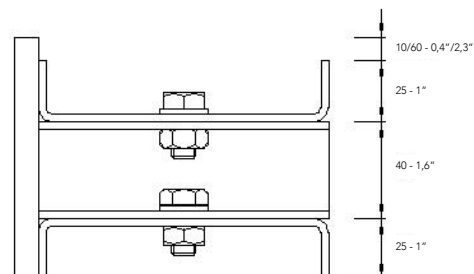
60/80 - 2,3"/3,1"



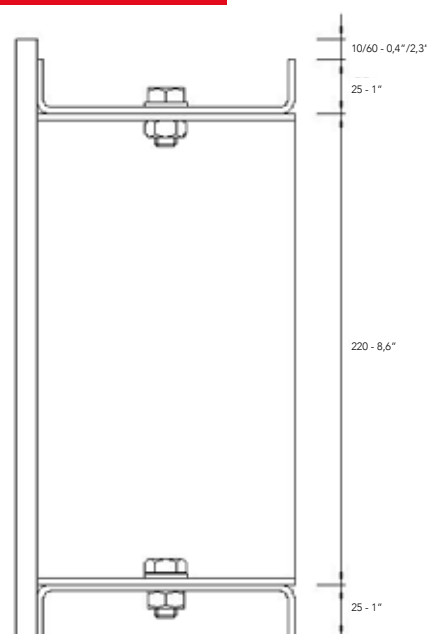
80/100 - 3,1"/3,9"



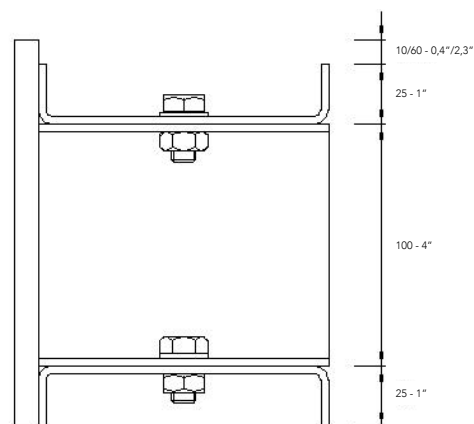
100/150 - 3,9"/5,9"



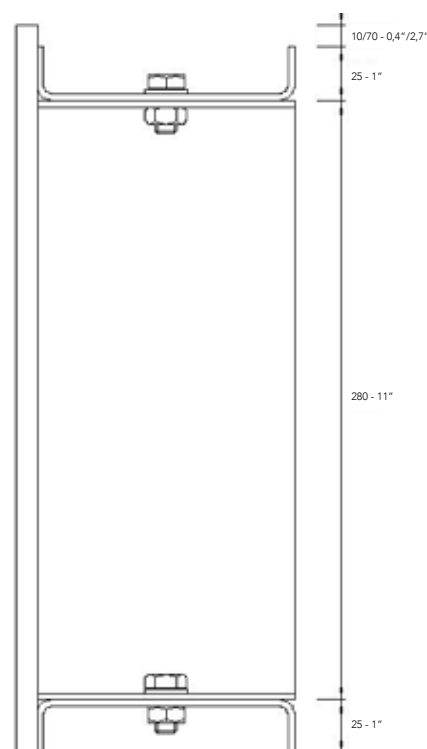
280/330 - 11"/13"



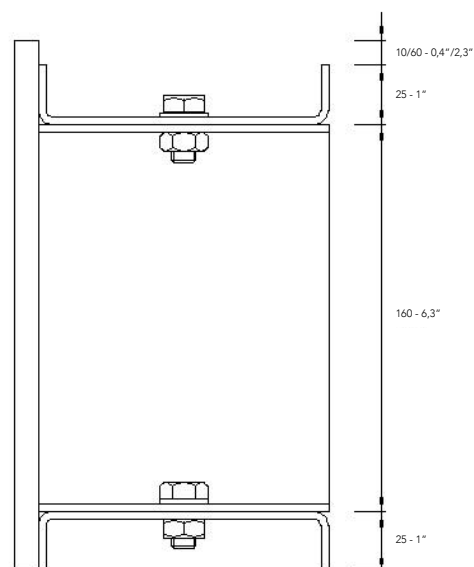
160/210 - 6,3"/8,2"



340/400 - 13,4"/15,7"

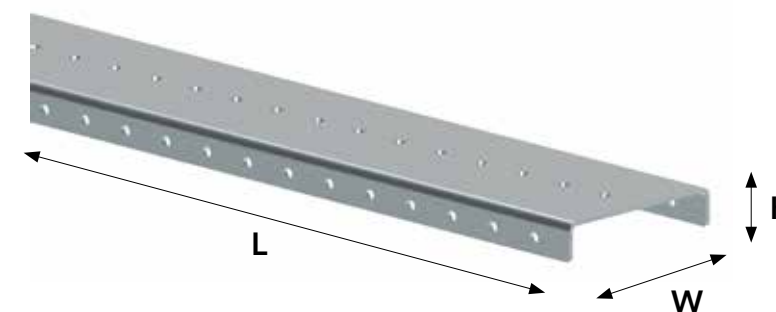


220/270 - 8,6"/10,6"



ITEMS

→ OFF BASE PROFILE



Model	F500B		F1000B		F2000B		F3000B	
L	500 mm	19,7"	1000 mm	39,7"	2000 mm	78,7"	3000 mm	118,11"
W	120 mm	4,7"	120 mm	4,7"	120 mm	4,7"	120 mm	4,7"
H	25 mm	1"	25 mm	1"	25 mm	1"	25 mm	1"
Weight	1.8 kg	3,9 lb	3.6 kg	7,9 lb	7.2 kg	15,9 lb	10.8 kg	23,8 lb

→ OFF CLAMPING BRACKET TO FIX OFF BASE PROFILE (SHORT SIDE)



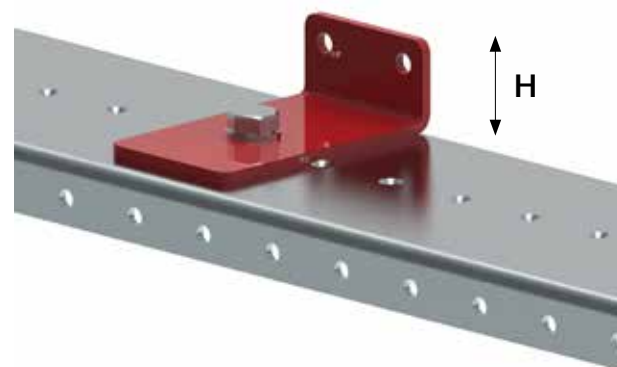
Model	F120S	
Weight	1.5 kg	3,3 lb

→ OFF CLAMPING BRACKET TO FIX OFF BASE PROFILE (LONG SIDE)



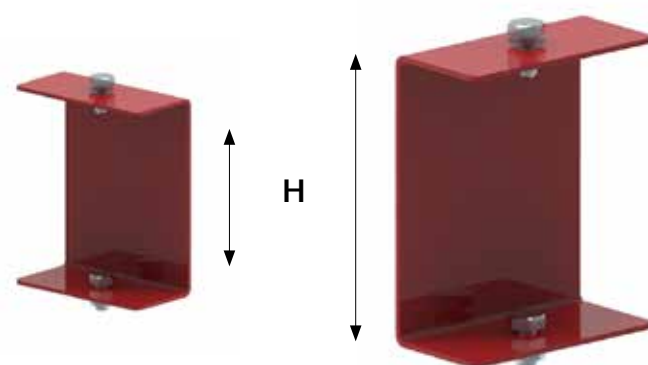
Model	F320L	
Weight	2.5 kg	5,5 lb

→ OFF ANGLE ADAPTER H=45-60 mm FOR BASE PROFILE



Model	H		Shuttering heights	
F20A	25 mm	1"	60 to 80 mm	2,3" to 3,1"
F45A	45 mm	1,8"	80 to 100 mm	3,1" to 4"

→ OFF RIBS



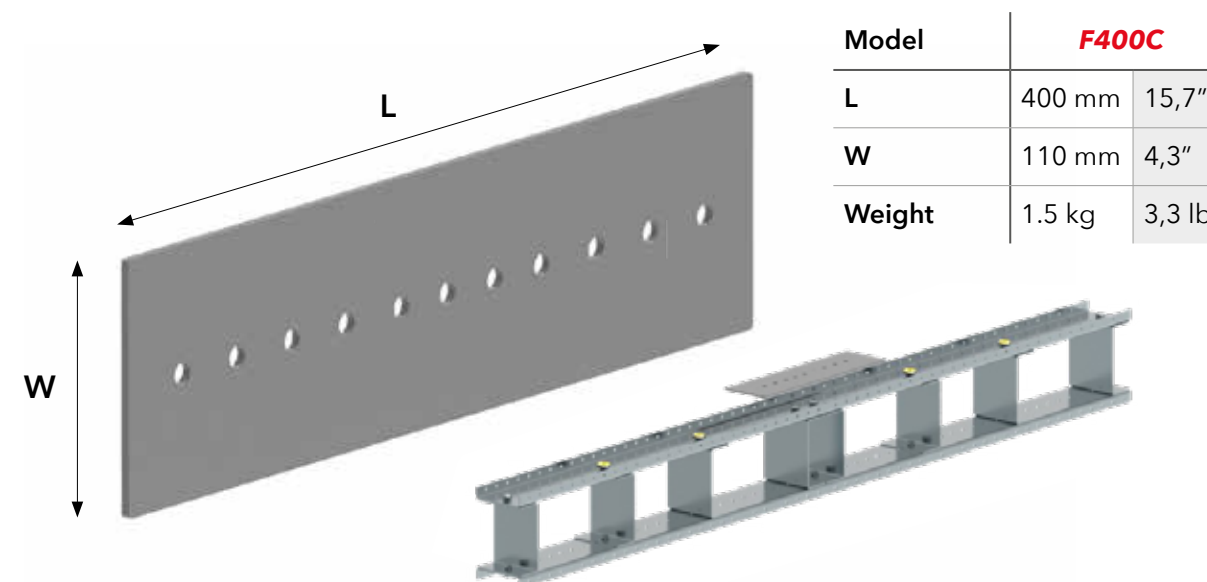
Model	Rib height (H)		Shuttering heights	
F40R	40 mm	1,6"	100 to 150 mm	4" to 6"
F100R	100 mm	4"	160 to 210 mm	6,2" to 8,3"
F160R	160 mm	6,2"	220 to 270 mm	8,6" to 10,6"
F220R	220 mm	8,6"	280 to 330 mm	11" to 13"
F280R	280 mm	11"	340 to 400 mm	13,4" to 15,7"

Length of base profile	500 mm	19,7"	1000 mm	39,7"	2000 mm	78,7"	3000 mm	118,1"
Number of ribs	2		3		5		7	

→ LIFTING KNOBS



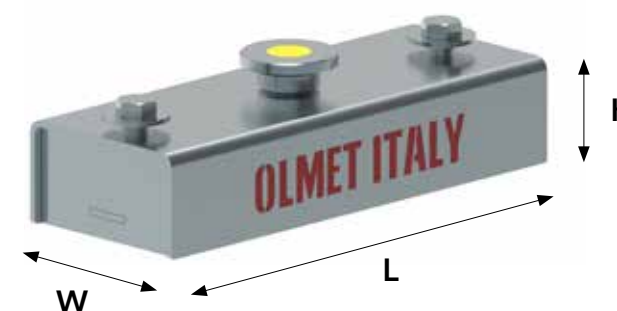
→ OFF COUPLING SHEET



Model	F400C	
L	400 mm	15,7"
W	110 mm	4,3"
Weight	1.5 kg	3,3 lb

→ OSM - OLMET STANDARD MAGNETIC BOX

The Olmet standard magnet is suitable for any kind of shuttering profile



Model	OSM21	
L	320 mm	12,6"
W	120 mm	4,7"
H1 case	65 mm	2,5"
H2 button down	85 mm	3,3"
H3 button up	95 mm	3,7"
Retaining force	2100 kg	4629 lb
Weight	8.5 kg	18,7 lb

→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100	
Weight	10 kg	22 lb

→ STORAGERACK

For storage of magnets box with adapters



Model	MRS12		MRS18	
Rack spaces	12		18	
Weight	30 kg	66,1 lb	50 kg	110,2 lb

→ LIFTING BEAM

Tool to easy lift the profiles equipped with lifting knobs model LK1



Model	LT200	
Weight	55 kg	121,2 lb



→ OFF RAISED FLOOR ADAPTER

The adapter is integrated into the Olmet magnet system, it is suitable for upstands and adjustable in height and length

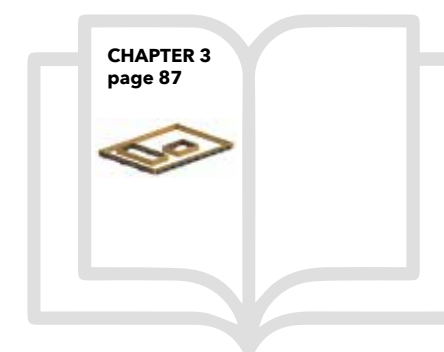


Model	F320RF	
Weight	60 kg	132,3 lb

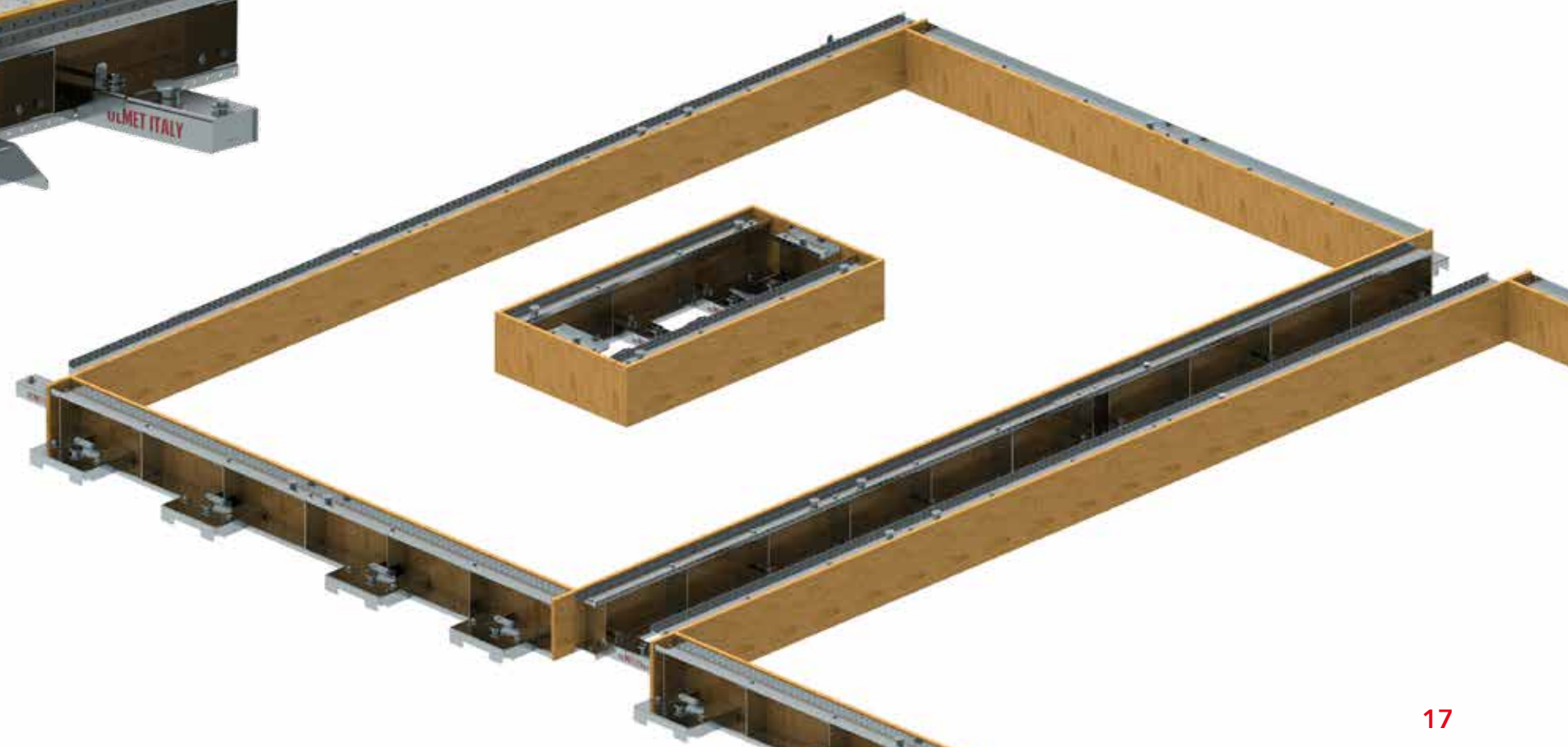


→ RECESS ACCESSORIES

Wide range of accessories for inserts, such as doors and windows, in chapter 3



OFF APPLICATION EXAMPLES



1.2 ORF

ROBUST FORM

ROBUST BUT LIGHT: this shuttering system can be associated with plywood and steel front skin and it is very easy to handle, also without the use of crane. This simple product offers multiple solutions to customer needs, allowing to be extended in height and to use both sides during application.



ORF

FIELD OF APPLICATION

Longitudinal and transversal shuttering for all flat precast concrete elements with wall thicknesses from 100 mm/4" to 300 mm/12". This product is recommended for:

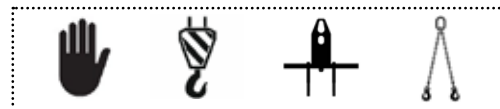
- Many variants of precast concrete elements
- Stationary production
- Manual shuttering handling



DETAILED SPECIFICATIONS

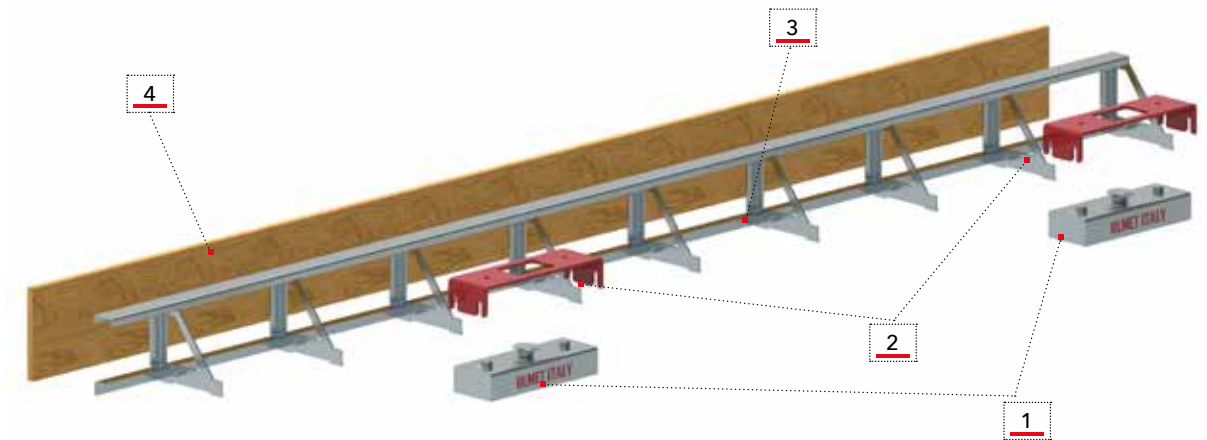
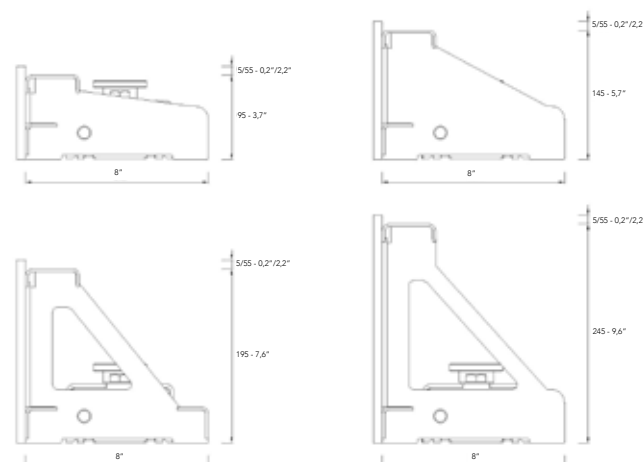
Handling

- Manually, crane, lifting beam, lifting chains
- Easy to position
- Easy attachment and removal of the shuttering skin



Dimensions

- Standard length 2990 mm/117,7" (special lengths available on request)
- Standard width 205 mm/8"
- Standard heights 95 mm/3,7", 145 mm/5,7", 195 mm/7,7", 245 mm/9,6" (special heights available on request)
- The plywood can protrude from 5 mm/0,1" up to max 55 mm/2,2" in height (see the scheme here below)
- The plywood can protrude up to max 125 mm/5" in length
- Total shuttering heights from 100 mm/4" to 300 mm/12"



ELEMENTS

1. OSM - standard magnetic box
2. ORF Clamping bracket
3. ORF base profile
4. Shuttering skin (provided by customer)

MAIN ADVANTAGE

- Steel or wood shuttering skin
- Excellent stability and shape retention - no bending
- Simple and quick installation
- Quick and easy fixing



ITEMS

→ ORF BASE PROFILE

Base profile for wood or steel skins



Model	R95B		R145B		R195B		R245B	
L	2990 mm	117,7"	2990 mm	117,7"	2990 mm	117,7"	2990 mm	117,7"
W	205 mm	8"	205 mm	8"	205 mm	8"	205 mm	8"
H	95 mm	3,7"	145 mm	5,7"	195 mm	7,7"	245 mm	9,6"
Shuttering H	100-150 mm	4"-6"	150-200 mm	6"-7,9"	200-250 mm	7,9"-9,9"	250-300 mm	9,9"-11,8"
Weight	14 kg	30,8 lb	16 kg	35,3 lb	18 kg	39,7 lb	20 kg	44 lb

→ ORF PAIR OF CLAMPING BRACKET FOR ORF BASE PROFILE

Clamping bracket for attachment to the magnetic box for fixing the ORF base profile



Model	R200	
Weight	2 kg	4,4 lb

→ ORF CONNECTION PLATES

For longitudinal joint of two ORF base profiles

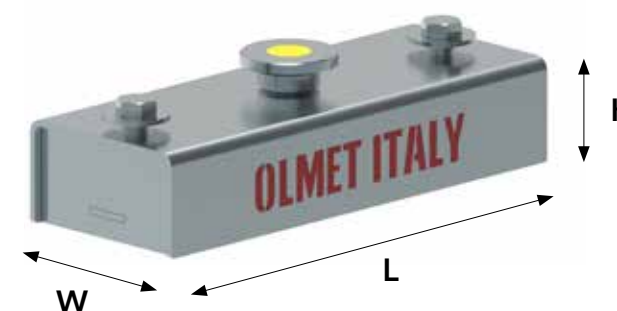


Model	R100CP	
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→ OSM - OLMET STANDARD MAGNETIC BOX

The standard Olmet magnet is suitable for any kind of shuttering profile



Model	OSM21	
L	320 mm	12,6"
W	120 mm	4,7"
H1 case	65 mm	2,5"
H2 button down	85 mm	3,3"
H3 button up	95 mm	3,7"
Retaining force	2100 kg	4629,7 lb
Weight	8.5 kg	18,7 lb

→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100	
Weight	10 kg	22 lb

→ STORAGERACK

For storage of magnets box with adapters



Model	MRS12		MRS18	
Rack spaces	12		18	
Weight	30 kg	66,1 lb	50 kg	110,2 lb

→ **LIFTING TOOLS**
Tools for easy handling of profiles

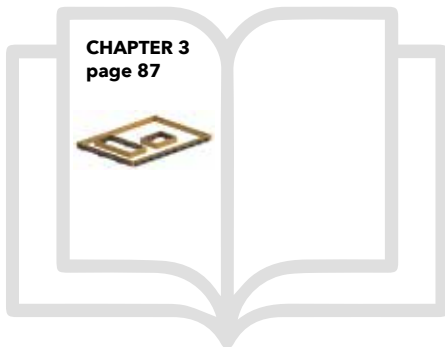


Model	LT200	
Weight	28 kg	61,7 lb



Model	LT300	
Weight	55 kg	121,2 lb

→ **RECESS ACCESSORIES**
Wide range of accessories for inserts, such as doors and windows, in chapter 3



ORF APPLICATION EXAMPLES



1.3 OMF

MULTIVAR FORM

CLASSIC AND VERSATILE:

Multivar shuttering system is suitable wherever it is necessary to frequently change the geometries, either manually or by crane.



OMF

FIELD OF APPLICATION

Longitudinal and transversal shuttering for all flat precast concrete elements with wall thicknesses from 100 mm/4" to 500 mm/19,7". This product is recommended for:

- Complex and /or frequently changing geometries
- Stationary production
- Manual shuttering handling
- Many variants of precast concrete elements
- Production of recesses like doors, windows, stairs, etc.



DETAILED SPECIFICATIONS

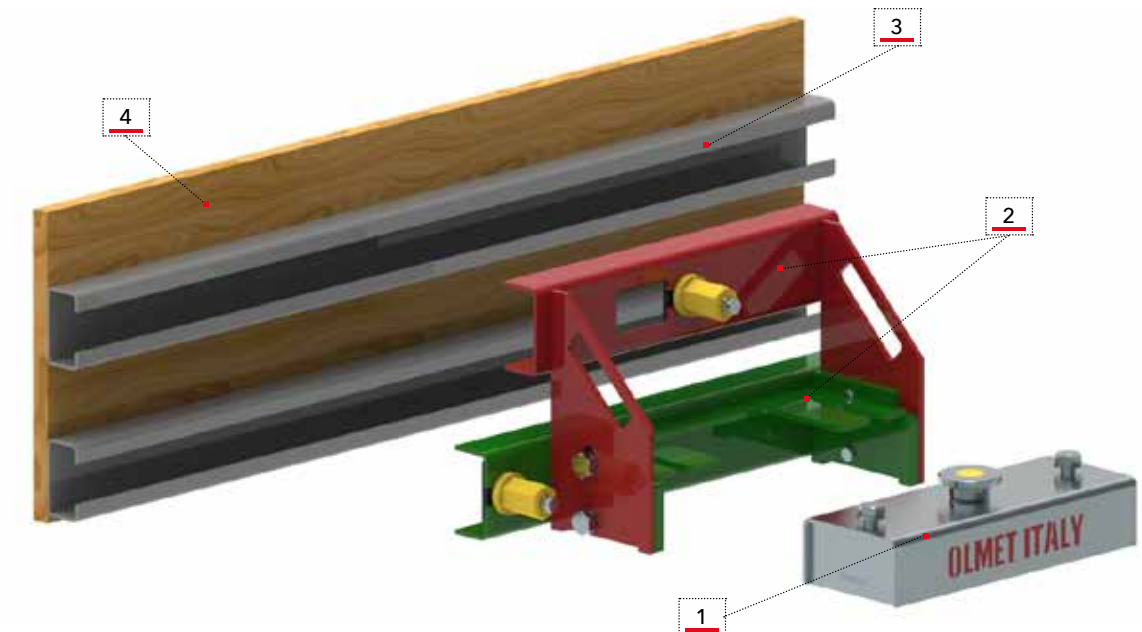
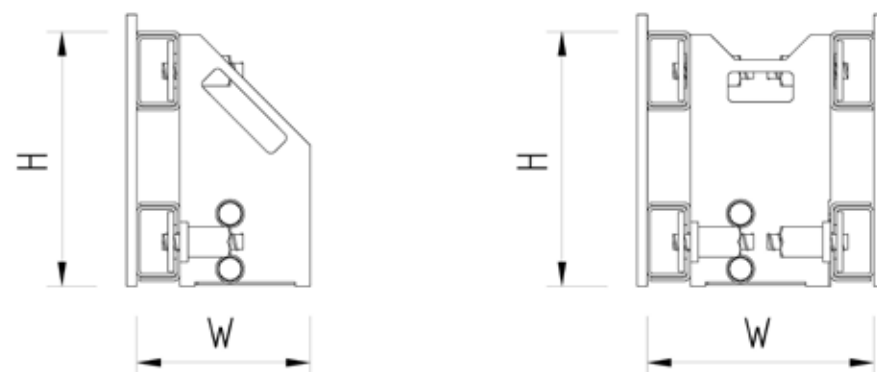
Handling

- Manually, crane, lifting beam
- Easy positioning by fixing and releasing at the push of a button
- Easy attachment and removal of the wood shuttering skin
- Easy assembly with C-profiles



Dimensions

- Standard C profile lengths: 250 mm/9,8", 1100 mm/43,3", 2000 mm/78,7", 3000 mm/118,1" (special lengths available on request)
- Standard widths 174 mm/6,8" - 250 mm/9,8"
- Standard heights 90 mm/3,5" - 170 mm/6,7" - 250 mm/9,8" - 330 mm/13" - 410 mm/16,1" (special heights available on request)
- The plywood can protrude from 5 mm/0,2" to max 80 mm/3,1" in height
- The plywood can protrude up to max 125 mm/5" in length
- Total shuttering heights from 100 mm/4" to 500 mm/19,6"



ELEMENTS

1. OSM - Olmet standard magnetic box
2. OMF adapters with screw connection
3. C-profile
4. Shuttering skin (provided by customer)

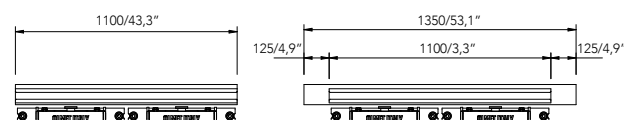
MAIN ADVANTAGES

- OMF adapter for fast stripping and encasing
- Wooden shuttering skin
- Excellent stability and shape retention - no bending
- Simple and quick installation
- Quick and easy fixing

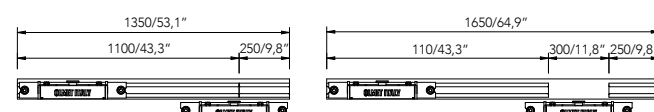


ELEMENTS

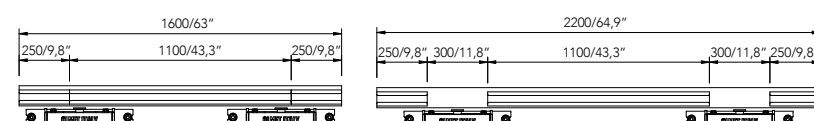
LENGTH FROM 1100 mm/1350 mm - 43,3"/53,1"



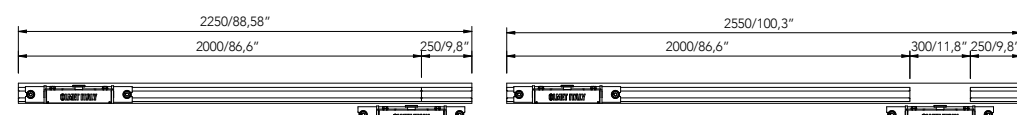
LENGTH FROM 1350 mm/1650 mm - 53,1"/64,9"



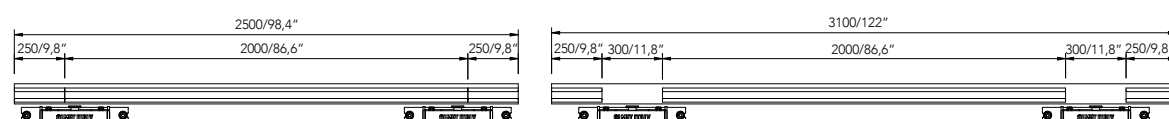
LENGTH FROM 1600 mm/2200 mm - 63"/86,6"



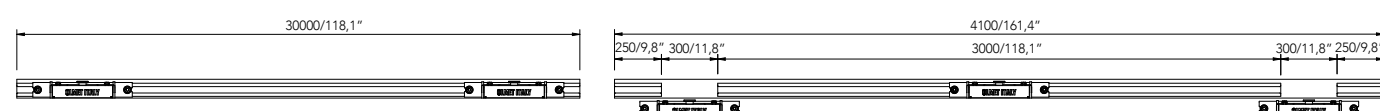
LENGTH FROM 2250 mm/2550 mm - 88,58"/100,3"



LENGTH FROM 2500 mm/3100 mm - 98,4"/122"

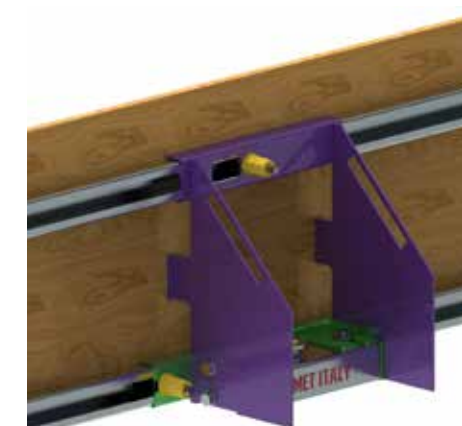


LENGTH FROM 3000 mm/3500 mm - 118,1"/137,80"



ITEMS

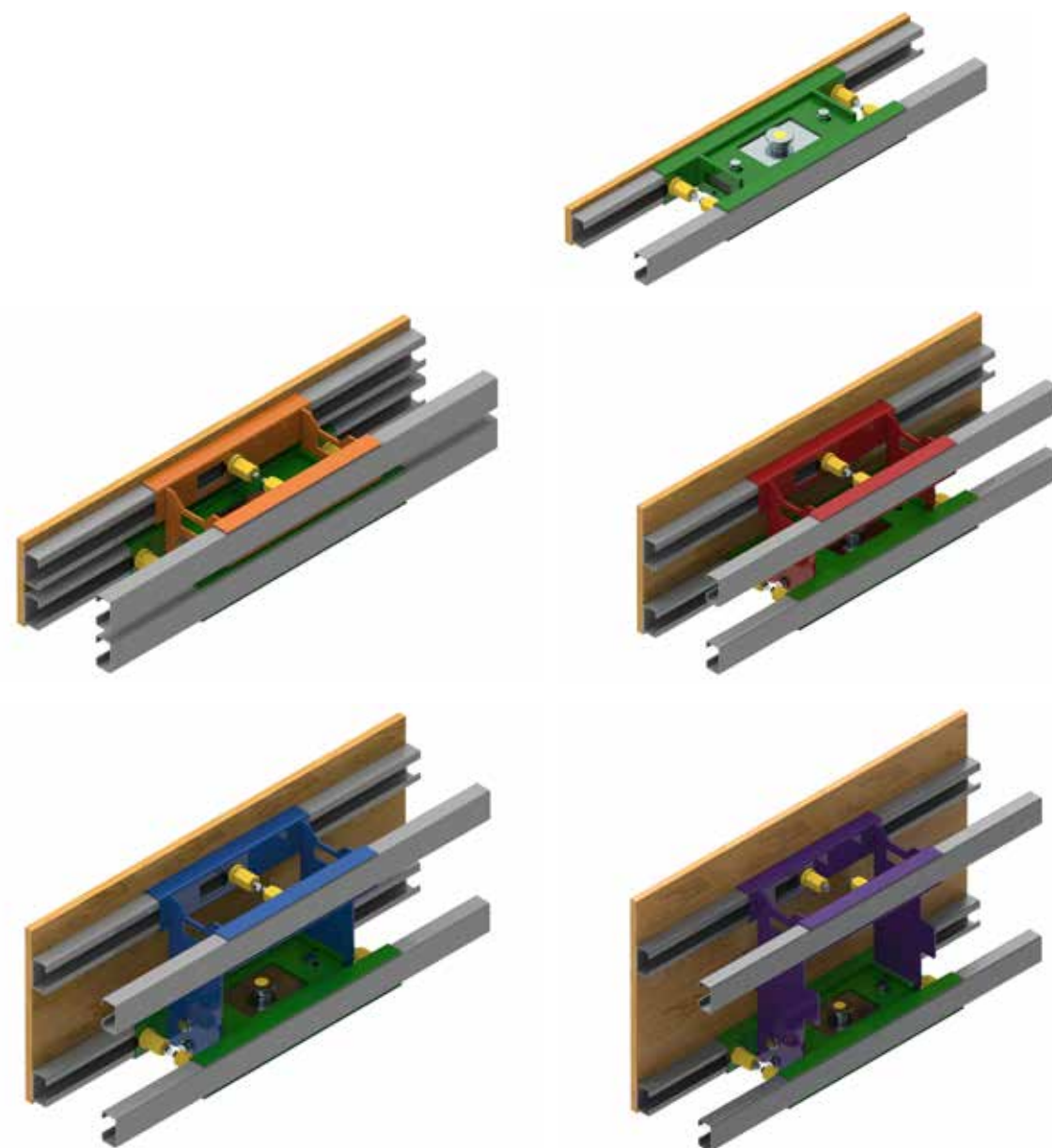
→ **OMF ADAPTER FOR SINGLE CASTING**
Upper part for magnetic box for fixing the C-profile



Model	M90A		M170A		M250A		M330A		M410A	
Height	90 mm	3,5"	170 mm	6,7"	250 mm	9,8"	330 mm	13"	410 mm	16,1"
Width	174 mm	6,8"	174 mm	6,8"	174 mm	6,8"	250 mm	9,8"	250 mm	9,8"
Shuttering skin height	100-170 mm	3,9"-6,7"	180-250 mm	7" - 9,8"	260-330 mm	10,2"-13"	340-410 mm	13,4"-16,1"	420-500 mm	16,5"-19,6"
Omega C-profiles	1		2		2		2		2	
Weight	5 kg	11 lb	8 kg	17,6 lb	9 kg	19,8 lb	11 kg	24,2 lb	14 kg	30,8 lb

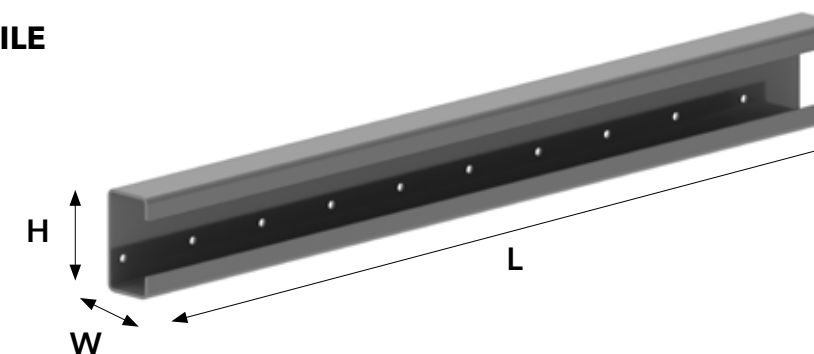
→ OMF ADAPTER FOR DOUBLE CASTING

Upper part for magnetic box for fixing the C-profile on both sides



Model	M90D ■		M170D ■		M250D ■		M330D ■		M410D ■	
Height	90 mm	3,5"	170 mm	6,7"	250 mm	9,8"	330 mm	13"	410 mm	16,1"
Width	174 mm	6,9"	174 mm	6,9"	174 mm	6,9"	250 mm	9,8"	250 mm	9,8"
Shuttering skin height	100-170 mm	4"-6,7"	180-250 mm	7"-9,8"	260-330 mm	10,2"-13"	340-410 mm	13,4"-16,1"	420-500 mm	16,5"-19,6"
Omega C-profiles	2		4		4		4		4	
Weight	8 kg	17,6 lb	12 kg	26,4 lb	13 kg	28,6 lb	14 kg	30,8 lb	15 kg	33 lb

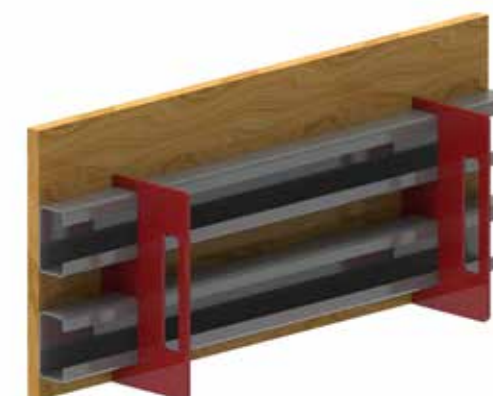
→ C-PROFILE



Model	M250B		M1100B		M2000B		M3000B	
L	250 mm	9,8"	1100 mm	43,3"	2000 mm	78,7"	3000 mm	118,1"
W	45 mm	1,8"	45 mm	1,8"	45 mm	1,8"	45 mm	1,8"
H	85 mm	3,3"	85 mm	3,3"	85 mm	3,3"	85 mm	3,3"
Weight	1 kg	2,2 lb	5 kg	11 lb	8 kg	17,6 lb	12 kg	26,4 lb

→ OMF POSITIONING AID FOR C-PROFILE

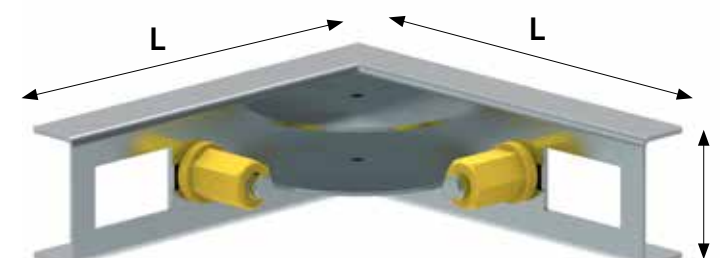
Attachment aid for exact positioning of the C-profile on the plywood.



Model	For OMF adapter
M1P	170
M2P	250
M3P	330
M4P	410

→ OMF CORNER BRACKET

For secure connection of the C-profiles when stripping recesses.



Model	M3CB	
L	300 mm	11,8"
H	95 mm	3,7"

→ OSM - OLMET STANDARD MAGNETIC BOX

The Olmet standard magnet is suitable for any kind of shuttering profile



Model	OSM21	
L	320 mm	12,6"
W	120 mm	4,7"
H1 case	65 mm	2,5
H2 button down	85 mm	3,4"
H3 button up	95 mm	3,7"
Retaining force	2100 kg	828 lb
Weight	8.5 kg	18,7 lb

→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100	
Weight	10 kg	22 lb

→ STORAGERACK

For storage of magnets box with adapters



Model	MRS12		MRS18	
Rack spaces	12		18	
Weight	30 kg	66,1 lb	50 kg	110,2 lb

→ LIFTING TOOLS

Tools for an easy profiles handling



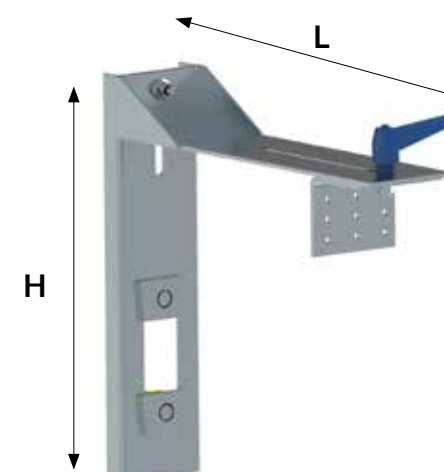
Model	LT200	
Weight	28 kg	61,7 lb



Model	LT300	
Weight	55 kg	121,2 lb

→ EXTENSION FOR OMF

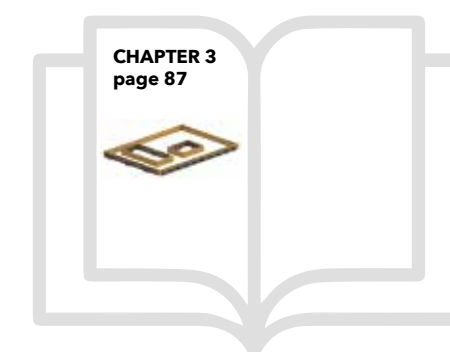
Fixed to the C-profile. It holds emp inserts casted in the element



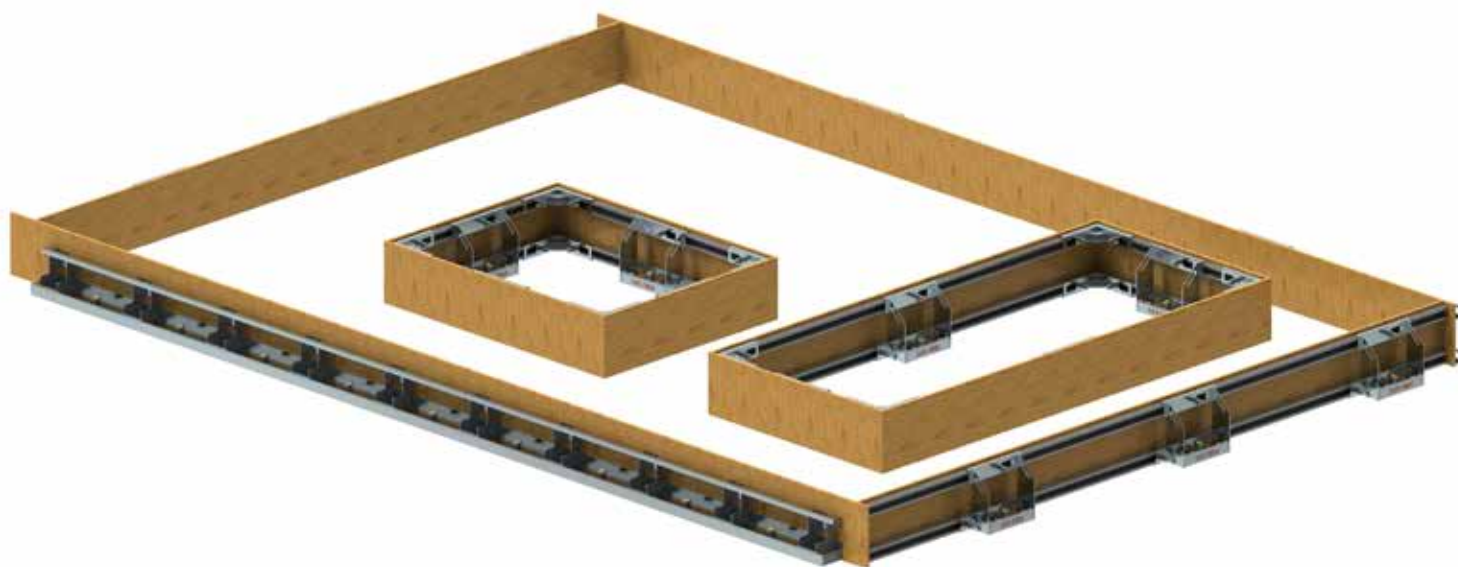
Model	M44E	
L	400 mm	15,7"
H	400 mm	15,7"
Weight	5 kg	11 lb

→ RECESS ACCESSORIES

Wide range of accessories for inserts, such as doors and windows, in chapter 3



OMF APPLICATION EXAMPLES



1.4 OSF

STRONG FORM

STABILITY AND RELIABILITY: this shuttering system is ideal for manufacturing solid and sandwich elements, while guaranteeing maximum strength of the structure during production.



OSF

FIELD OF APPLICATION

Longitudinal and transversal shuttering for all flat precast concrete elements, columns, beams, etc. with thicknesses from 100 mm/4" to 500 mm/19,6".

This product is recommended for:

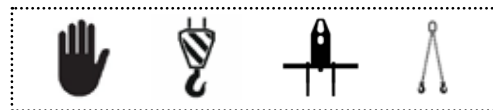
- Longitudinal shuttering
- Staircase formwork
- Stationary production
- Low level of automation
- Manual shuttering handling



DETAILED SPECIFICATIONS

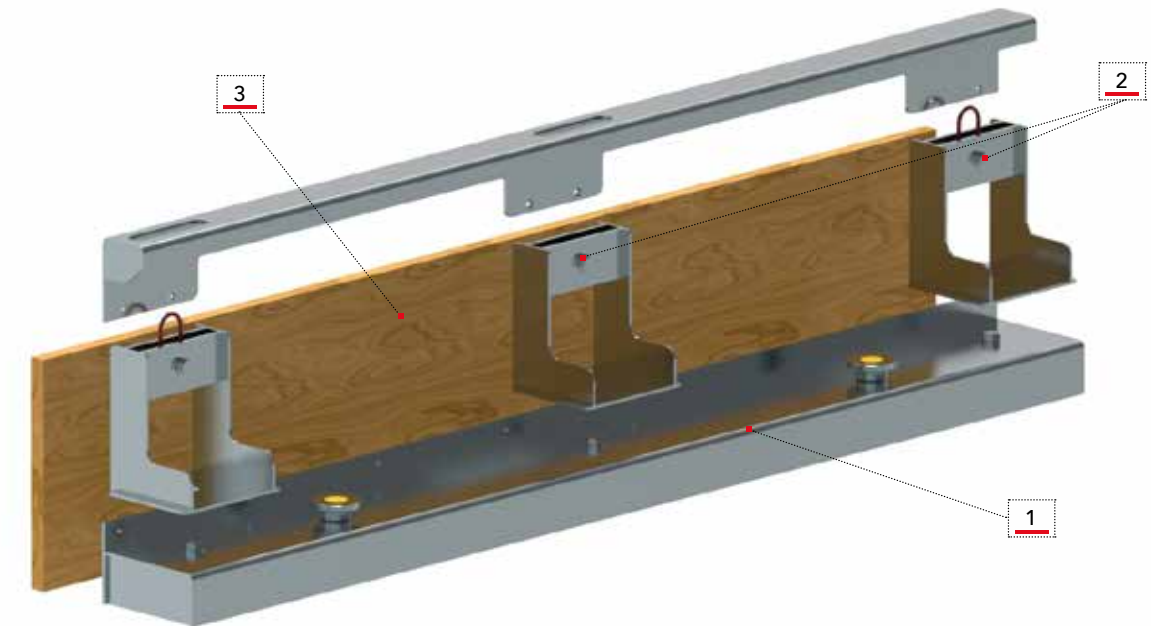
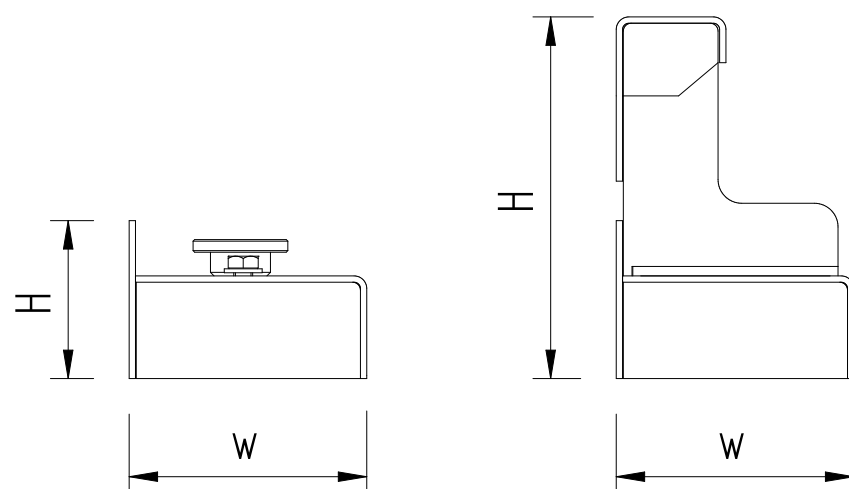
Handling

- Manually, crane, lifting beams, lifting chains



Dimensions

- Shuttering lengths: from 1500 mm/59" to 6000 mm/236,4"
- Base width: 160 mm/6,3"
- The plywood can protrude up to max 125 mm/5" in length
- The plywood can protrude up to max 70 mm/2,7" in height
- Shuttering heights: from 100 mm/4" to 500 mm/19,6"

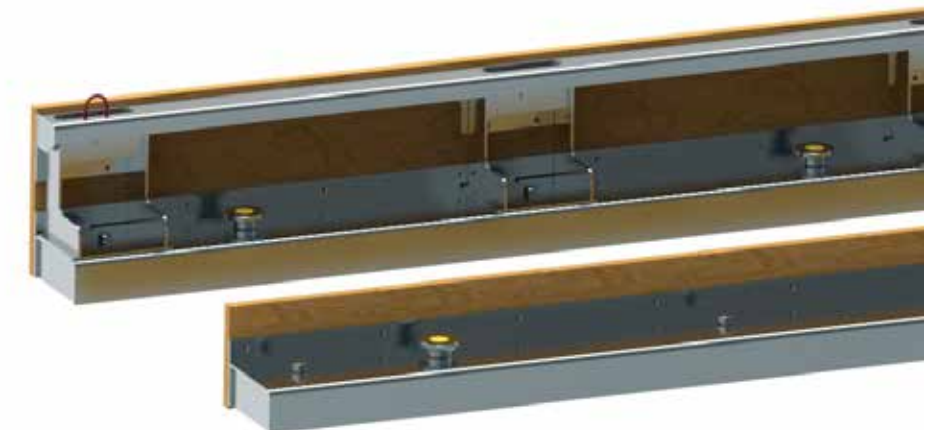


ELEMENTS

1. OSF BASE PROFILE with Integrated high-performance magnet
2. OSF height adapter
3. Shuttering skin (provided by customer)

MAIN ADVANTAGES

- Wooden shuttering skin
- Integrated, switchable magnets
- Extensible in height
- Easy removal and attachment of the shuttering skin



ITEMS

→ OSF BASE PROFILE

Base profile (upper part for height adapters included) with integrated high-performance magnets having a retaining force of 2100 kg/4629,7 lb each, suitable for shuttering skin up to 160 mm (the number of magnets depends on the length of the base profile)



Model	L		H		W		No. of adapters	Weight	
S15B	1500 mm	60"	95 mm	3,7"	160 mm	6,3"	3	28 kg	61,7 lb
S20B	2000 mm	78,7"	95 mm	3,7"	160 mm	6,3"	3	37 kg	81,6 lb
S25B	2500 mm	98,4"	95 mm	3,7"	160 mm	6,3"	4	46 kg	101,4 lb
S30B	3000 mm	118"	95 mm	3,7"	160 mm	6,3"	4	53 kg	116,8 lb
S35B	3500 mm	138"	95 mm	3,7"	160 mm	6,3"	5	65 kg	143,3 lb
S40B	4000 mm	157,5"	95 mm	3,7"	160 mm	6,3"	5	74 kg	163,1 lb
S45B	4500 mm	177"	95 mm	3,7"	160 mm	6,3"	5	83 kg	183 lb
S50B	5000 mm	197"	95 mm	3,7"	160 mm	6,3"	6	92 kg	202,8 lb
S55B	5500 mm	216,5"	95 mm	3,7"	160 mm	6,3"	6	101 kg	222,6 lb
S60B	6000 mm	236"	95 mm	3,7"	160 mm	6,3"	7	110 kg	242,5 lb

→ OSF HEIGHT ADAPTER

OSF adapter with or without lift off transport ring for easy handling by crane



Model	H		H shuttering skin		Transport ring	Weight	
Not required			100/160 mm	4"/6,3"			
S16A	160 mm	6,3"	170/230 mm	6,3"/9"	No	4 kg	8,8 lb
S16AR	160 mm	6,3"	170/230 mm	6,3"/9"	Yes	4 kg	8,8 lb
S23A	230 mm	9"	240/300 mm	9,4"/11,8"	No	5 kg	11 lb
S23AR	230 mm	9"	240/300 mm	9,4"/11,8"	Yes	5 kg	11 lb
S30A	300 mm	11,8"	310/370 mm	12,2"/14,5"	No	6 kg	13,2 lb
S30AR	300 mm	11,8"	310/370 mm	12,2"/14,5"	Yes	6 kg	13,2 lb
S37A	370 mm	14,5"	380/450 mm	14,9"/17,7"	No	8 kg	17,6 lb
S37AR	370 mm	14,5"	380/450 mm	14,9"/17,7"	Yes	8 kg	17,6 lb
S45A	450 mm	17,7"	460/500 mm	18,1"/19,6"	No	10 kg	22 lb
S45AR	450 mm	17,7"	460/500 mm	18,1"/19,6"	Yes	10 kg	22 lb

→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100	
Weight	10 kg	22 lb

→ LIFTING TOOLS

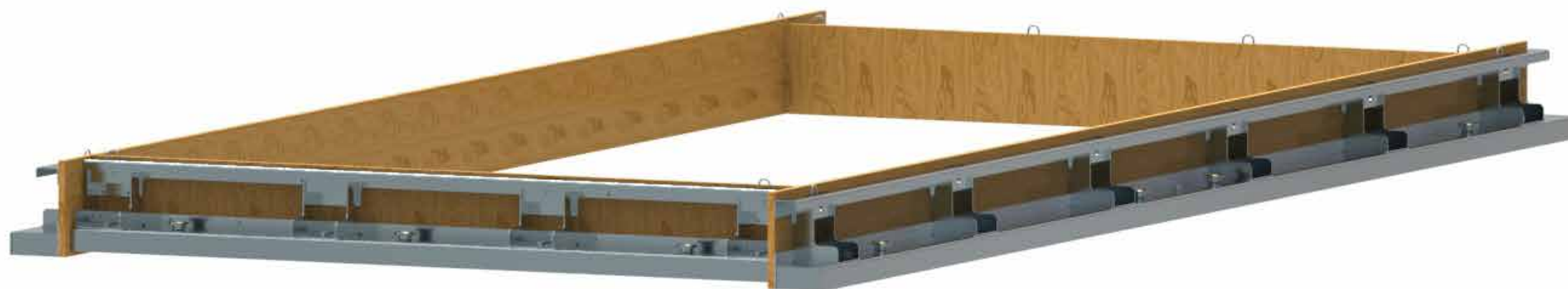
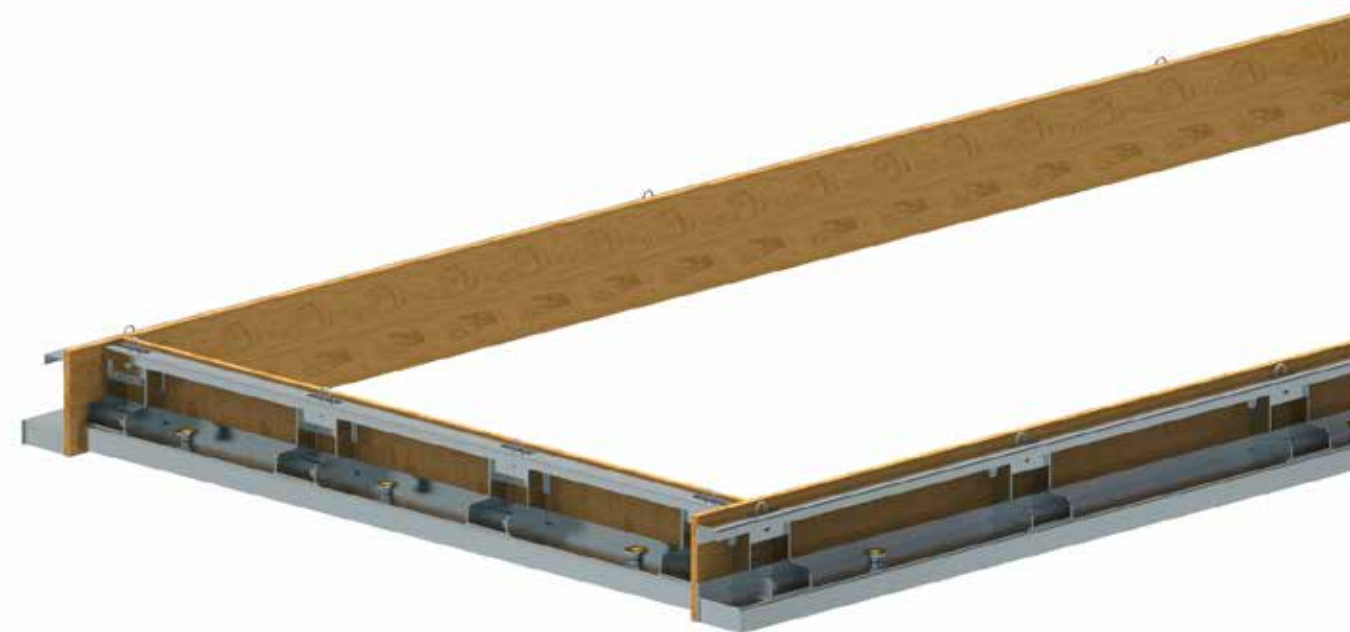
Tools for an easy handling of profiles



Model	LT200	
Weight	28 kg	61,7 lb

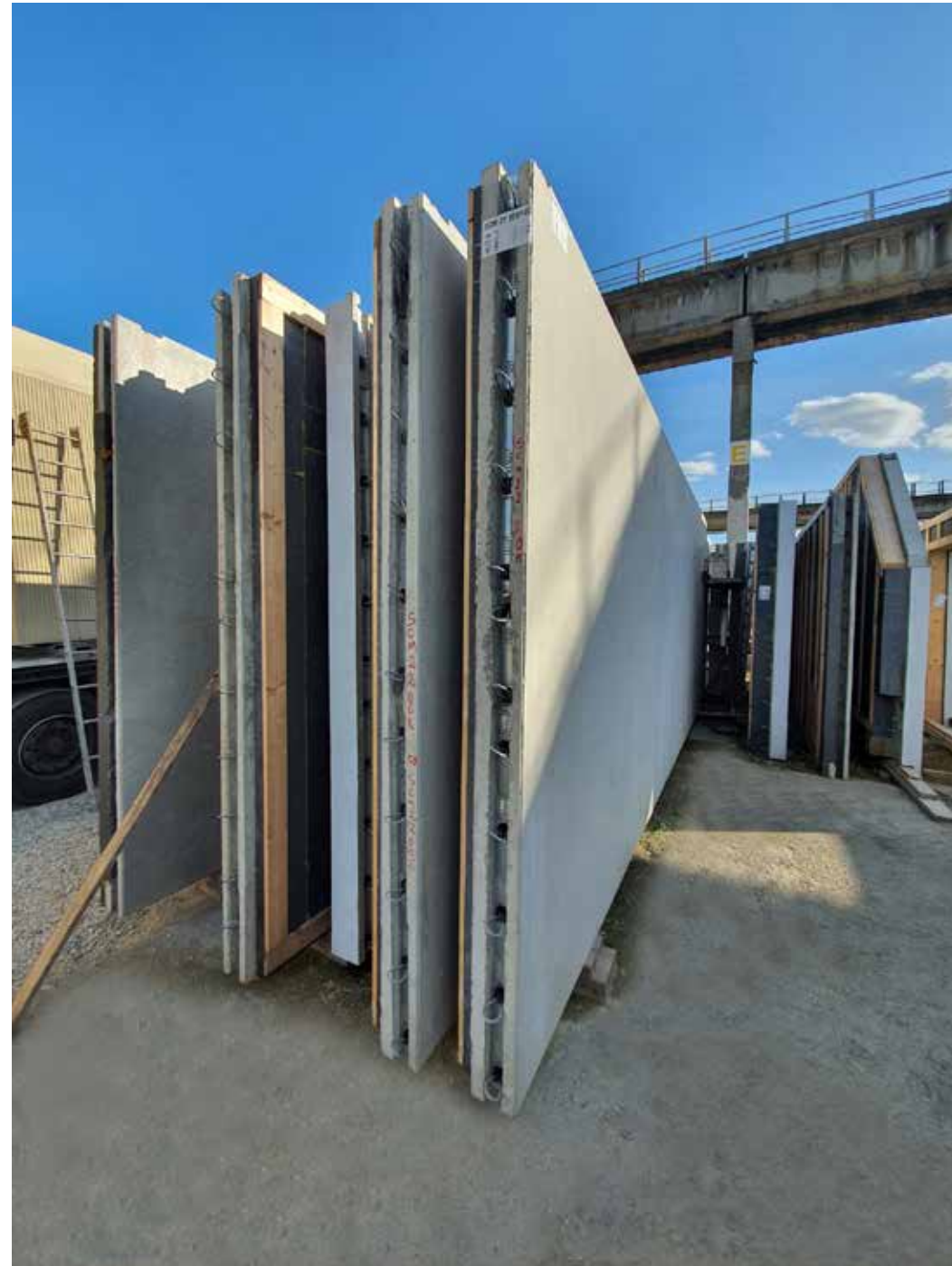
Model	LT300	
Weight	55 kg	121,2 lb

OSF APPLICATION EXAMPLES



1.5 OAF

AUTOMATIC FORM



AUTOMATIC AND CUSTOMIZED: this shuttering system is perfect complete integration with the client robot configuration and Olmet carousel plants. The operations of the positioning and activation / deactivation of the magnets are all automated.

OAF

FIELD OF APPLICATION

This can be used as a complete system for the production of solid elements with recesses as well as for Carousel systems, with and without shuttering robots.

This product is recommended for:

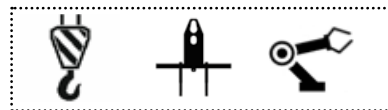
- Carousel plant
- Shuttering robots
- High level of automation



DETAILED SPECIFICATIONS

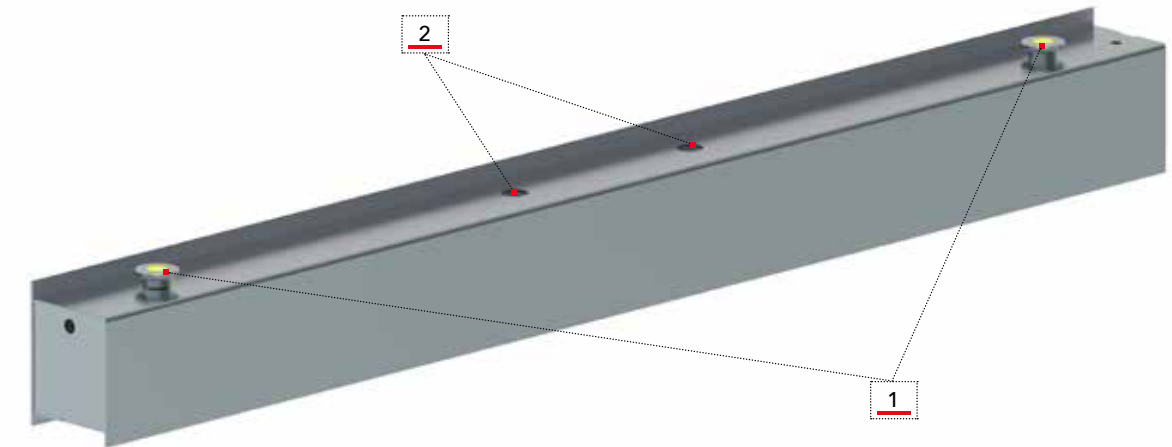
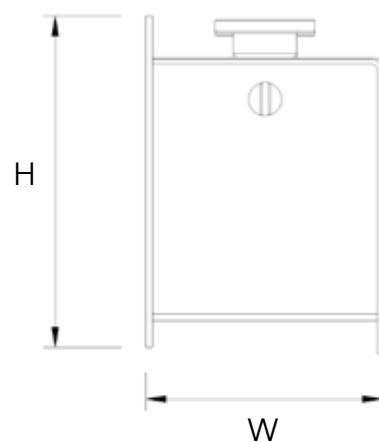
Handling

- Lifting beams, crane, robots



Dimensions

- Shuttering lengths from 500 mm/19,6" to 4000 mm/157,4"
- Shuttering heights from 80 mm/3,1" to 200 mm/7,9"
- OAF is realized according customer needs with customized dimensions



ELEMENTS

1. Integrated high-performance magnet
2. Various types of coupling connections according to customer needs

MAIN ADVANTAGES

- Double sided version
- Dimensions and shapes according to customer requirements
- Integrated, switchable magnets
- Extensible in height
- Suitable for robots
- Steel shuttering skin
- High precision laser-cut design
- Handling with lifting beam, crane and robot



ITEMS

→ OAF BASE PROFILE

- » One-sided version
- » Double-sided version

→ OAF FRONT PLATE

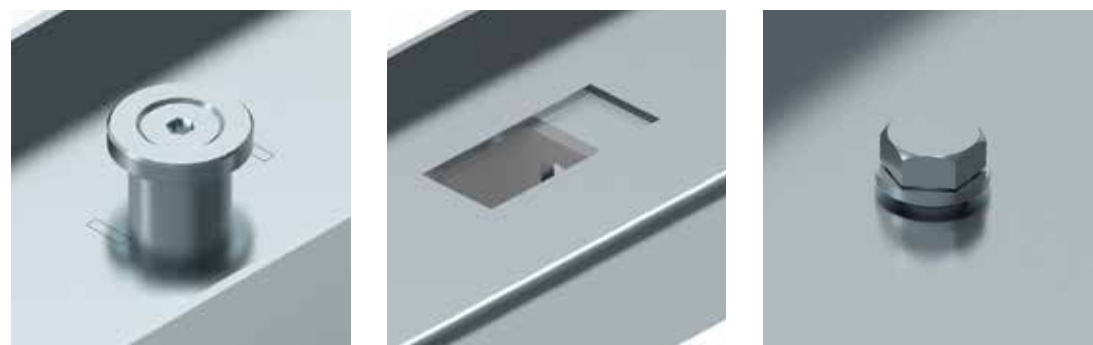
- » Smooth on one or both sides
- » Chamfer on top and/or bottom
- » Grouting groove and shear key
- » Slab support
- » Profile



Model	A1000
Dimension	ON REQUEST

→ OAF COVER PANEL

- » Transport receptacle, gripping knobs
- » Crane attachments
- » Screw connection



→ OAF ADAPTER PLATE TO MOUNT WOODEN FRONT



Model	AW150
-------	--------------

→ OAF UPPER PARTS

By using these items, customer can easily increase the height of the profile



Model	AE600
Dimension	ON REQUEST

→ OAF COVER SHEET

For covering the shuttering at concreting stage



Model	AC500
Dimension	ON REQUEST

→ **OAF CORNER MAGNET**
 Corner magnet for recesses, including automatic magnet



Model	CM150
Dimension	ON REQUEST

→ **MAGNETIC HOLDER FOR CABLE LOOPS**



Model	MH100
Dimension	ON REQUEST

→ **LIFTING BEAM**
 Tool to easy lift the profiles equipped with the lifting knobs model LK1



Model	LT200
Weight	55 kg 121,2 lb

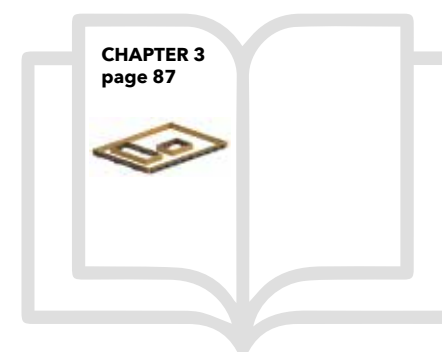


→ **OSM RELEASING TOOL**
 Tool to easy switch off the push button of the magnet

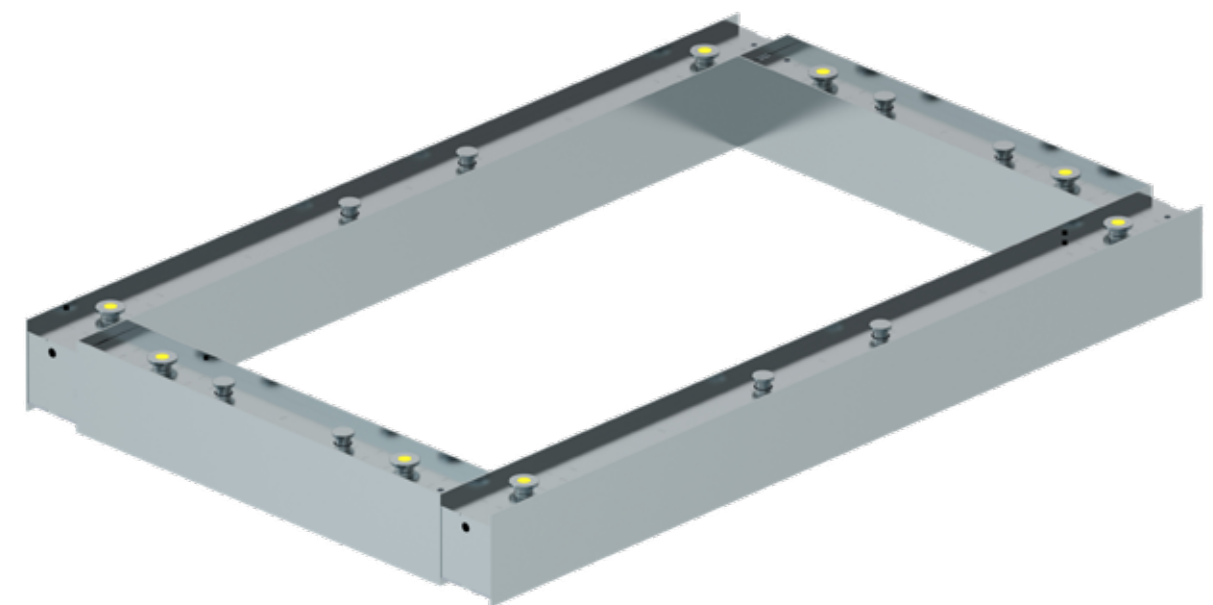
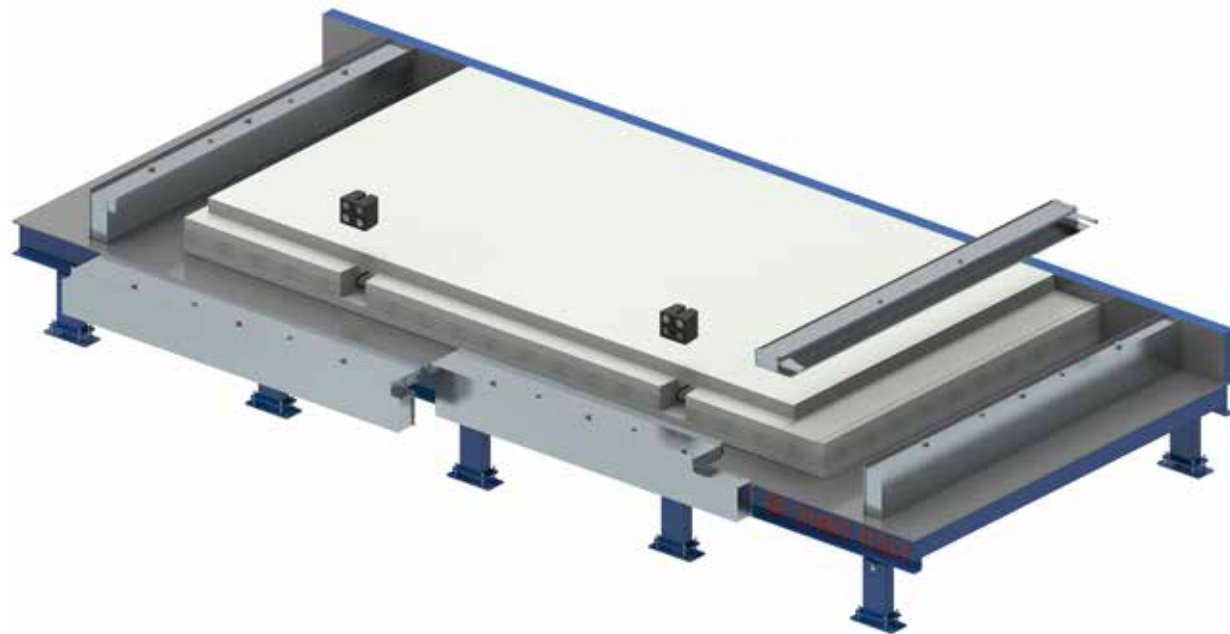


Model	RT100
Weight	10 kg 22 lb

→ **RECESS ACCESSORIES**
 Wide range of accessories for inserts, such as doors and windows, in chapter 3



OAF APPLICATION EXAMPLES



1.6 OCF

CHANGEABLE FORM

**EASY CHANGEABLE
AND EXTENDABLE:** OCF
is optimized for a quick
change of shuttering
skin and is suitable for
many different types
of shuttering skin and
geometries. With its
integrated magnet base,
it is possible to implement
various heights and
shuttering geometries by
only changing the front
plate.



OCF

FIELD OF APPLICATION

Longitudinal and transversal shuttering for all flat precast concrete elements with heights from 100 mm/4" - 500 mm/19,6".

This product is recommended for:

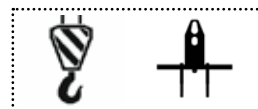
- Frequently changing
- Complex shuttering skin geometries
- Protruding reinforcement
- The production of bar, solid and sandwich elements



DETAILED SPECIFICATIONS

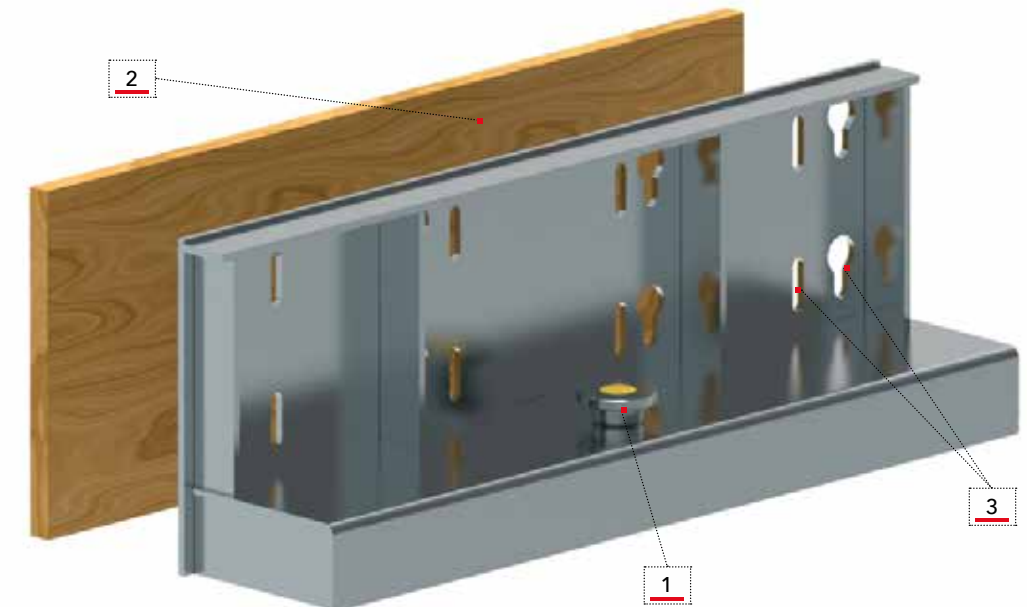
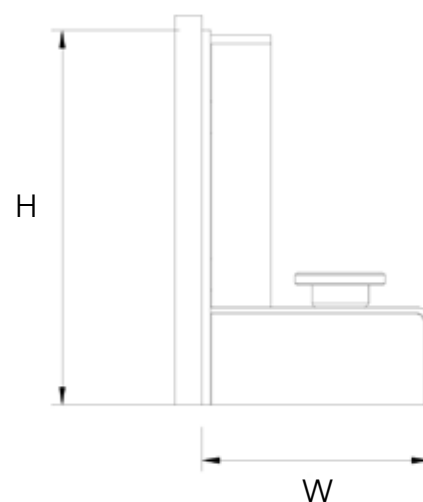
Handling

- Crane, lifting beam



Dimensions

- Shuttering lengths: 500 mm/19,6" - 4000 mm/157,5"
- Width of the shuttering base: 100 mm/4" - 200 mm/7,9"
- Shuttering heights: 100 mm/4" - 500 mm/19,6"
- OCF is realized according customer needs with customized dimensions

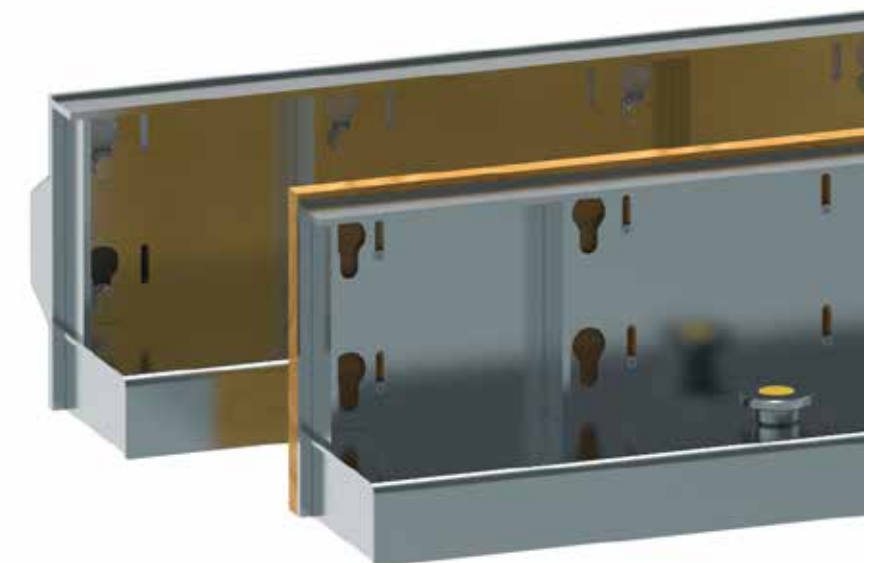


ELEMENTS

1. OCF Base
2. Shuttering skin (provided by customer)
3. Wood or steel skin connection holes

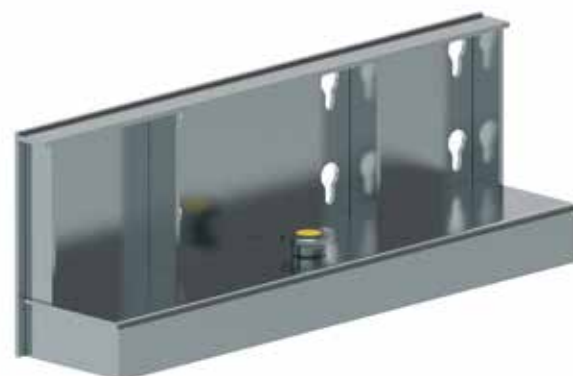
MAIN ADVANTAGES

- Profilable according to customer requirements
- Integrated, switchable magnets
- Extensible in height
- Steel or wood shuttering skin
- Flexible modular design through true use of extension modules



ITEMS

→ OCF SHUTTERING BASE



Model	C1000
L	500-4000 mm ON REQUEST
	19,6"-157" ON REQUEST
W base	100-200 mm ON REQUEST
	4"-7,9" ON REQUEST
H	100-500 mm ON REQUEST
	4"-19,6" ON REQUEST

→ EXTENSION STEEL MODULES FOR OCF SHUTTERING BASE

Examples of steel front. Steel extension modules can be manufactured according the customer's needs and are suspended on the keyholes



Model	CS1000
Dimension	ON REQUEST



→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100
Weight	10 kg 22 lb

→ LIFTING TOOLS

Tools for an easy handling of profiles

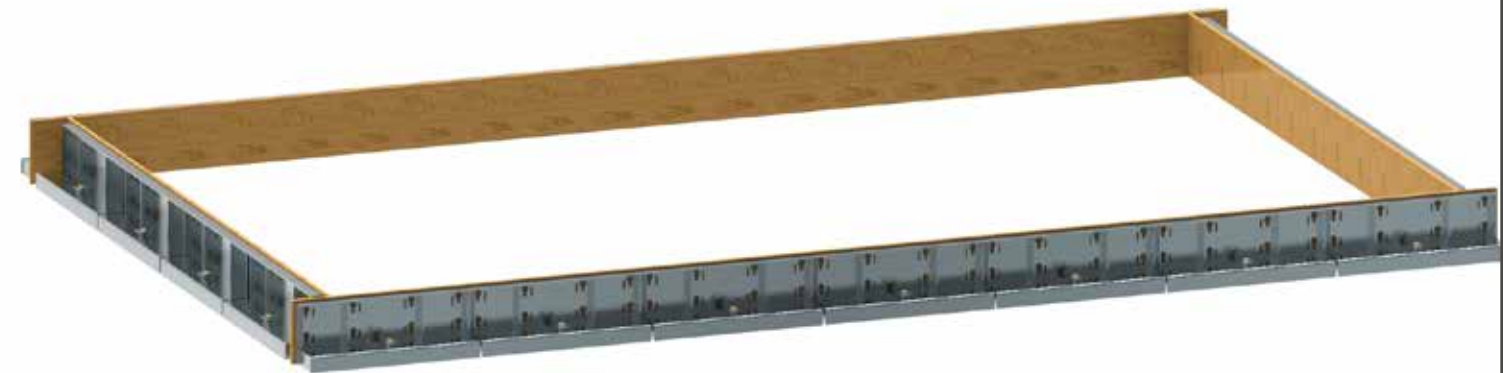
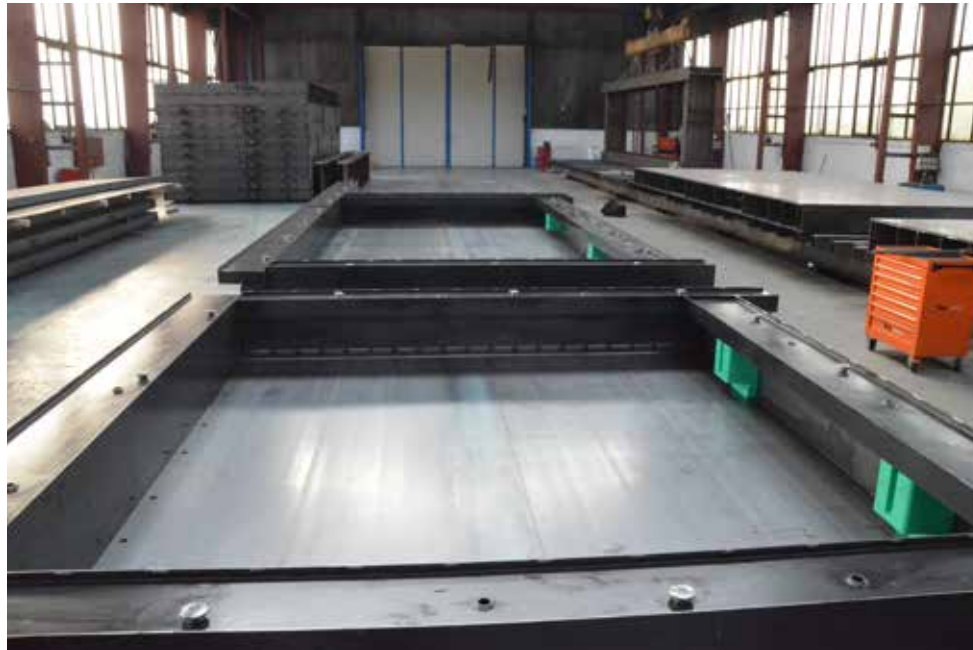


Model	LT200
Weight	28 kg 61,7 lb



Model	LT300
Weight	55 kg 121,2 lb

OCF APPLICATION EXAMPLES



1.7 OGF

GIRDER FORM

RELIABLE AND DURABLE:

OGF is the shuttering system with built-in magnet optimized for the production of girder slabs and double walls. Customer can customize it with desired shape: without chamfer, one-sided chamfer or double-sided chamfer.



OGF

FIELD OF APPLICATION

Turnkey system for the production of girder slabs and double walls with element heights of 50 mm/1,9" - 100 mm/4".

This product is recommended for:

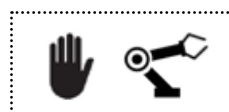
- Circulation systems
- Shuttering robots
- High degree of automation
- High quality requirements on chamfering precision



DETAILED SPECIFICATIONS

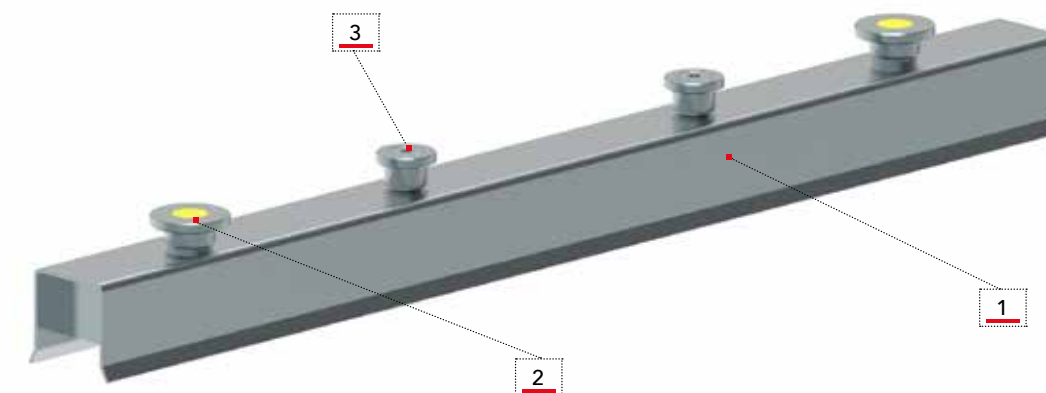
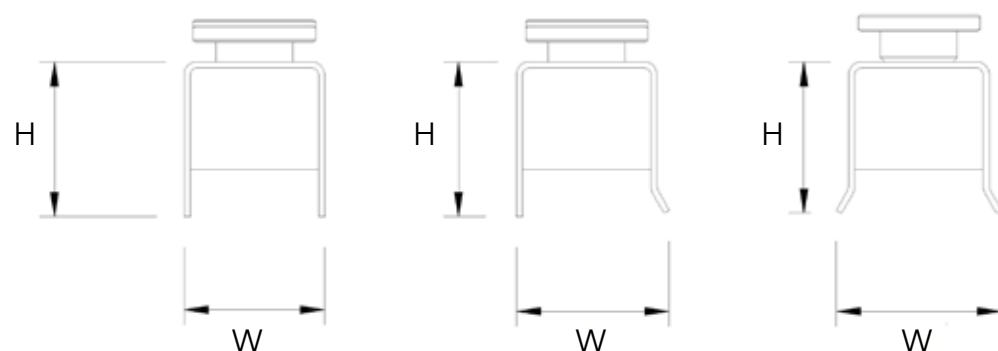
Handling

- Manually and robots



Dimensions

- Shuttering lengths: 500 mm/19,6" - 4000 mm/157,5"
- Height: 50 mm/1,9" - 100 mm/4"
- OGF is realized according customer needs with customized dimensions



ELEMENTS

1. Integrated magnet
2. Integrated steel skin
3. Robot coupling connections

MAIN ADVANTAGES

- Integrated, switchable magnets
- Double-sided version
- Steel shuttering skin
- Slip-on profile for extending the shuttering height
- Easy positioning
- Easy removal and attachment of the shuttering
- Compatible with robots by any manufacturer
- Suitable for manufacturing girder slabs and double walls



ITEMS

- **SLIP-ON PROFILES**
Profile cover to extend the shuttering height



Model	SP1000
Dimension	ON REQUEST

- **MAGNET CLIP**
Tools to fix the profile on angular position



Model	CMC100
Dimension	ON REQUEST

- **OSM RELEASING TOOL**
Tool to easy switch off the push button of the magnet



Model	RT100
Weight	10 kg 22 lb

OGF APPLICATION EXAMPLES

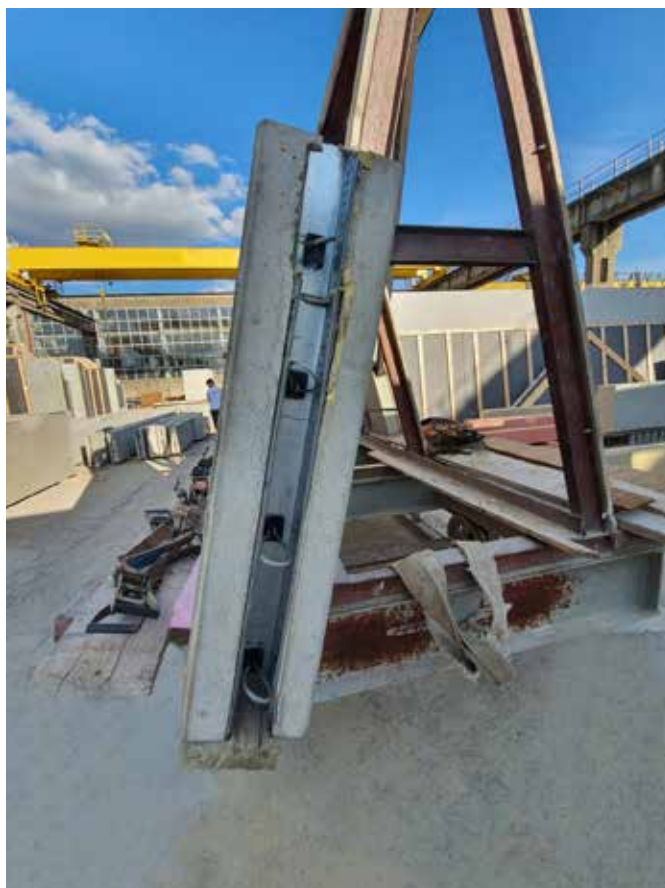


1.8 OTF

TT FORM

FAST AND EFFICIENT:

OTF is the shuttering system with built-in magnet optimized for the production of TT slab elements, easy to position without using the crane.



OTF

FIELD OF APPLICATION

Production of TT slab elements.
This product is recommended for:

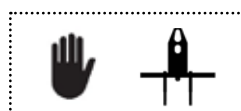
- Stationary production
- Low level of automation
- Manual shuttering handling



DETAILED SPECIFICATIONS

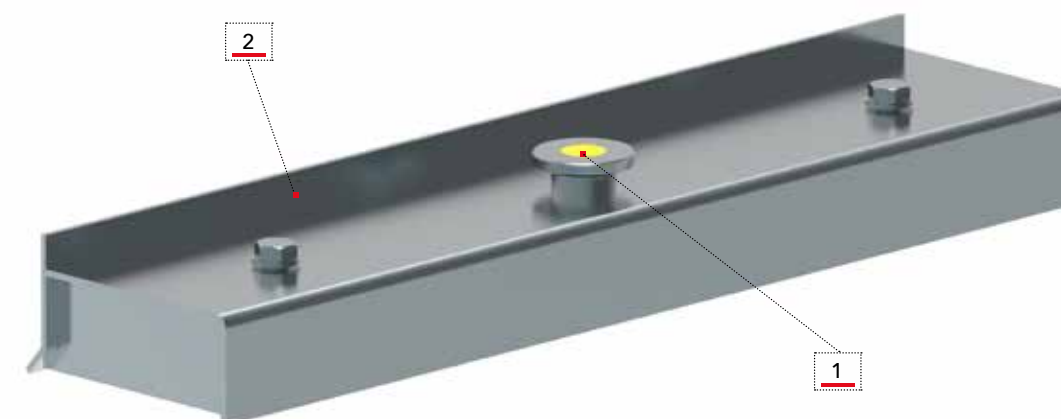
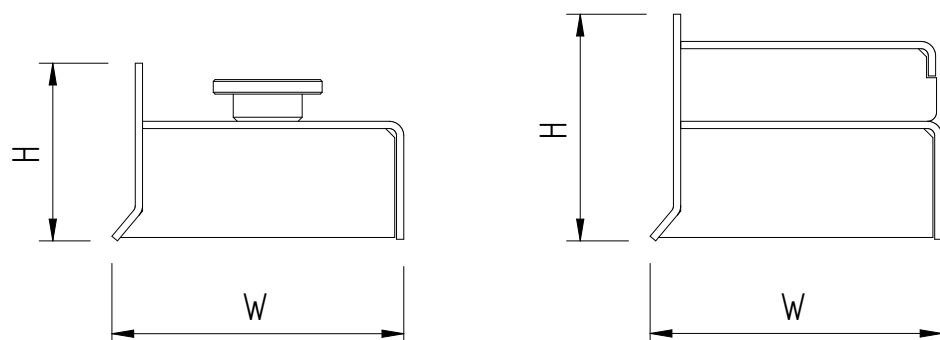
Handling

- Manual and lifting beam



Dimensions

- Standard length 500 mm/19,6" - 4000 mm/157,5"
- Standard width 60 mm/2,3" - 200 mm/7,9"
- Standard height 40 mm/1,6" - 130 mm/5,1"
- OTF is realized according customer needs with customized dimensions



ELEMENTS

1. Integrated magnet
2. Integrated steel skin

MAIN ADVANTAGES

- Integrated, switchable magnets
- Steel shuttering skin
- Extensible in height
- Integrated high-performance magnet
- Low intrinsic weight for easy handling of the shuttering
- This profile can be customised in terms of lengths, heights and shape



ITEMS

→ OTF SHUTTERING BASE



Model	TT1000	
L	From 500 to 4000 mm ON REQUEST	From 19,6" to 157" ON REQUEST
W	From 60 to 200 mm ON REQUEST	From 2,3" to 7,9" ON REQUEST
H	From 40 to 130 mm ON REQUEST	From 1,6" to 5,1" ON REQUEST

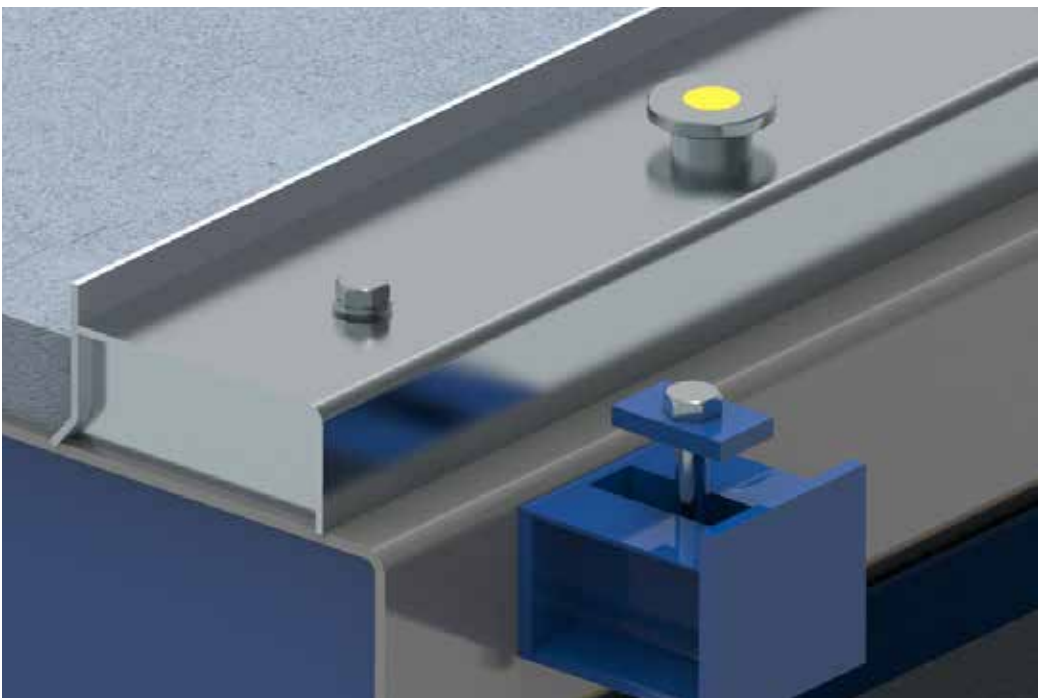
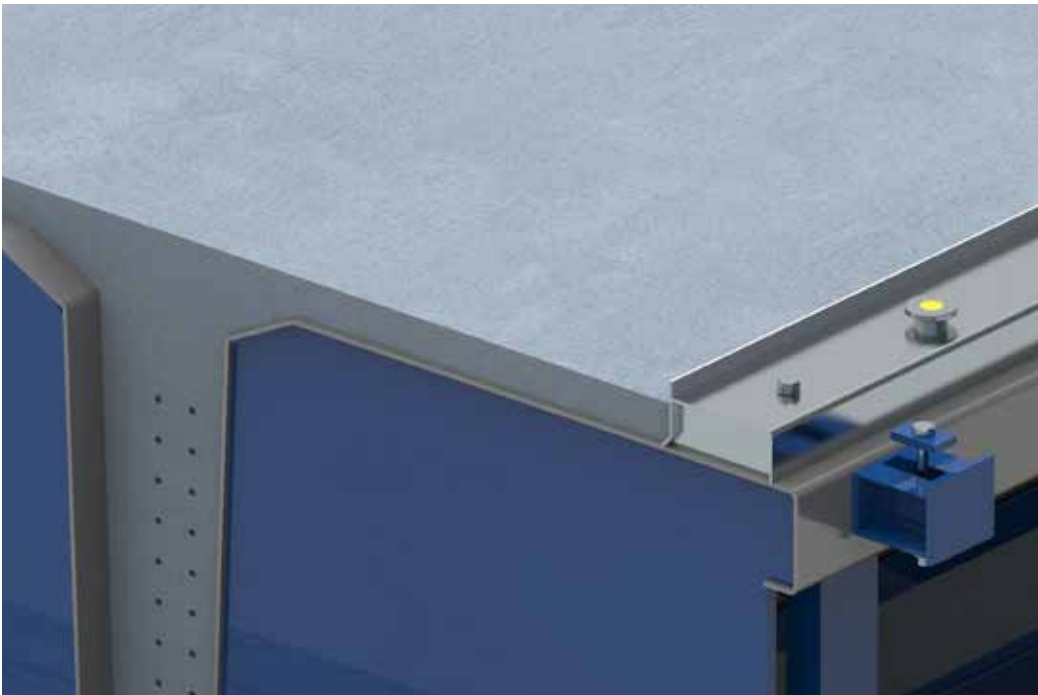
→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100	
Weight	10 kg	22 lb

OTF APPLICATION EXAMPLES



2

FORMWORKS SHUTTERING MAGNETS



OSM - OLMET STANDARD MAGNETIC BOX



→ OSM - OLMET STANDARD MAGNETIC BOX

The OSM is the basis for all applications in shuttering profiles. The OSM consists of an integrated automatic magnet system with a retaining power of 1000 kg/2204 lb - 2100 kg/4629,7 lb and easy screw connection for adapters.



Model	OSM10		OSM21	
L	320 mm	12,6"	320 mm	12,6"
W	80 mm	3,1"	120 mm	4,7"
H1 case	65 mm	2,5"	65 mm	2,5"
H2 button down	85 mm	3,3"	85 mm	3,3"
H3 button up	95 mm	3,7"	95 mm	3,7"
Retaining force	1000 kg	2204 lb	2100 kg	4629,7"
Weight	6.0 kg	13,2 lb	8.5 kg	18,7"

→ OSM ANGLE ADAPTER H=95mm

Shuttering skin support to fix the plywood on the long side of the magnet



Model	AA95M	
For	OSM21	
L	320 mm	12,6"
W	160 mm	6,3"
H	95 mm	3,7"
Shuttering skin height	100-200 mm	4"-7,9"
Weight	3 kg	6,6 lb

With the OLMET ITALY OSM magnetic box, to suit any requirement. In fact, thanks to the easy screw connection, the magnetic boxes can be coupled with any type of accessories. The highest quality of magnets guarantees extraordinary durability and reliability over the time.

The formwork shuttering system plays an essential role in the production of concrete elements. Its adaptability, reliability and longevity are pivotal to an efficient production. The OSM magnetic system mostly consists of an external steel box, a built-in permanent magnet and an integrated push-button for activation and deactivation, to ensure the best standards of adhesiveness to the casting surface and safety of use.

The OSM system provides the basics for a fast and rational formwork system, to manufacture high-quality precast wall panels and other precast elements while preventing excessive tear and wear of the casting surfaces.

Therefore, the OSM system is the basic device for assembling shutters or casting separators made of steel, wood and aluminium. By using different accessories, it is possible to fix any kind of small, medium or large size insert in an extremely safe way.

The OSM system offers many applications: it has been systematically used for years by pre-casting companies with excellent results.

→ OSM ANGLE ADAPTER H=150mm

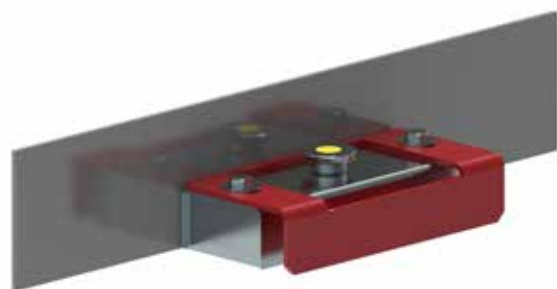
Shuttering skin support to fix the plywood on the long side of the magnet



Model	AA150M	
For	OSM21	
L	320 mm	12,6"
W	160 mm	6,3"
H	150 mm	5,9"
Shuttering skin height	160-250 mm	6,3"-9,8"
Weight	4.5 kg	9,9 lb

→ OSM ANGLE ADAPTER FOR STEEL SKIN

Shuttering skin support on the long side of the magnet, to be welded to the steel skin



Model	AA320S	
For	OSM21	
L	320 mm	12,6"
W	160 mm	6,3"
H	65 mm	2,5"
Weight	3 kg	6,6 lb

→ OSM FRAMES PRESSING DEVICE

To fix windows frames, doors frames, U profiles, etc.



Model	AA320P	
For	OSM21	
L	320 mm	12,6"
W	120 mm	4,7"
H	100 mm	4"
Weight	2 kg	4,4 lb

→ OSM 2-SIDES ADAPTER

Shuttering skin support to fix the plywood on the long side and one short side of the magnet



Model	A16S2	A23S2	A30S2	A37S2
L	320 mm 12,6"	320 mm 12,6"	320 mm 12,6"	320 mm 12,6"
W	120 mm 4,7"	120 mm 4,7"	120 mm 4,7"	120 mm 4,7"
H	90 mm 3,5"	160 mm 6,3"	230 mm 9"	300 mm 11,8"
Shuttering skin height	100-160 mm 4"-6,3"	170-230 mm 6,7"-9"	240-300 mm 9,4"-11,8"	310-370 mm 12,2"-14,5"
Weight	3 kg 6,6 lb	3 kg 6,6 lb	3 kg 6,6 lb	3 kg 6,6 lb

→ OSM 3-SIDES ADAPTER

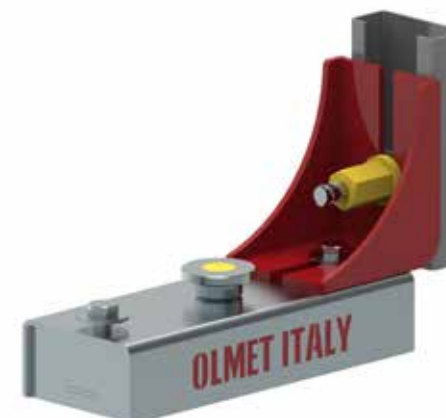
Shuttering skin support to fix the plywood on the long side and one short side of the magnet



Model	A16S3	A23S3	A30S3	A37S3
L	320 mm 12,6"	320 mm 12,6"	320 mm 12,6"	320 mm 12,6"
W	120 mm 4,7"	120 mm 4,7"	120 mm 4,7"	120 mm 4,7"
H	90 mm 3,5"	160 mm 6,3"	230 mm 9"	300 mm 11,8"
Shuttering skin height	100-160 mm 4"-6,3"	170-230 mm 6,7"-9"	240-300 mm 9,4"-11,8"	310-370 mm 12,2"-14,5"
Weight	3.5 kg 7,7 lb	3.5 kg 7,7 lb	3.5 kg 7,7 lb	3.5 kg 7,7 lb

→ OSM ADAPTERS FOR WAVY ELEMENTS

Radius shuttering



Model	A22WR	
For	OSM21	
L	140 mm	5,5"
W	120 mm	4,7"
H shuttering skin	160-220 mm	6,3"-8,6"
Weight	3 kg	6,6 lb

→ WOOD TENSIONER WITH CLAMPING ADAPTER

To hold down all types of wood shuttering profiles



Model	A365WT	
Hold-down rod	365 mm	14,4"
Wood tensioner	180 mm	7"
Weight	1 kg	2,2 lb

→ STORAGERACK

For storage of magnets box with adapters



Model	MRS12		MRS18	
Rack spaces	12		18	
Weight	30 kg	66,1 lb	50 kg	110,2 lb

→ OSM RELEASING TOOL

Tool to easy switch off the push button of the magnet



Model	RT100	
Weight	10 kg	22 lb

GUIDE TABLE - SHUTTERING LENGTH / NUMBER OF MAGNETS

Height 4"-5,9"

Length	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm	3500	4000 mm
	39,3"	59"	78,7"	98,4"	118,1"	137,8"	157,4"
OSM21	2	2	2	2	2	3	3
OSM10	3	3	3	3	3	5	5

Height 5,9"-7,9"

Length	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm	3500	4000 mm
	39,3"	59"	78,7"	98,4"	118,1"	137,8"	157,4"
OSM21	2	2	2	2	2	3	3
OSM10	3	4	4	4	4	5	6

Height 7,9"-9,8"

Length	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm	3500	4000 mm
	39,3"	59"	78,7"	98,4"	118,1"	137,8"	157,4"
OSM21	2	2	2	2	2	3	3
OSM10	3	3	4	4	5	6	6

Height 9,8"-11,8"

Length	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm	3500	4000 mm
	39,3"	59"	78,7"	98,4"	118,1"	137,8"	157,4"
OSM21	2	2	2	3	3	3	4
OSM10	3	3	4	5	6	7	8

Height 11,8"-13,7"

Length	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm	3500	4000 mm
	39,3"	59"	78,7"	98,4"	118,1"	137,8"	157,4"
OSM21	2	2	3	3	4	4	5
OSM10	3	4	5	6	7	8	9

Height 13,7"-15,7"

Length	1000 mm	1500 mm	2000 mm	2500 mm	3000 mm	3500	4000 mm
	39,3"	59"	78,7"	98,4"	118,1"	137,8"	157,4"
OSM21	2	2	3	3	4	5	6
OSM10	4	5	6	7	8	9	10

» This table is only a suggestion, deriving from Olmet's experience thanks to the feedbacks of its customers around the world

3

RECESS ACCESSORIES



→ BOOM EXTENSION FOR OSM

To fix a shuttering skin up to 400 mm in height. Adaptable to any material.



Model	SSMB400	
L	350 mm	13,7"
W	100 mm	3,9"
H	400 mm	15,7"
Clamping range	0-30 mm	0"-1,1"
Weight	3 kg	6,6 lb

→ CLAMP LEVER FOR BOOM EXTENSION

For elements with a thickness of 30-80 mm.



Model	CL38
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→ INWARDS EXTENSION FOR CLAMP LEVER

The extension is used to facilitate the positioning of insert parts, among other things.



Model	ECL300		ECL400	
L	300 mm	11,8"	400 mm	15,7"

→ INWARDS HEAD FOR BOOM EXTENSION

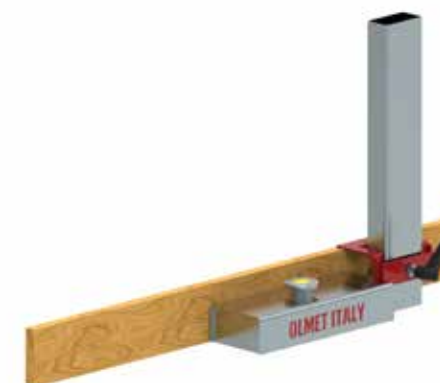
For easy positioning of insert parts



Model	SEA100	
L	300 mm	11,8"

→ HOLDING DOWN ADAPTER FOR BOOM EXTENSION

To hold down the shuttering skins.



Model	HDA100
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→ OFF RAISED FLOOR ADAPTER

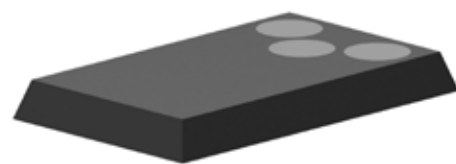
The adapter is integrated with the Olnet standard magnet system. It is suitable for upstands and adjustable in height and length



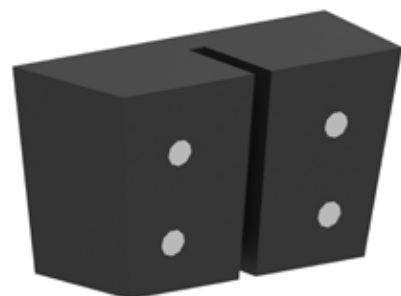
Model	F320RF	
Weight	60 kg	132,3 lb



→ MAGNETIC INSERTS



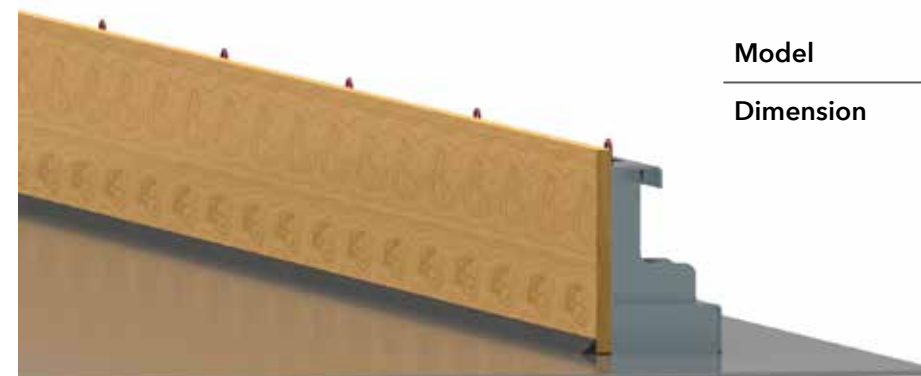
Model	MIR300
Dimension	ON REQUEST



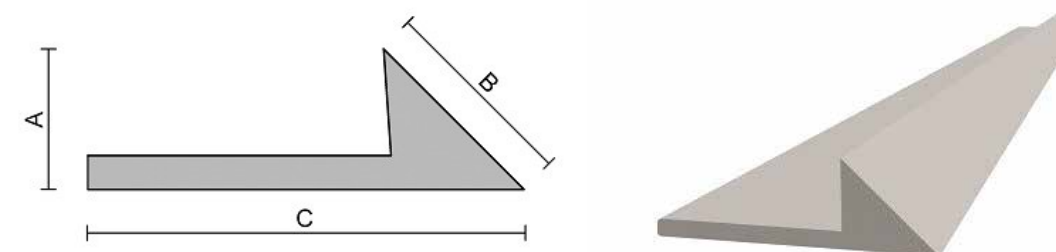
Model	MIR800
Dimension	ON REQUEST



→ PVC CORNER PROFILE FOR WOODEN SHUTTERING SKIN



Model	PAP100
Dimension	ON REQUEST



→ CORNER MAGNETIC SUPPORT FOR ANY TYPE OF SKIN



Model	MAS400	
Height	400 mm	15,7"
Weight	10 kg	22 lb

OLMET ITALY REMAINS AT COMPLETE DISPOSAL TO CREATE CUSTOMIZED SOLUTIONS FOR ANY TYPE OF INSERTS/RECESSES AND SHUTTERING PROFILES

USE AND MAINTENANCE OF OLMET MAGNETIC BOXES

APPLICATIONS WITH SIDE-ELEMENTS AND CASTING SEPARATORS

The PR-series magnets can be used with the purpose-made, dedicated PRSQ-series systems, so as to fix the casting separators and the shutters in a fast and safe way. This system ensures a perfectly perpendicularity of the shuttering set. The PRSQ-series systems are suitable for casting thickness ranging from min. 200 mm/7,9" to max. 450 mm/17,7".

INSTRUCTIONS FOR USE

For all fixing operations, use only the screws placed on top of the magnetic boxes af any adhesive force. After positioning the magnetic dividing side-elements, press the locking-button of the magnet. Make sure that the magnet perfectly adheres to the casting plate. To activate the magnet, one must unwaveringly strike hard the activation push-button by one's foot, until it clicks, confirming its adherence to the underlying surface. If the activation push-button is pushed slowly and with some hesitation, the magnet will not perfectly adhere and may cause the side-elements to slip away. To unlock the magnets, lift the magnet push-button by means of the purpose-made detaching lever. To release and remove the magnet, it is necessary to insert the detaching lever under the push-button and, while keeping the magnet corner pressed, resolutely pull the lever towards oneself with force.

UPKEEPING INSTRUCTIONS FOR MAGNETS

In order to preserve as long as possible, the magnets and magnetic applications such as casting separators and inserts for formworks, it is necessary to accurately grease both the side-elements and the magnets. This makes cleaning operations easier and prevents them from scratches and rust, while preserving their surface smooth. Soon after use, it is necessary to clean the surface of the side-elements and of the magnets by means of a scraper or a brush (never hit the magnet by hammer). It is advisable to soak the PR-series magnetic boxes into the lubricant, so that the oil can seep into the thin gaps that are subject to steam and humidity piercing through. Some light lubricants may contain a high quantity of water; thus, their use is to be avoided, due to possible risks of rusting. The magnets and the magnetic side-elements (with built-in magnets) must not remain onto the steel pallets during rebar welding operations, as it may cause their de-magnetization. It is forbidden to carry out welding operations onto the magnets, as it may cause the loss of their magnetic field and damage the magnets themselves. It is forbidden to disassemble the magnets. The fresh concrete is to be prevented by any means from entering into the magnetic core (for example, through unscrewed screws of the fixing devices). It is forbidden to hang, swing and hit the magnets. Pay utmost attention during their stacking and transport. If they are stacked on top of each other, it is necessary to place in-between them a layer of insulating material, such as plastic foam, wood, etc. Always store the magnets in a dry place, high on shelves, however not on the floor. Prevent them by any means from coming into contact with water and humidity. Involve always the same staff in handling and upkeeping the magnets.

SPARE PARTS

If at all, in order to perform routine or extraordinary maintenance operations, it is necessary to replace one or more components, the User is urged to submit a request for spare parts to our technical department. In case of any doubt on the identification of the product, do not hesitate to contact our Technical Dept.

INTENDED USE

The magnetic equipment described herewith has been designed and sized for fixing side-elements (shutters), casting separators and inserts onto metal formworks for industrial precasting of concrete elements. DANGER: It is thoroughly forbidden to use the equipment or any single part of it for any other use than the one specified within this handbook.

NOT-PERMITTED USE

DANGER: All uses that are not explicitly mentioned in the previous paragraph have to be understood as not allowed, unless they are specifically approved by OLMET ITALY S.R.L. In case of any doubts, it is recommended to seek for OLMET ITALY S.R.L. advice in advance. DANGER: The equipment can neither be operated, nor be installed in any corrosive and/or explosive environment.

POTENTIAL GENERAL RISKS

DANGER: Most occupational accidents at work is caused by the non-compliance to the most basic safety regulations. It is necessary that everybody working with the captioned equipment perfectly knows and complies to safety regulations listed below. DANGER: Before starting to use the equipment, always check that no components are noticeably damaged. DANGER: Do not carry out any works or modifications of any kind on the equipment or its components. Do not modify in any way and for any reason any part of the equipment to adapt other additional devices or other equipment to it.

SPECIFIC RISKS

ELECTROMAGNETIC DISTURBANCES: The captioned magnetic boxes do incorporate magnetic components. Their normal operation may cause electro-magnetic disturbances, that, despite being within the limits set by standards and regulations in force, may result to be critical for any other equipment having low immunity placed just nearby. For this reason, it is advisable to keep them far from any electronic equipment being not part of the installation or medical equipment for personal use which may have low immunity to magnetic disturbances (e.g. pacemakers).

CRUSHING: Due to the high adhesive power of the magnetic boxes (up to 2100 kg) used near magnetic surfaces, some crushing risks may occur. Therefore, it is absolutely necessary to make sure that the upper push-button is deactivated (is in the "up" position) when the boxes are handled, shifted or are however not adhering to the intended metal surfaces.

In every case, the magnetic boxes must be deactivated and removed / placed by using the purpose-made detaching levers supplied along with them, so that hands and feet are kept as far as possible from the adhering surface.

DISPOSAL

The disposal of the equipment and/or of its parts, must be carried out in full compliance with the laws in force in the Country where the equipment is used. WARNING: The abandonment of equipment disposed of outside areas specifically intended

for this purpose is contrary to the principles of respect and protection of the environment and it is punishable by administrative and criminal sanctions in some Countries. Strictly follow all laws governing the disposal of waste in force in the Country where the equipment is disposed of.

TECHNICAL ASSISTANCE

For any intervention at any time, OLMET remains at its Customers' disposal. Equipment and skilled staff are available for revising and repair operations. Contact details of OLMET ITALY S.R.L. ASSISTANCE SERVICES in Italy and abroad, can be requested to OLMET ITALY S.R.L.

GUARANTEE

The equipment is covered by guarantee under the General Conditions of Sale of the corresponding Contract. The Guarantee applies to those parts of the equipment which are found to be defective on account of manufacturing or assembling reasons, as assessed by the Manufacturer's engineers. It does not apply to parts that are subject to tear-and-wear and damages due to incorrect use and non-compliance with the prescriptions contained in this handbook. The Guarantee does not apply to labour costs, even if required to replace or repair the faulty part. The warranty becomes null and void in the following cases:

- Repairs are carried out without the consent of the manufacturer OLMET ITALY S.R.L.;

- Non-original spare-parts are used;

- The equipment is used for other purposes than the one it is meant for;

- The prescriptions listed in this handbook are not complied with.

WARNING: OLMET ITALY S.R.L. is not liable for any malfunctions, faults and defects arising from the non-compliance with the regulations, instructions and maintenance procedures and instructions described in this handbook.

GUARANTEE CONDITIONS

The SELLER undertakes to remedy any defect of the Equipment stemming only from defects attributable to SELLER in engineering or in manufacturing. Liability provided for in the preceding paragraph is limited to defects which appear during a period of twelve months commencing from the date of start-up of the Equipment, however, it shall not exceed 14 months from the date of delivery of the Equipment (based on invoice date). Guarantee shall not be valid in absence of the BUYER's proof of correct use, maintenance and conservation of the Equipment and of no modification or repair to it without SELLER's consent. In particular, the BUYER must observe the agreed or - where not agreed upon - the foreseeable normal daily use, in terms of time and workload, of the Equipment. The SELLER's warranty shall not apply to quick wearing and spare parts. In order to be able to avail itself of its rights under this Article, the BUYER shall notify the SELLER in writing as soon as possible of any defects that have appeared and shall give it any opportunity of inspecting and remedying them. Save where nature of the defect is such that it is appropriate to effect repairs on site, the SELLER shall - at its choice - repair or replace the parts the BUYER will return at its own expenses for repairing or replacement, with a defect covered by this Article. Repaired parts or parts supplied in replacement shall be delivered FCA (Incoterms® 2010), The SELLER being entitled to appoint a trustworthy carrier on behalf of the BUYER if this does not take delivery. In case of any dispute about functionality of equipment or other goods supplied, the non-agreeing Party can request, at its care and expenses, for the intervention of independent specialists to perform a supplementary survey, so that its result will be final and binding for both Parties. The guarantee hereinbefore shall absorb and substitute the legal guarantee for vices and lack of compliance and exclude any other SELLER responsibility, however originated by the supplied Equipment; in particular, the BUYER shall have no right to put forth any other claim for direct and/or indirect damages (e.g. damages for production failure, profit loss), reduction of the price or resolution of the contract. In any case, upon the expiration of the guarantee, no request can be made to the SELLER.

ALL WEIGHTS ARE ONLY TENTATIVE, THEY MAY VARY

ALL ITEMS ARE PROVIDED WITH A STANDARD PICKLED FINISHED. GALVANIZED FINISH ONLY UNDER EXPLICIT CUSTOMER REQUEST.

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