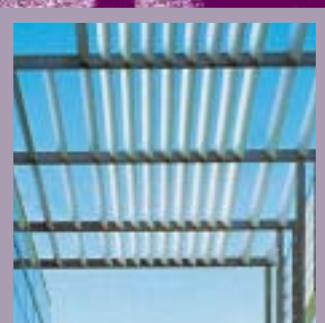


FRANGISOLE SISTEMI SPECIALI

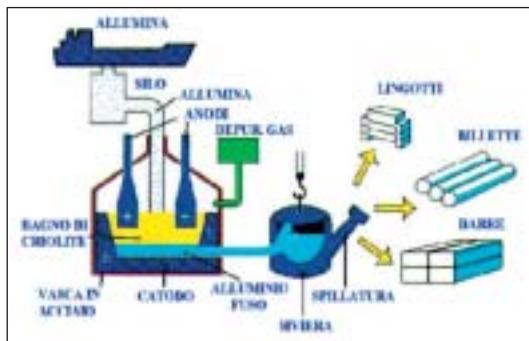
SUNBLADES SPECIAL SYSTEMS



SISTEMI PER FORME D'AUTORE

ALLUMINIO ED ECOLOGIA - ALUMINIUM AND ECOLOGY

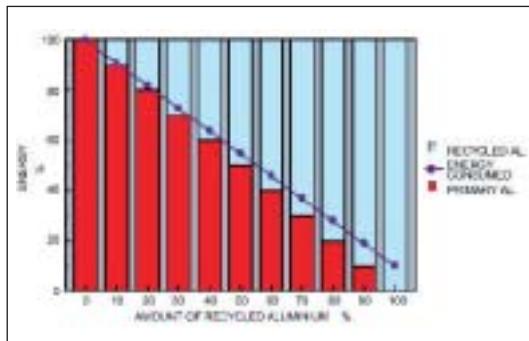
• PRODUZIONE DELL'ALLUMINIO PRIMARIO - PRODUCTION OF PRIMARY ALUMINIUM



L'alluminio in natura non si trova allo stato libero, ma sotto forma di composti che costituiscono l'8% della crosta terrestre. In termini di abbondanza l'alluminio è il 3° elemento al mondo dopo ossigeno e silicio. Dalla crosta terrestre si estrae la Bauxite, e da questa, tramite elettrolisi viene ricavato l'ossido di alluminio (allumina), la materia prima necessaria per la produzione di alluminio primario. Da 4 Kg di bauxite si ottengono 2 Kg di alumina, da questa si ricava 1 Kg di alluminio.

In nature the aluminium does not lie loose, but as a compound which makes up 8% of Earth's crust. The aluminium is the 3rd most widespread element in the World after oxygen and silicium. The bauxite is mined from the Earth's crust; from the bauxite, by electrolysis, the aluminium oxide (alumina) is obtained: it is the raw material necessary for the production of primary aluminium. From 4 kg bauxite we obtain 2 kg alumina, from which we obtain 1 kg aluminium.

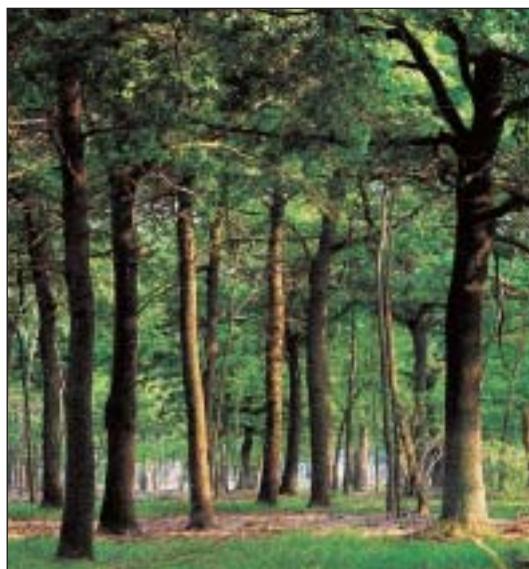
• RISPARMIO ENERGETICO NEL RICICLO - ENERGY SAVING IN RECYCLING



La qualità dell'alluminio non cambia con il riciclaggio. Gli scarti di produzione primario vengono riciclati direttamente e rimpiegati. Per la rifusione di un Kg di alluminio è sufficiente il 5% circa dell'energia usata per la produzione del metallo dalla bauxite.

The quality of aluminium does not change when recycling. The production scraps of the primary aluminium are directly recycled and re-utilised. The re-melting of 1 kg aluminium requires only 5% of the energy employed for the production of the metal from the bauxite.

• ECOLOGIA - ENVIRONMENT



Nell'industria dell'alluminio, la produzione di gas che contribuiscono all'effetto serra è dovuta all'utilizzo di combustibili fossili e al processo di elettrolisi. Le quantità emesse di questi gas sono peraltro minime e la loro incidenza sul totale dei gas prodotti dall'uomo non è che l'1% circa. D'altro canto però, il crescente impiego dell'alluminio in settori come quello dei trasporti consente di ridurre di peso gli autoveicoli, limitando l'emissione di gas nell'atmosfera, e l'utilizzo di serramenti in alluminio a taglio termico consentono un notevole risparmio energetico.

In the aluminium industry, the production of gases contributing to the greenhouse effect is due to the utilisation of fossil fuels and to the electrolysis process. The emitted quantities of the above gases are very low and their influence on the total gases produced by the man are around 1% only. However, the ever growing utilisation of aluminium in fields like the sector of transports, enables to reduce the weight of the vehicles, setting a limit to the emission of gases into the atmosphere; the utilisation of thermal break aluminium windows and doors enables a remarkable energy saving.

• RICICLABILITÀ - RECYCLING



La rifusione dell'alluminio richiede una modesta quantità di energia. Nel processo di riciclaggio è sufficiente il 5% dell'energia utilizzata originariamente per la produzione del metallo primario con perdite di materiale inferiori al 3%.

The re-melting of aluminium requires a modest quantity of energy. In the recycling process it is necessary to employ only 5% of the energy required at the origin to produce the primary metal with material losses lower than 3%.

PROPRIETA' DELL'ALLUMINIO - ALUMINIUM PROPERTIES

• LEGGEREZZA - LIGHTNESS



L'alluminio è un metallo estremamente leggero: il suo peso specifico equivale a 2.7 grammi al centimetro cubo, cioè solo un terzo rispetto a quello dell'acciaio.

The aluminium is an extremely light metal: its specific weight is 2.7 g/cm³, that means only one third of the specific weight of the steel.

• RESISTENZA - RESISTANCE



La resistenza dell'alluminio può essere ottimizzata con l'aggiunta di piccole quantità di altri metalli. Particolari tipi di leghe possono rendere la resistenza dell'alluminio simile all'acciaio.

The resistance of aluminium can be optimised with the addition of low quantities of other metals. Some particular alloys can make the resistance of aluminium similar to the steel.

• RESISTENZA ALLA CORROSIONE - RESISTANCE TO CORROSION



La formazione spontanea di uno strato di ossido, protegge l'alluminio rendendolo particolarmente resistente alla corrosione. Mediante specifici trattamenti superficiali questa caratteristica può essere ulteriormente accentuata.

The spontaneous oxide coating protects the aluminium making it particularly resistant to corrosion. This feature can be improved by means of specific surface treatments.

• LAVORABILITA' - MACHINABILITY



La possibilità di usufruire di leghe che ne esaltano e completano le caratteristiche meccaniche fa utilizzare ampiamente l'alluminio nelle più svariate applicazioni.

The aluminium can be used in the most various applications, thanks to the possibility to employ alloys which raise and complete its mechanical features.

• INFIAMMABILITA' E RESISTENZA AL FUOCO - INFAMMABILITY AND FIRE RESISTANCE



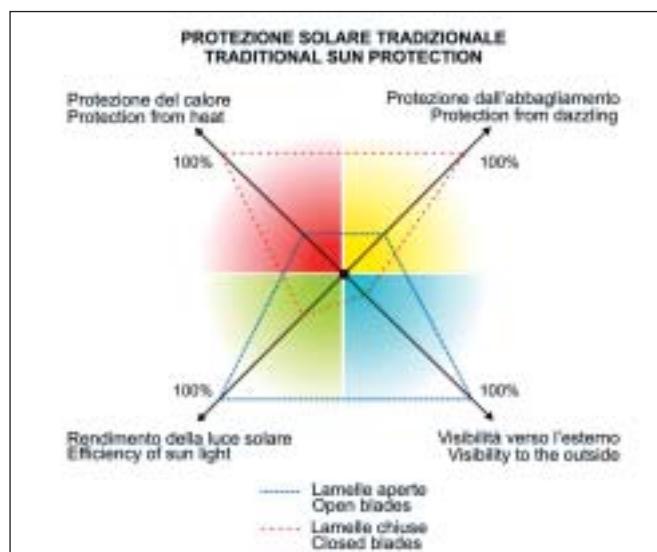
Per le sue caratteristiche di refrattarietà l'alluminio può essere usato in edilizia, nelle costruzioni e nei trasporti.

Thanks to its refractoriness features, the aluminium can be employed in the buildings and in the transport sector as well.

"L'involucro edilizio che se dal punto di vista architettonico è una "pelle" ricca di suggestioni, dal punto di vista fisico non è altro che un filtro tra l'ambiente esterno e quello interno, controllando l'immissione d'aria, calore, luce, suoni ed odori. Si è generalmente d'accordo sul fatto che l'aria, la temperatura, il vento ed il suono sono controllati nel modo migliore all'interno del muro stesso, mentre la luce è più facile controllarla all'interno dell'involucro edilizio e la radiazione termica è bloccata più efficacemente prima che raggiunga l'involucro edilizio vero e proprio".

Basandoci su questi concetti espressi dall'arch. **Viktor Olgay**, nelle prossime schede illustreremo le caratteristiche tecniche e prestazionali del sistema Frangisole Metra.

Le facciate continue e i serramenti negli edifici rappresentano un canale di passaggio per l'apporto energetico "gratuito" proveniente dal sole.



E' indispensabile utilizzare al meglio questi apporti gratuiti solo quando comportano dei vantaggi e cercare di eliminarli o minimizzarli alla fonte quando possono essere dannosi, ad es: evitando surriscaldamento nei periodi estivi.

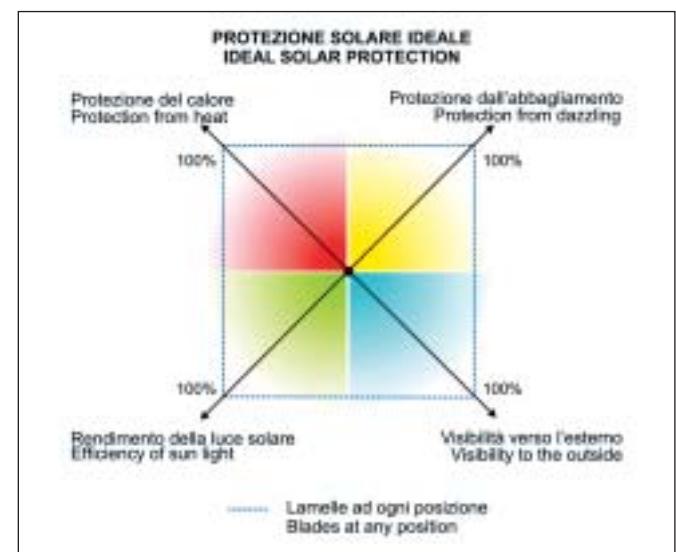
L'uso della luce naturale, in base alle zone climatiche ed alla tipologia degli edifici, può portare ad un grosso risparmio energetico. Ad esempio, un edificio che si trova nella zona costiera temperata, utilizzando in modo efficiente la luce naturale, riesce a raggiungere un risparmio energetico del 20%. In edifici pubblici come scuole, uffici, piccole industrie spesso il 50% del consumo energetico è dovuto all'illuminazione elettrica.

Per controllare in maniera ottima la radiazione solare che raggiunge l'edificio sottoforma di luce e d'energia termica si consiglia l'uso dei Frangisole Metra.

"The building cover, if from an architectural point of view it's a "skin" rich of suggestions, from a fisical point of view it's not but a filter between outside and inside, controlling the air, heat, light, sound and odors breacking in. It's generally agreed on the fact that the air, the temperature, the wind and the sound are controlled in a better way by the wall himself, while the light it's easier to control on the inside of the building, and the thermic radiation it's blocked most efficiently first that reaches the very building cover."

Based on this concepts expressed by the arch. **Viktor Olgay**, in the next pages we will illustrate the technical features of the Metra Sunshades system.

In the buildings, the curtain walls and the windows represent a breacking-in channel for a "free" supply of energy coming from the sun.



It's indispensable to make the best use of this free supplies only when they are an advantage and look to eliminate or reduce them when they are harmfull, i.e: avoiding overheating on the summer period.

The use of natural light, based on the climatic zone and on the building solution, can make possible great energy savings.
 For example, a building that is located on a coast-tempered area, using in a smart way the natural light reaches a 20% energy-saving. On public buildings like schools, offices and little industries, often the 50% of the energy is spent on electric illumination.

To control in an optimum way the solar radiation that reaches the building under the form of light and thermic energy it's advised to use the Metra Sunshades.

ORIENTAMENTO DEI FRANGISOLE SUNBLADES ORIENTATION

Premessa: il seguente testo ha come riferimento geografico la latitudine in cui si trova l'Italia, l'emisfero Nord. I parametri d'oscuramento qui stabiliti sono adatti per le schermature negli edifici situati su questo emisfero. Per calcolare le schermature nel emisfero Sud i concetti saranno gli stessi ma alternando le definizioni: al Sud corrisponde l'attuale Nord e viceversa. Per l'esposizione ad Est / Ovest si deve invertire l'angolazione applicando lo stesso criterio Sud / Nord.

Esposizione a Sud: durante l'estate nelle ore meridiane il sole è molto alto sul piano orizzontale e penetra direttamente attraverso le aperture esposte a sud solo in minima parte, anche alla mattina ed al pomeriggio i raggi investono la facciata con una inclinazione tale per cui uno schermo orizzontale esterno fisso oppure mobile con lamelle orientate sub-orizzontalmente è sufficiente a controllare l'irraggiamento diretto del sole.

D'inverno il sole è più basso sull'orizzonte, è consigliabile usare dei frangisole con lamelle orizzontali ad inclinazione variabile.

In questo modo gli schermi garantiscono un passaggio di luce diffusa, dirigendo gran parte del flusso verso il soffitto, riducendo i fenomeni d'abbagliamento ed aumentando l'illuminazione utile sul piano delle attività.

Esposizioni Est ed Ovest: è caratterizzata da un irraggiamento diretto solo per metà della giornata e dal settore Sud dell'emisfero celeste.

In questo caso si consiglia adottare schermi con lamelle orizzontali inclinate tra i 45° e i 60° oppure con lamelle verticali inclinate di 45° verso Nord in modo tale che la radiazione diretta incida con un angolo limite di 90°, consentendo l'entrata diretta della luce proveniente dal cielo e diffondendo, mediante riflessione, l'irraggiamento del sole.

Esposizione Nord: non richiede schermatura in quanto l'irraggiamento diretto solare è minimo e limitato al periodo estivo, durante le prime ore del mattino ed al tramonto.

Premise: the following text has the Italian latitude as a geographic reference, the Nord hemisphere. The screening parameters here established can be considered only for buildings situated on this hemisphere. To calculate the screening for the South hemisphere the concepts will be the same, but changing the definitions: to South will correspond North and viceversa. For the exposition to Est / West the angulation must be inverted, applying the same South / North criteria.

Exposition to South: during summer at the noon hours the sun is very high on the horizontal plane and it penetrates directly through the south-exposed windows only in a minimum part, even at morning and at the afternoon, the sun rays invest the façade with an inclination such as an external horizontal fixed screening, or a mobile-blades system in open position will be sufficient to control the sun radiation.

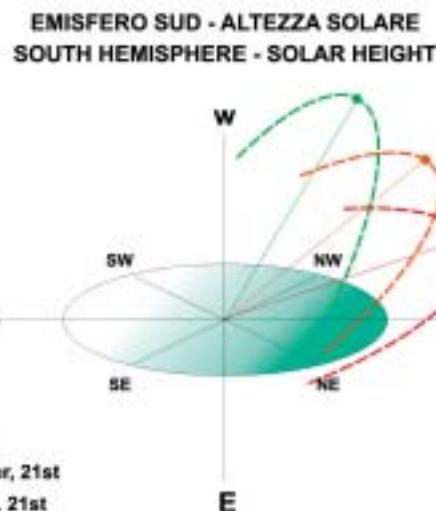
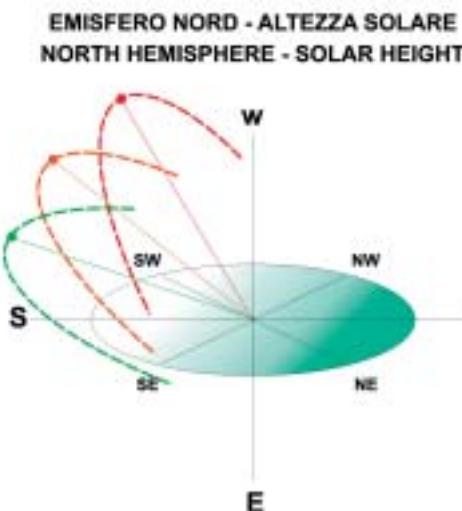
In winter the sun is slower regarding the horizon, it's advisable not to use the fixed but the variable angles sunshades.

In this way, the screening can guarantee a diffused light passage, driving great parts of the flow to the ceiling, reducing the dazzling phenomena and increasing the utility light on the activity plane.

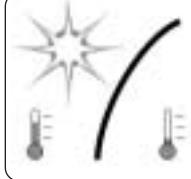
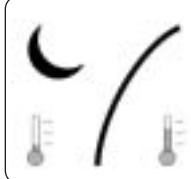
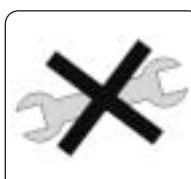
Exposition to East and West: is characterized by a direct radiation only by half of the day(journey), and from the south sector of the sky hemisphere.

In this case it's advisable to adopt a screening with horizontal blades tilted (inclined) from 45° to 60°, or vertical blades tilted (inclined) 45° towards North in such a way that the direct radiation hits with a limit angle of 90° allowing the direct light entrance from the sky and diffusing, by reflecting, the sun radiation.

Exposition to Nord: it's not required a screening because the solar radiation is minimum and limited to the summer period, during first morning and sunset hours.



APPORTI BENEFICI D'UN SISTEMA FRANGISOLE
BENEFIC CONTRIBUTIONS OF A SUNBLADE SYSTEM

Sistema schermante come protezione dal surriscaldamento		Shading system as a protection from overheating
Protezione termica contro le dispersioni notturne		Thermal protection from night dispersions
Risparmio energetico		Energy saving
Flessibilità di configurazione e tipologie di montaggio		Flexibility of setting-up and fitting solutions
Ricircolo d'aria e ventilazione		Air re-circulation and ventilation
Silenziosità del funzionamento e miglioramento del confort acustico interno		Quiet working and improvement of the internal acoustic comfort
Orientazione manuale, motorizzata e automatica (domotica)		Manual; motorized and automatic orientation (domotics)
Minima manutenzione		Minimum maintenance

ILLUMINAZIONE NATURALE E LA NORMATIVA VIGENTE IN ITALIA ED EUROPA: NATURAL ILLUMINATION AND THE ITALIAN AND EUROPEAN ACTUAL NORMATIVE:

- **Ministeriale dei Lavori Pubblici del 22/5/67 n°3151**, “Criteri di valutazione delle grandezze atte a rappresentare le proprietà termiche, idrometriche, di ventilazione e di illuminazione nelle costruzioni edilizie”;
- **Circolare del Ministero dei Lavori Pubblici del 22/12/74 n°13011**, “Requisiti fisico-tecnici per le costruzioni edilizie ospedaliere. Proprietà tecniche, igrometriche, di ventilazione e di illuminazione”;
- **Decreto Ministeriale 5/7/75** dal titolo “Modificazioni alle istituzioni Ministeriali del 20/6/1896 relative all'altezza minima dei locali ed ai requisiti igienico-sanitari principali dei locali di abitazione”;
- **Decreto Ministeriale del 18/12/75** dal titolo ”Norme tecniche aggiornate relative all'edilizia scolastica, ivi compresi gli indici minimi di funzionalità didattica, edilizia ed urbanistica da osservarsi nell'esecuzione di opere di edilizia scolastica”;
- **Il Decreto Legislativo n° 242/96** con l'art. 16 al comma 7 precisa che “a meno che non sia richiesto diversamente dalle necessità delle lavorazioni e che [...] non si tratti di locali sotterranei, i luoghi di lavoro devono disporre di sufficiente luce naturale”.
- **Norma Italiana UNI 10530**, del febbraio 1997, intitolata “Principi di ergonomia della visione. Sistemi di lavoro e illuminazione”.
- **Norma Italiana UNI 10840**, marzo 2000, dal titolo “Luce e illuminazione, locali scolastici, criteri generali per l'illuminazione naturale ed artificiale”;
- **Norma Europea UNI EN ISO 9241-6**, dell'ottobre 2001, intitolata “Requisiti ergonomici per il lavoro di ufficio con videoterminali (VDT) - Guida sull'ambiente di lavoro”.
- **Ministerial of Public Works of 22/5/67 n°3151**, “Valutation criteria of the measures to rappresent the thermic, hidrometric, ventilation and illumination properties on building constructions”;
- **Circular of the Ministry of Public Works of 22/12/74 n°13011**, “Tecnical-fisical requirements for the building of hospitals. Technical, higrometric, ventilation and illumination properties”;
- **Ministerial decree of 5/7/75** titled “Modification to the Ministerial Institutions of 06/20/1896 related to the minimum highness of the rooms and to the higienical-sanitary main requirements for the habitational rooms.
- **Ministerial decree of 18/12/75** titled “Technical norms related to the school biuldings. Compressing minimum indices of didactic, building and urbanistic functionality to observ on the school buildings”;
- **Legislative decree n° 242/96** with the 16th article comma 7 precises that “if not differently requested from the working needs and [...] except from basements, the work places must have sufficient natural light”;
- **Italian Norm UNI 10530**, of february 1997, titled “Ergonomic principles of vision. System for working and illumination”;
- **Italian Norm UNI 10840**, of march 2000, titled “Light and illumination, school rooms, general criteria for the natural and artificial illumination naturale”;
- **European Norm UNI EN ISO 9241-6**, of october 2001, titled “Ergonomic requirements for office working with video-terminals (VDT) Guide on the work environment”.

GENERAL NOTES

Weight of aluminium profiles.	The given weight is the nominal one, it can change according to thickness and dimensional tolerances of the profiles (UNI EN 12020-2).
Dimensions of profiles.	The given dimensions are the nominal ones, they can change according to extrusion dimensional tolerances (UNI EN 12020-2). This variability affects all Aluminium profiles, it can influence, even though minimally, the cutting dimensions and therefore the final dimensions of the sunblades. The painting increases the thickness and concurs in varying the aluminium profiles dimensions and particularly, it reduces the space in the insertion seats of the accessories.
Cutting dimensions.	The nominal cutting dimensions given in this catalogue are the exact ones. In certain circumstances, during the fabrication, they will have to be rounded off, according to precision and type of programming of the measures on the machines used in one's works.
Fabrication of the sunblades.	We suggest, in the first production or before starting any major works, to produce a dimensional sample in order to check the assembly and the mechanical features of the profiles and accessories of the sunblades.
Length of the bars.	The commercial length of the bars of this series is 6500 mm.
Wall installation.	The description of some wall installation schemes for the sunblades does not have a restrictive value, it is only a suggestion, also for designers, how to solve in a simple and practical way this particular and important problem of the sunblades.
Quantity of accessories.	The quantities of accessories referred in the sunblades fabrication tables are those prescribed and tested in order to obtain the best functionality and resistance to any stress, to which the sunblades are usually subject.
Utilisation.	Metra is not responsible for any utilisation of the system different from the prescription in the present catalogue.
Finishing.	In order to limit the process of threadlike corrosion one must follow some important rules, such as: <ul style="list-style-type: none">- Utilisation of stainless steel screws- Sealing of the cut sides- Taking care during the installation

All sections, connections, assembly, machining and fittings given in the METRA drawings and catalogues correspond to the actual state of technics and have been defined with accuracy and competence.

They represent a free service that, without obligation, gives proposals and suggestions to the fabricator.

The fabricator must verify directly, at the moment of utilisation, if the proposals correspond to and if they are applicable to the case under examination, as the many-sided practical solutions can not be all illustrated in the catalogues.

- The profiles, the accessories and the gaskets in this catalogue have all been patented.
- All data given in the present catalogue are indicative and are not binding for METRA S.p.A.
- METRA S.p.A. reserves the right to bring, in every moment, all modifications it will consider suitable in order to improve its products.
- All materials illustrated in present catalogue are exclusive property of METRA S.p.A. and, under law terms, in lack of expressed authorization, all rights are reserved, even partial.

The system has been studied in its totality of profiles, gaskets and accessories according to the fabricating and applicative technology indicated in the technical catalogue and according to the currently existing rules, prescriptions and recommendations in Italy, all this has determined also the dimensional limits here given.

On this base all laboratory tests have been executed and the given results have been achieved.

Then, it is absolutely essential to use original METRA profiles, gaskets and accessories and to perform the given fabricating and applicative processes, using "original METRA equipments".

The non-utilisation, also partial, of the original METRA products cuts out every possibility of recourse against METRA, who will recognise only the replacement of those products which should result to have a fabrication default.



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IGQ 9434

Si certifica che il sistema di gestione per la qualità di:
We hereby certify that the quality management system operated by:

Metra Spa

Rodengo Saiano

**Via Provinciale Stacca, 1
25050 Rodengo Saiano BS**

è conforme alla norma:
is in compliance with the standard:

UNI EN ISO 9001:2000

per le seguenti attività:
for the following activities:

EA: 17

Progettazione e fabbricazione di profili di precisione estrusi in lega di alluminio e componentistica accessoria impiegati nei sistemi per l'edilizia e nelle applicazioni industriali

Design and manufacture of aluminium alloy extruded sections and fittings employed in the construction industry and other industrial applications

prima emissione: **1994-12-16**
first issued on:
emissione corrente: **2003-07-08**
last issued on:
data di scadenza: **2006-06-30**
valid until:

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Il Direttore
Dario Adelbato


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25050 Rodengo Saiano BS**
has implemented and maintains a Quality Management System
which fulfills the requirements of the standard

ISO 9001:2000

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CISQ/IGQ certified since: **1994-12-16**

Registration Number:

IT- 0123 IGQ 9434

- IQNet -



Fabio Roversi
President of IQNet



Gianrenzo Prati
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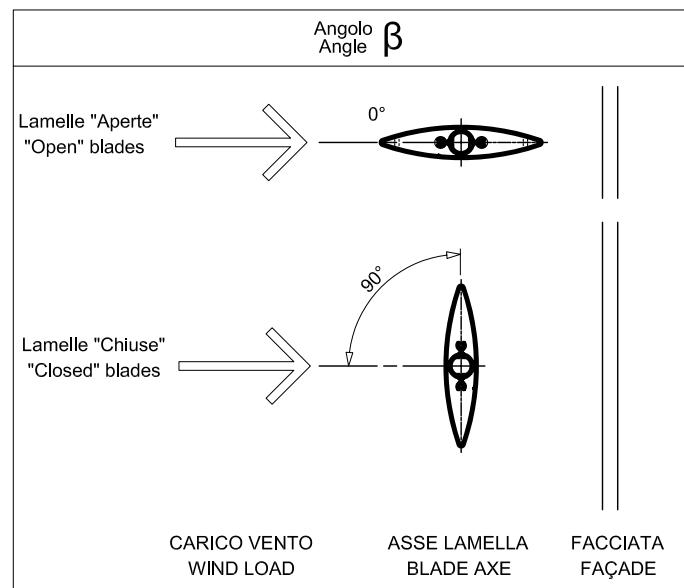
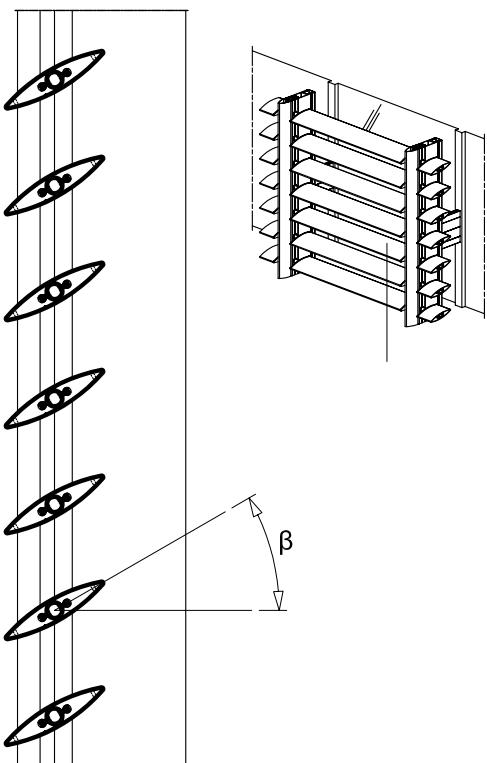
**INFORMAZIONI
TECNICO-COMMERCIALI
TECHNICAL-COMMERCIAL
INFORMATION**

- DIAGRAMMA STATICO

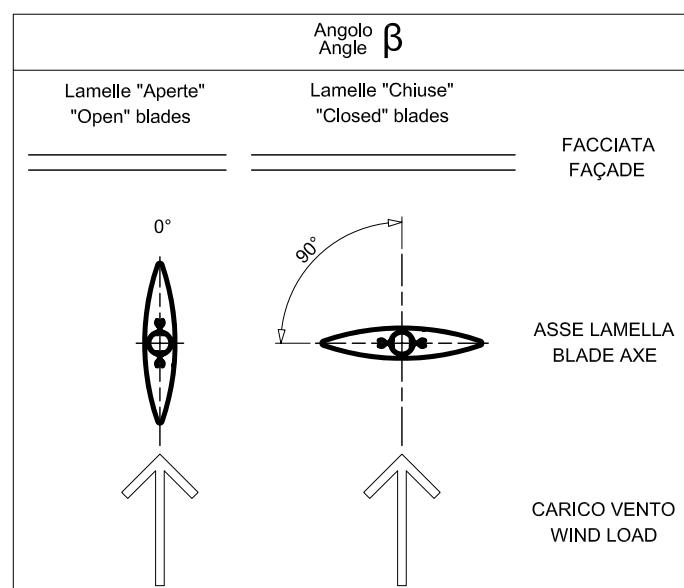
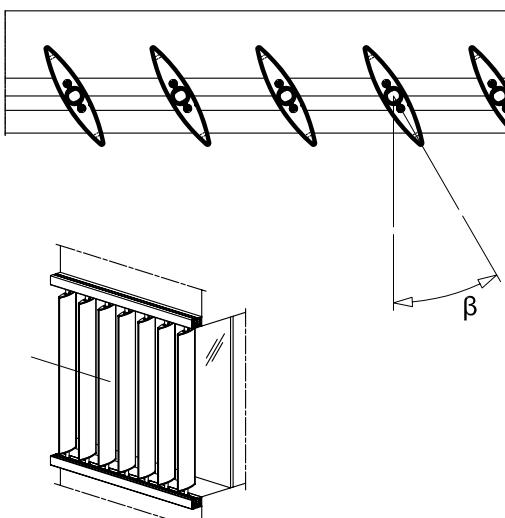
- STATIC DIAGRAM

PARAMETRI INCLINAZIONE LAMELLE
BLADES INCLINATION PARAMETERS

TIPOLOGIE ORIZZONTALI HORIZONTAL SOLUTIONS

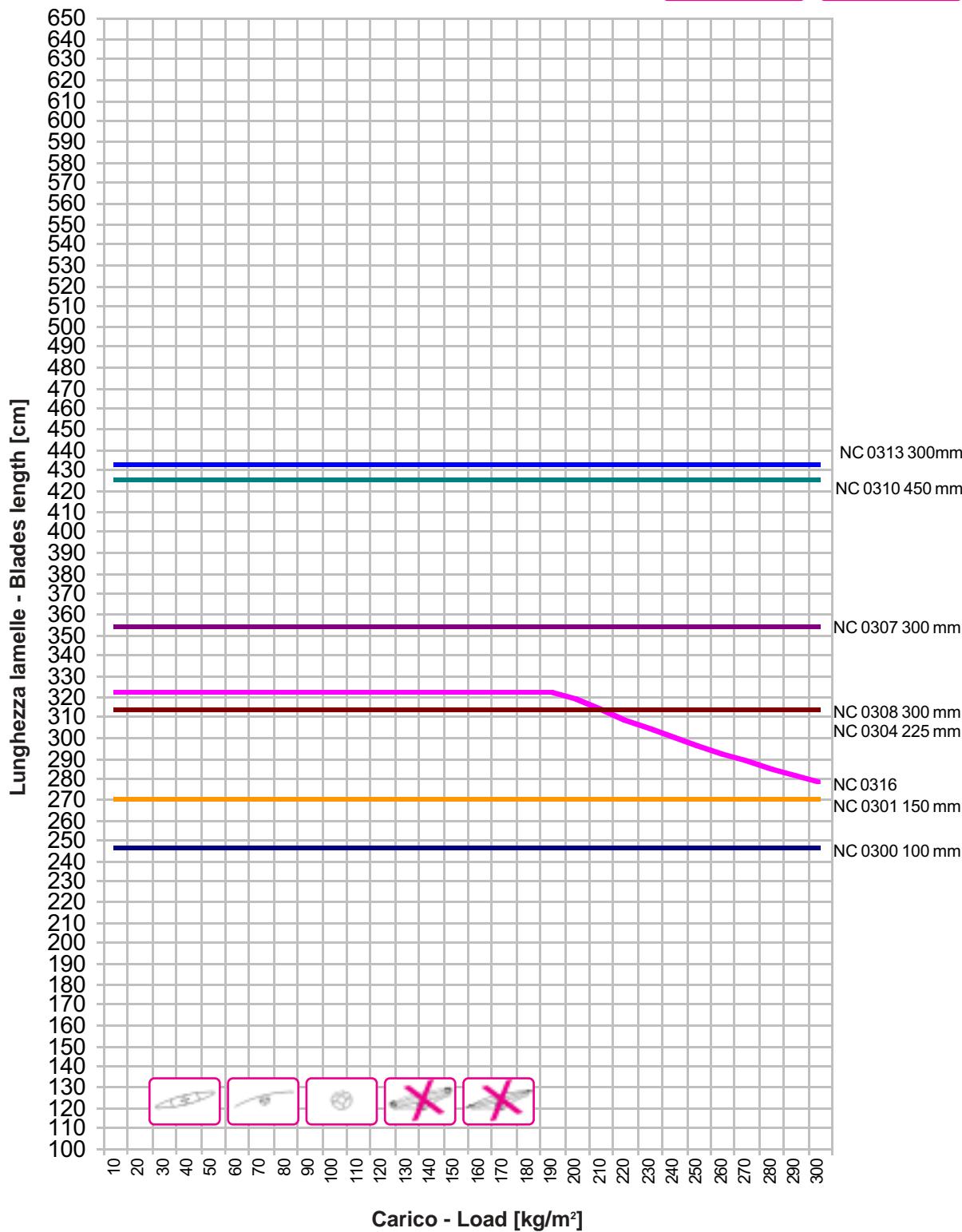
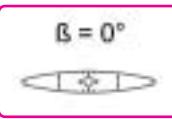
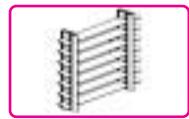


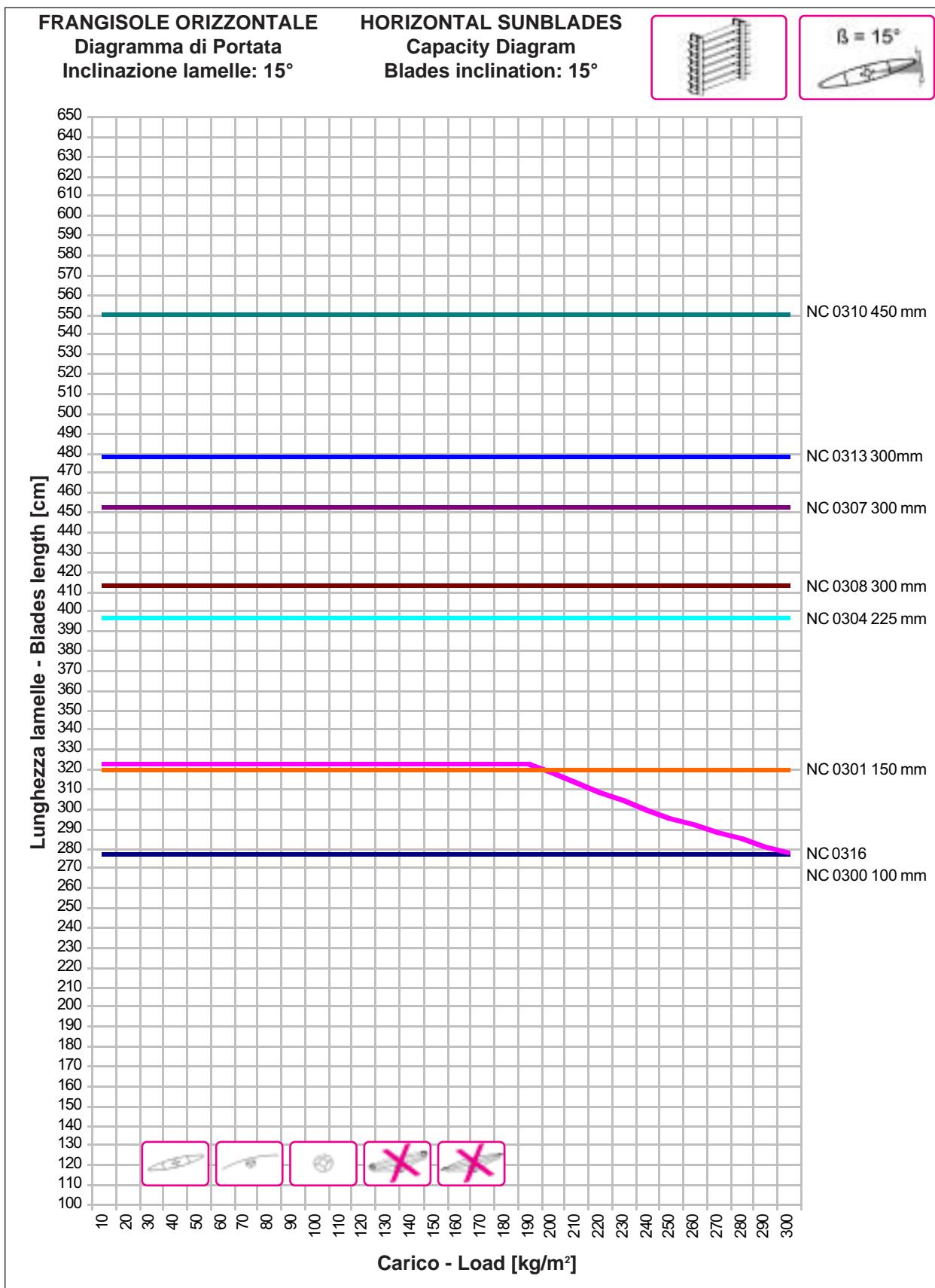
TIPOLOGIE VERTICALI VERTICAL SOLUTIONS

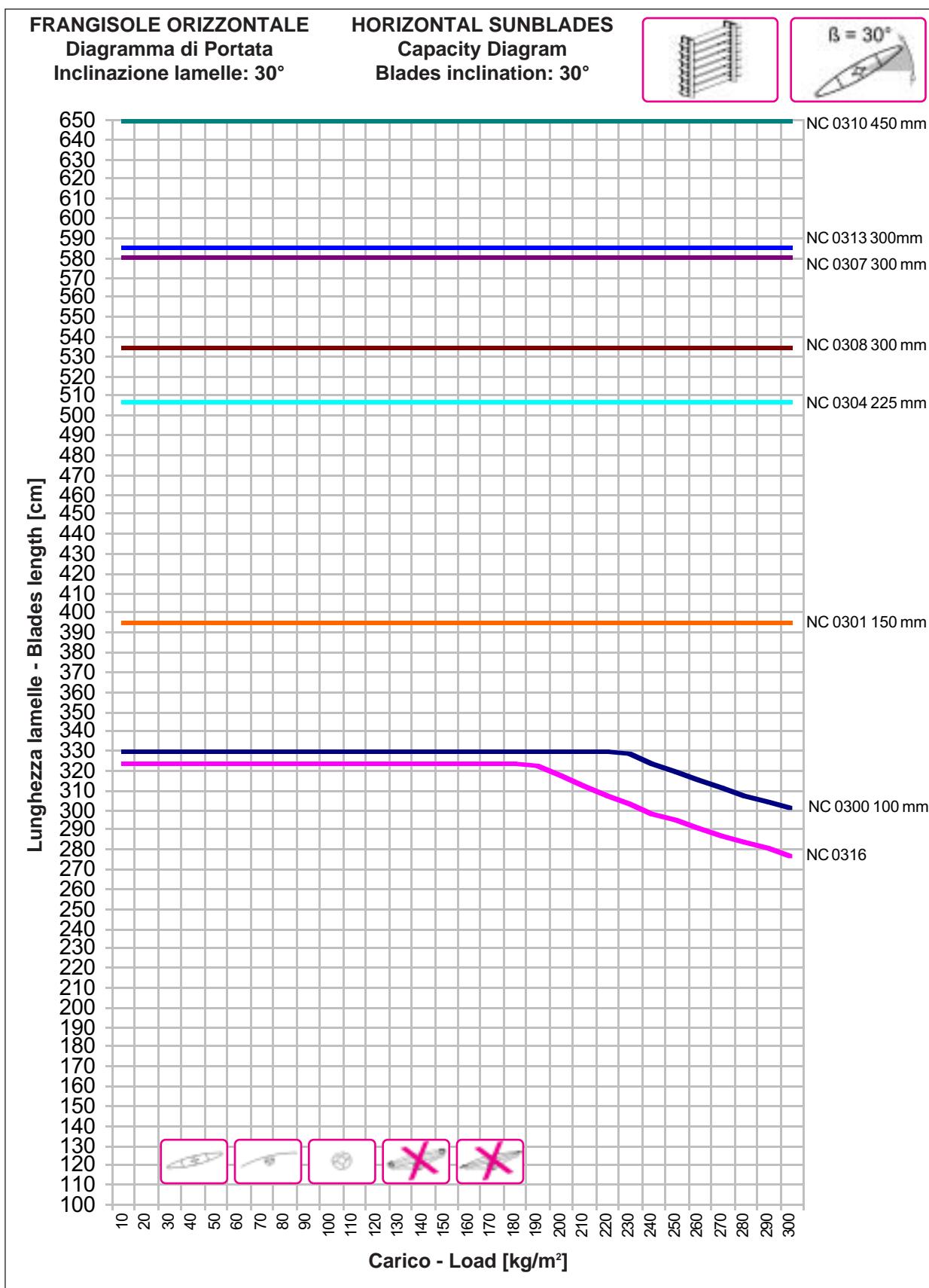


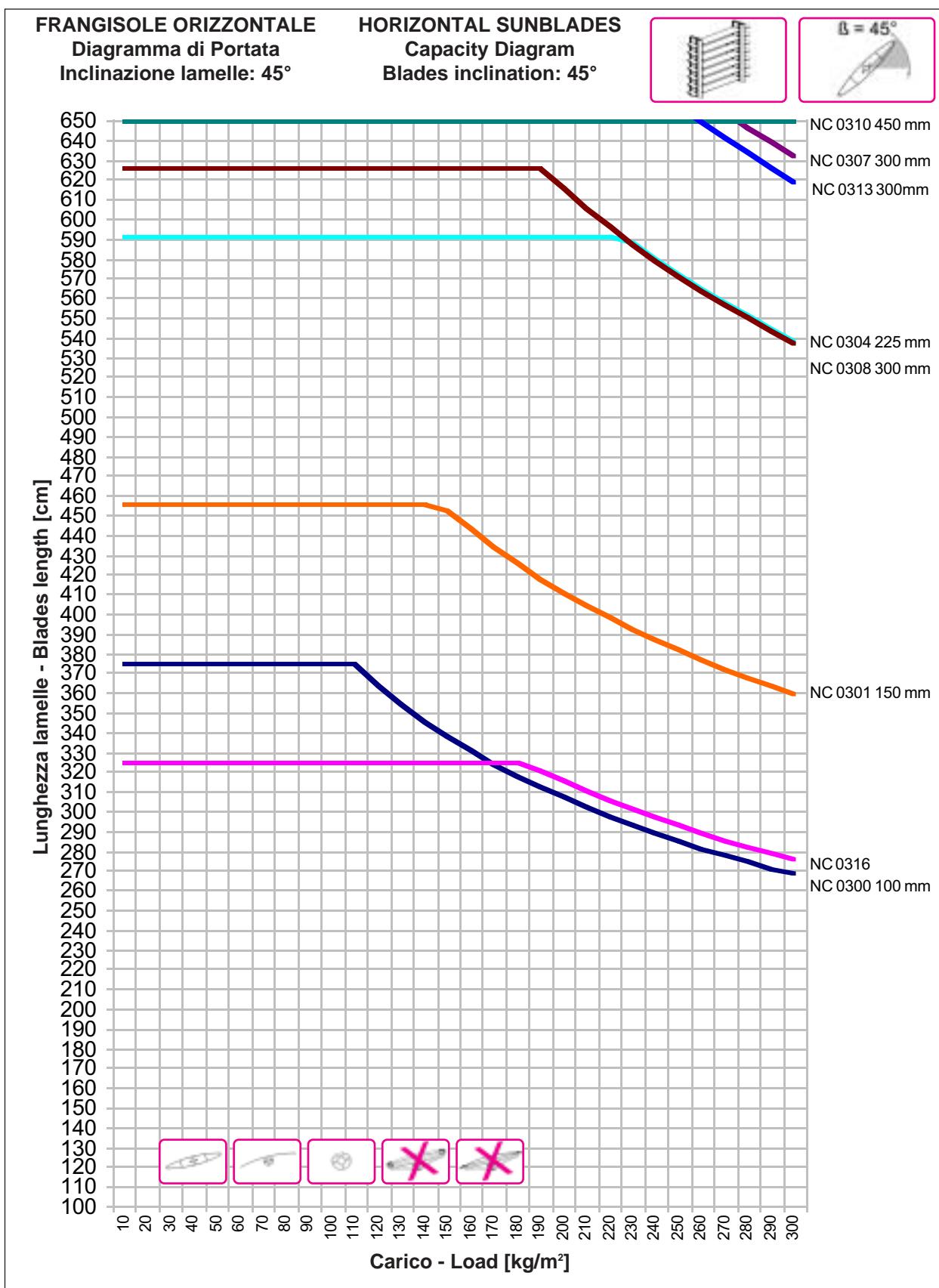
FRANGISOLE ORIZZONTALE
 Diagramma di Portata
 Inclinazione lamelle: 0°

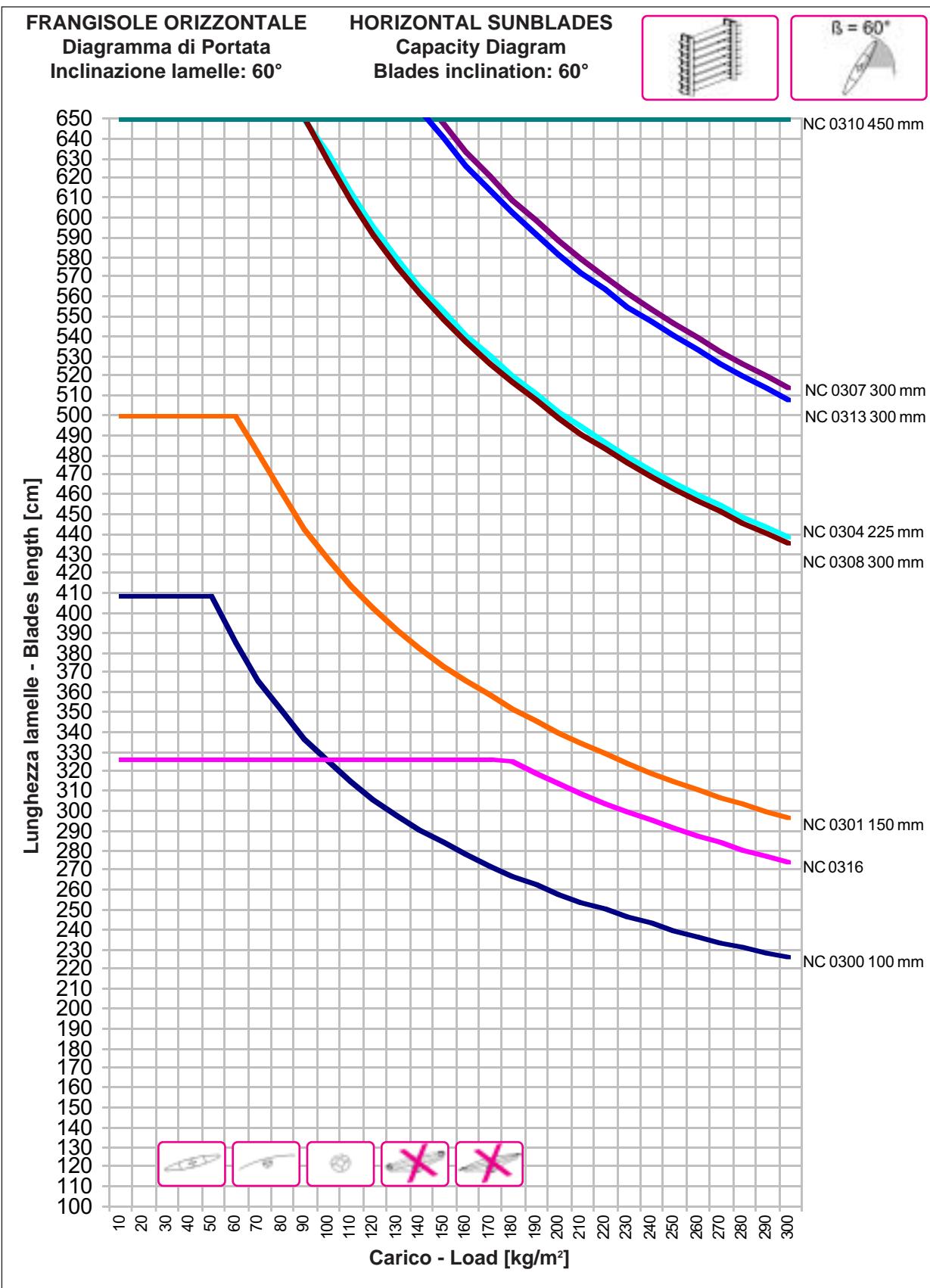
HORIZONTAL SUNBLADES
 Capacity Diagram
 Blades inclination: 0°

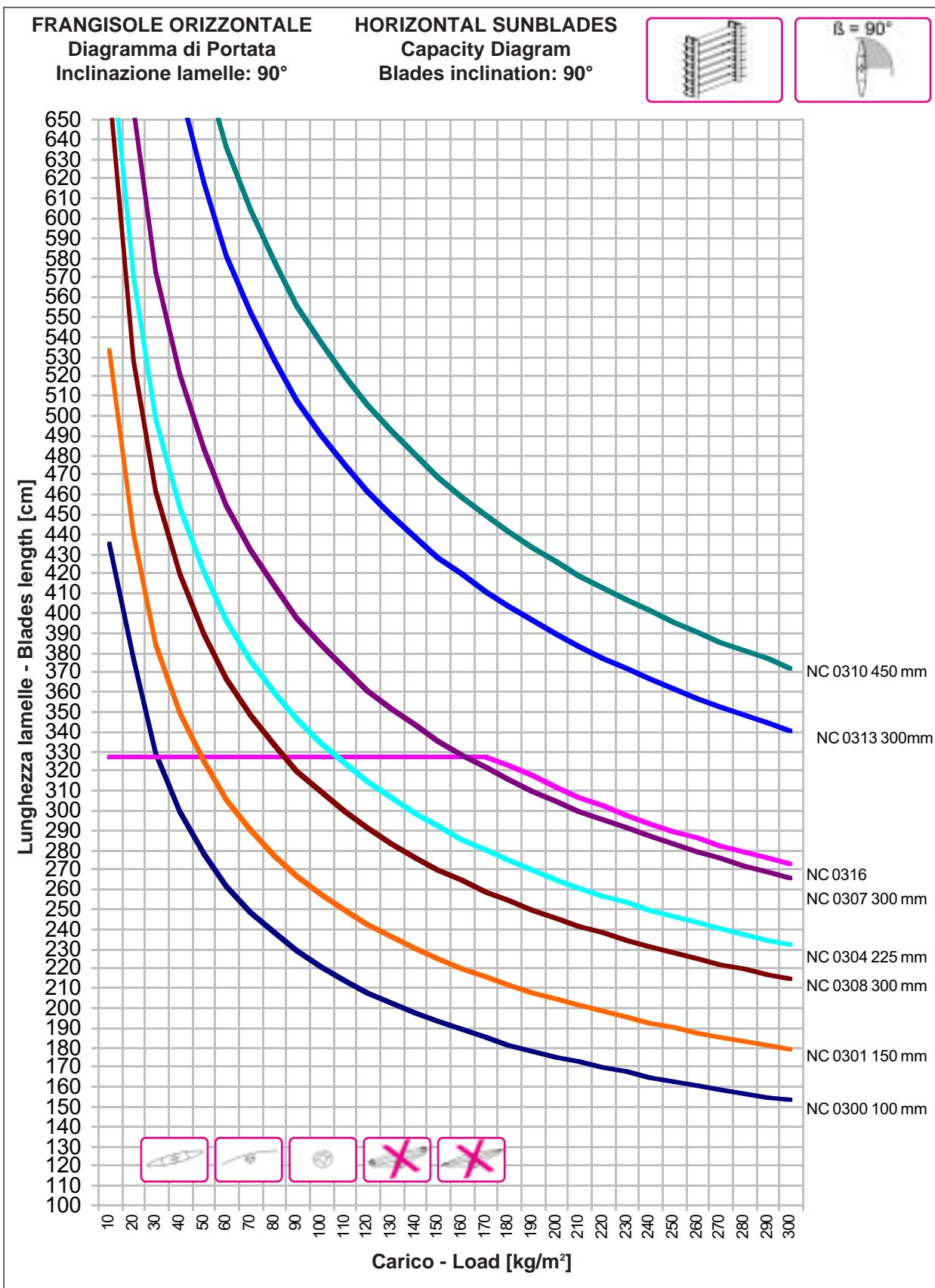


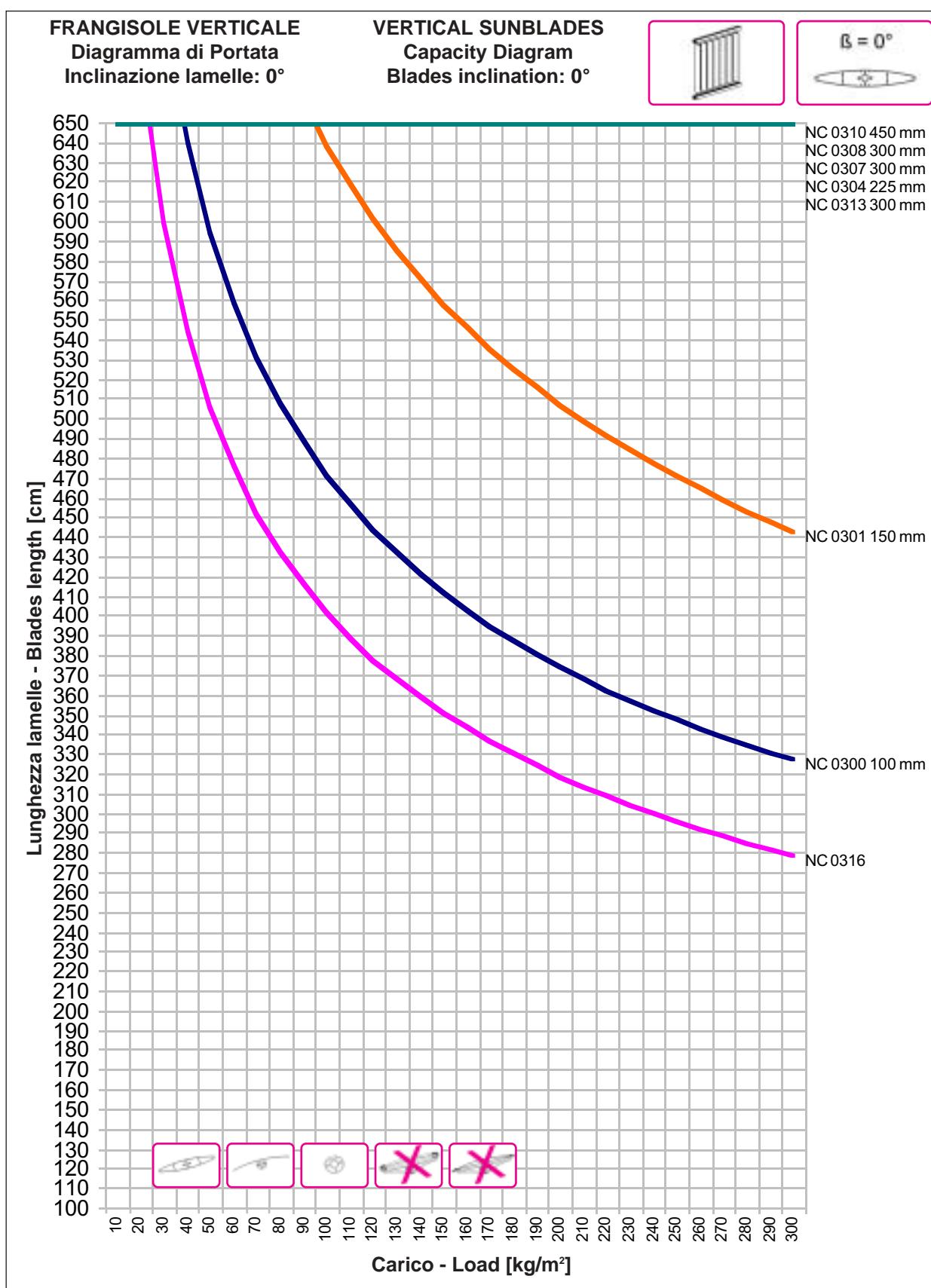


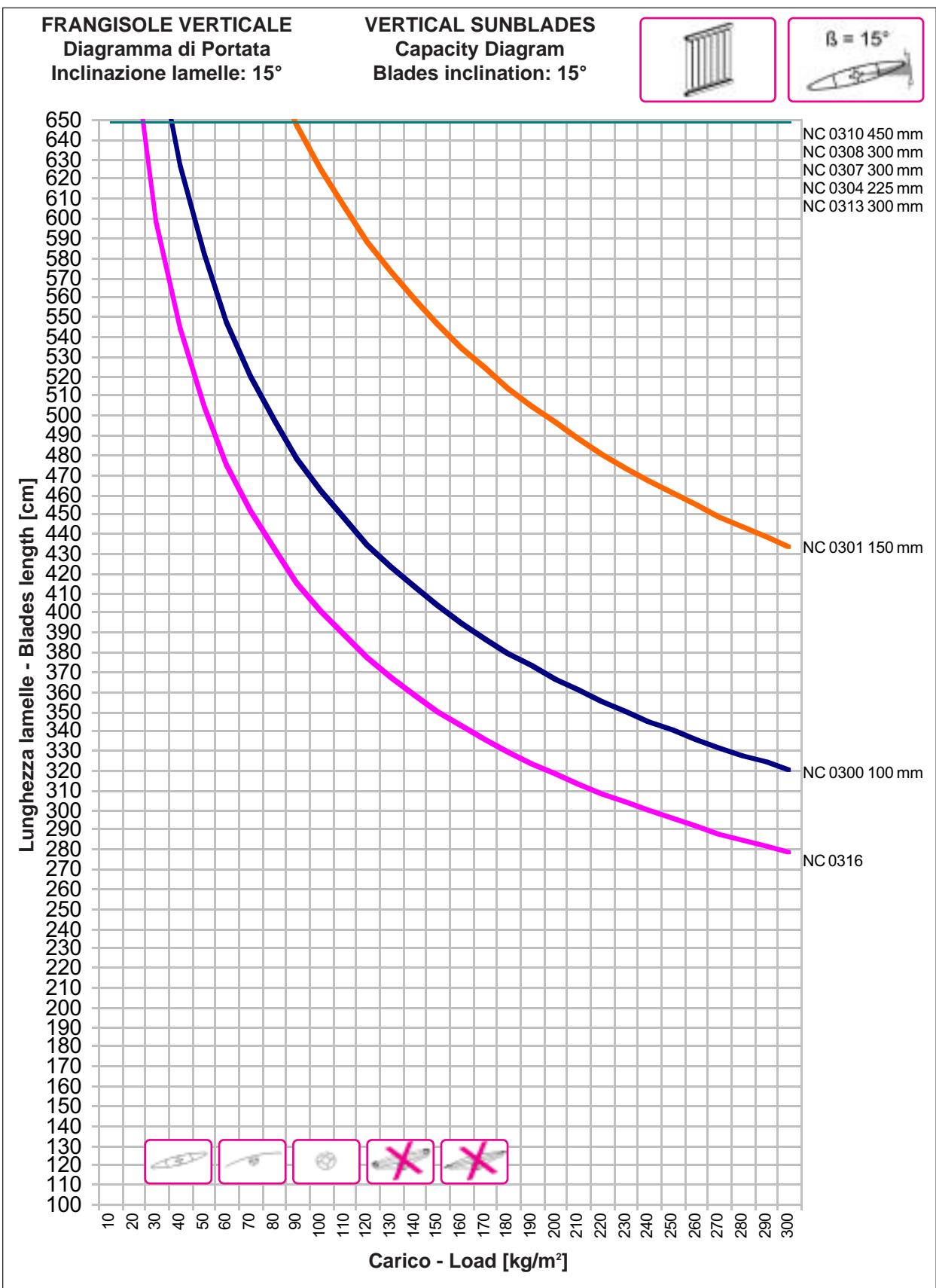


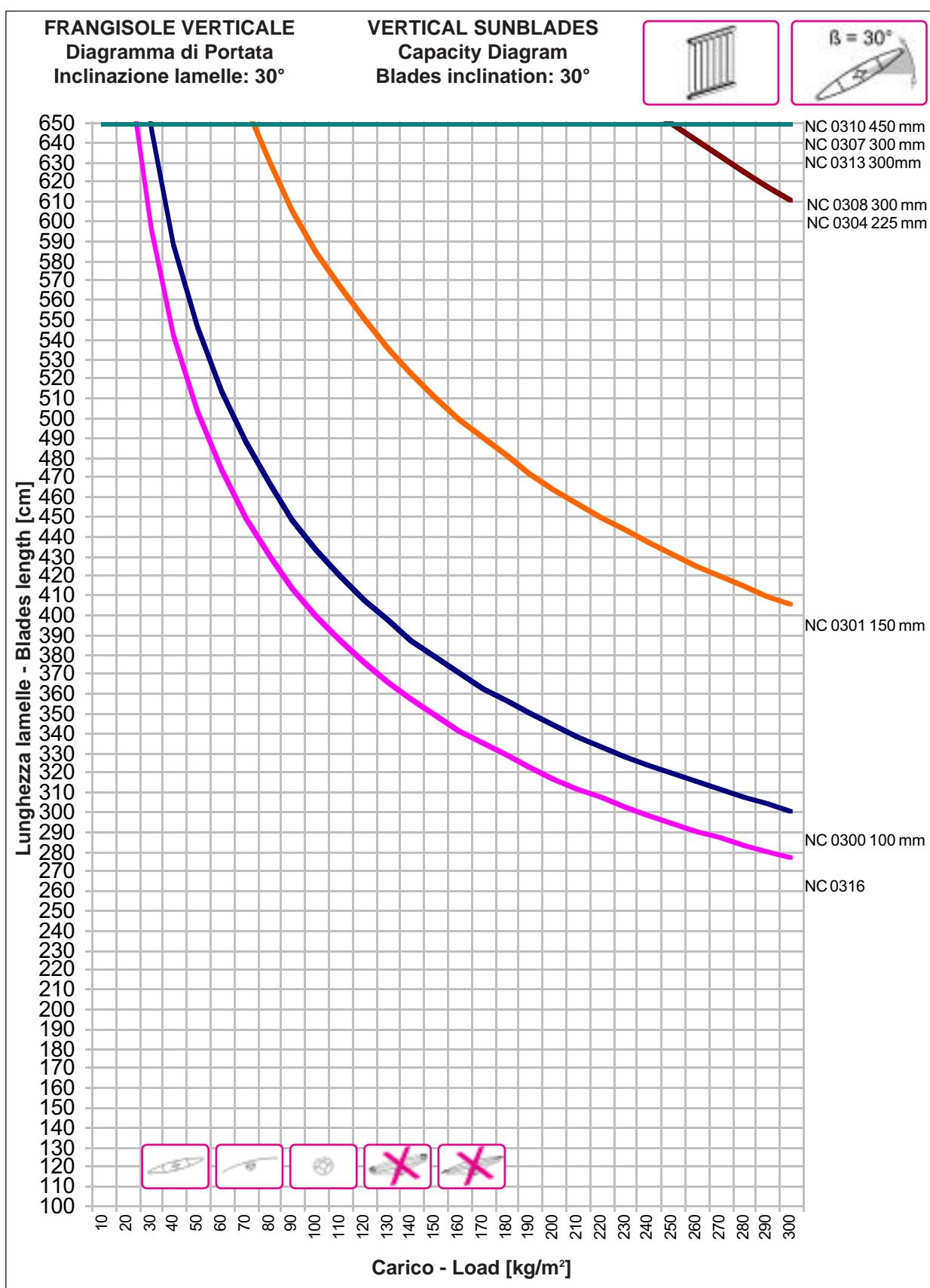


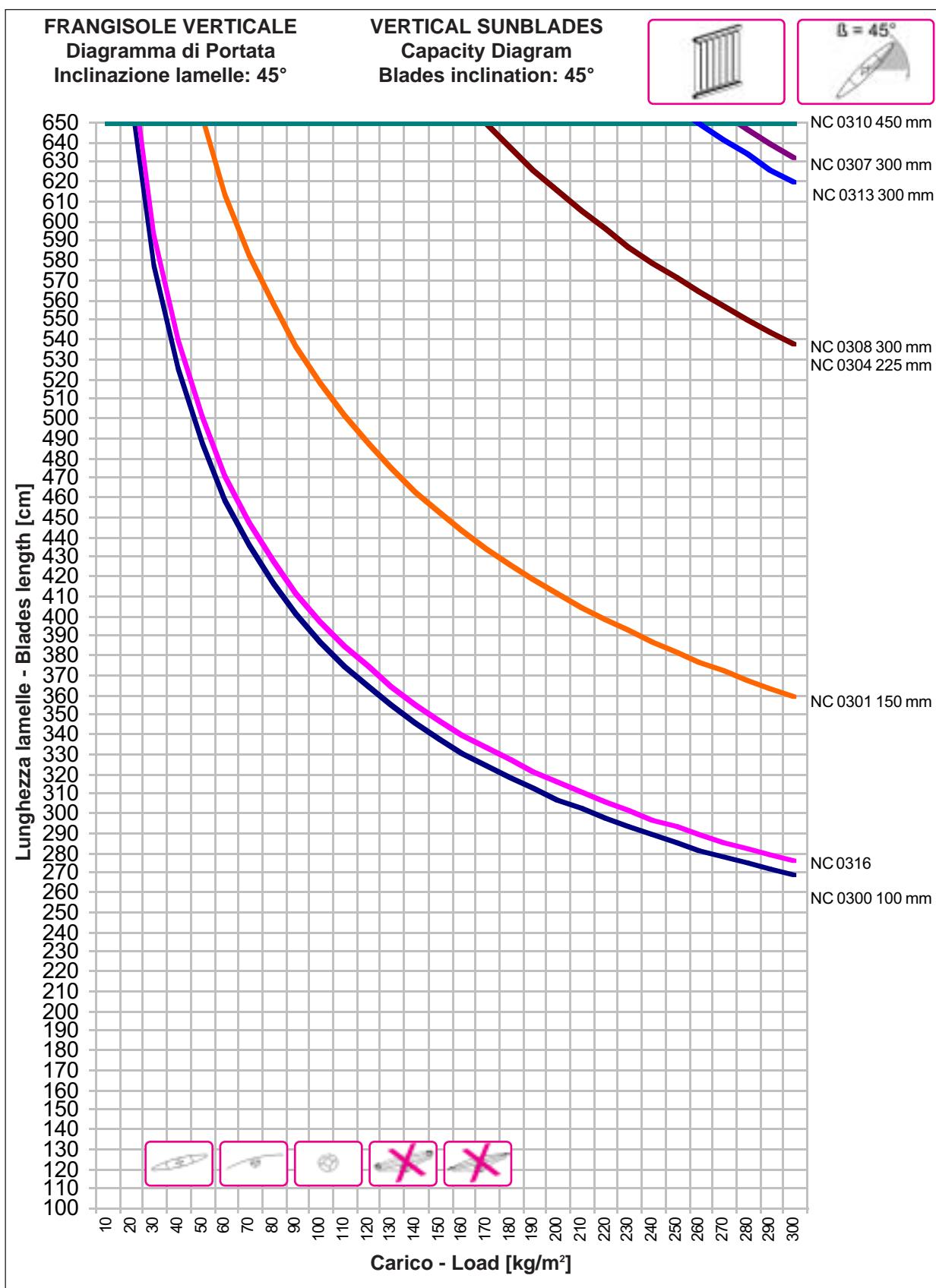


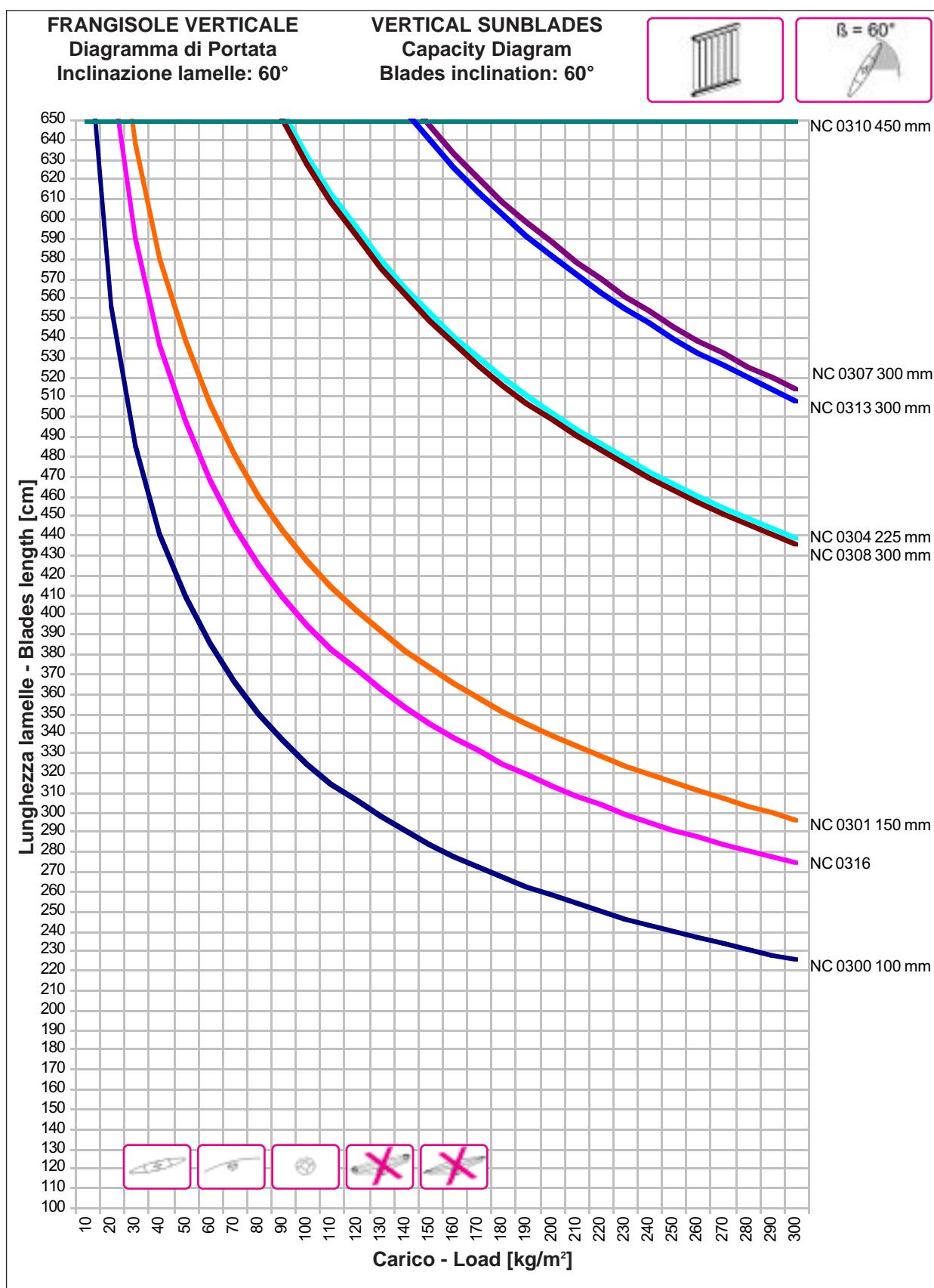


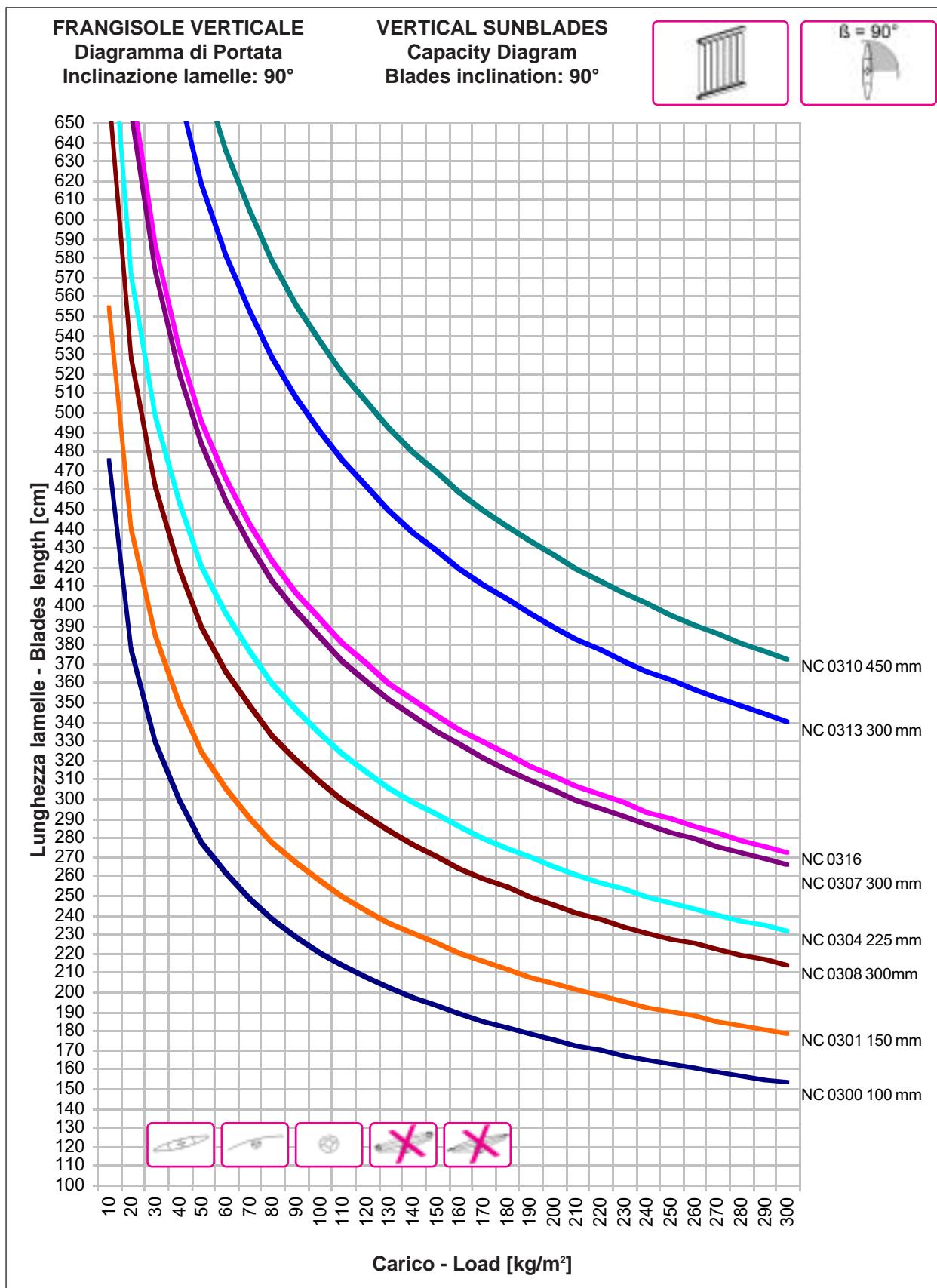












TIPOLOGIE
SOLUTIONS

- TIPOLOGIE

- SOLUTIONS

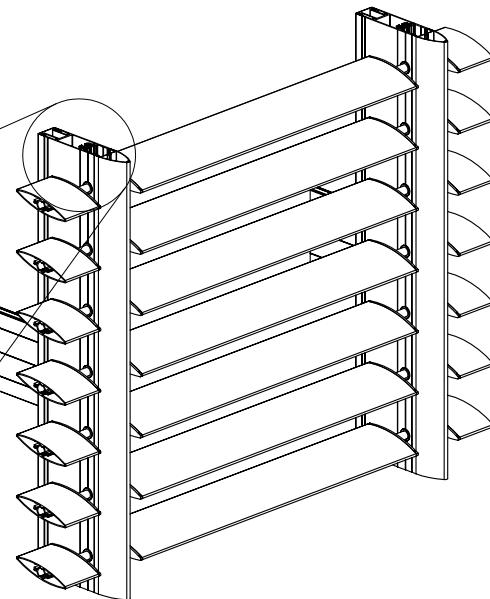
LAMELLE FRANGISOLE
 SUNBLADES

TIPO TYPE	SIGLA CODE	LARGHEZZA WIDTH	DISEGNO DRAWING	TIPOLOGIE SOLUTIONS
LAMELLE ELLITICHE ELLiptical BLADES	NC 0300	100 mm		
	NC 0301	150 mm		
	NC 0304	225 mm		
	NC 0307	300 mm		
	NC 0310	450 mm		
LAMELLA ELLITICA LEGGERA ELLIptical LIGHT BLADE	NC 0308	300 mm		
LAMELLA TRAPEZOIDALE TRAPEzoidal BLADE	NC 0313	300 mm		
LAMELLE IN VETRO	NC 0316 Ma 2521 Ma 2522	300 mm		
GLASS BLADES	NC 0316 Ma 2521 Ma 2523	300 mm		
LAMELLE IN LAMIERA LAMINATED METAL BLADES	NC 0316 Ma 2521 Ma 2524	300 mm		
	NC 0316 Ma 2521 Ma 2525	300 mm		
LAMELLE FISSE PER GRIGLIE DI AERAZIONE FIXED BLADES FOR AERATION GRILLS	G 0899	61 mm		
	G 0901	102 mm		

PER LE SPECIFICHE TIPOLOGIE VEDI TAVOLE DA 02 A 05 - SPECIFIC INFORMATION ABOUT THE SOLUTIONS ON TABLES 02 TO 05

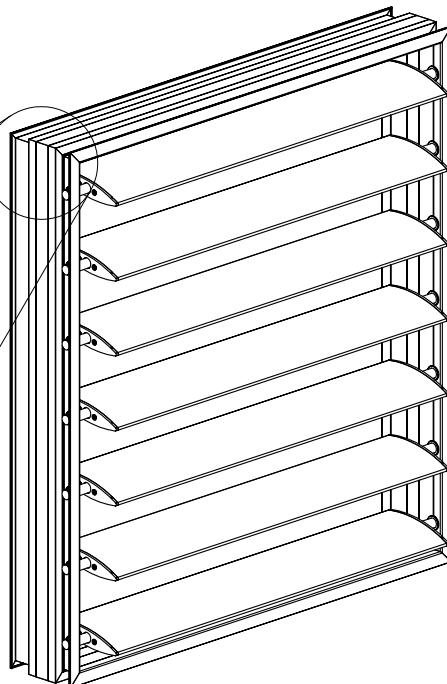
TIPOLOGIE ORIZZONTALI
HORIZONTAL SOLUTIONS

D1



Frangisole orizzontale. Angoli prestabili e variabili. Collegabile alle facciate continue Metra Poliedra-sky 50 ed alla muratura.
Horizontal sunblade. Pre-set and variable orientation. Can be combined to the Metra Poliedra-sky 50 curtain wall and to the wall.

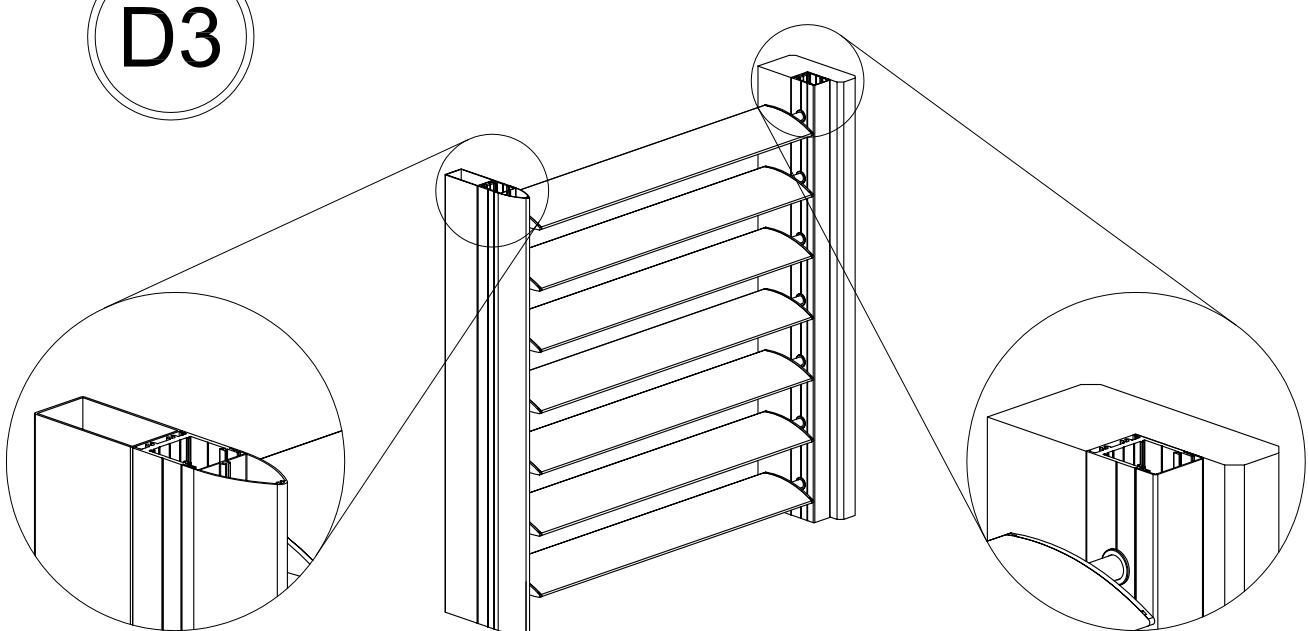
D2



Frangisole orizzontale a cellule. Angoli prestabili e variabili. Collegabile alle facciate continue Metra ed alla muratura.
Horizontal cell-type sunblade. Pre-set and variable orientation.
Can be combined to the Metra Poliedra-sky 50 curtain wall and to the wall.

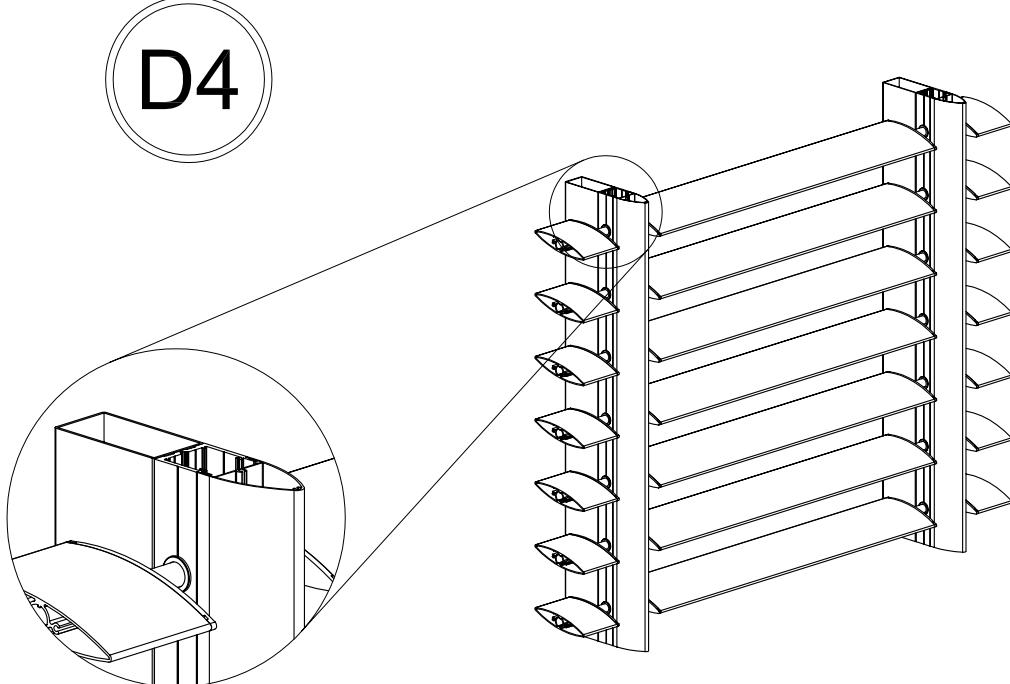
TIPOLOGIE ORIZZONTALI
HORIZONTAL SOLUTIONS

D3



Frangisole orizzontale. Angoli prestabili e variabili. Collegabile frontalmente e lateralmente alla muratura ed alle sottostrutture in acciaio.
Horizontal sunblade. Pre-set and variable orientation. Can be fixed by front and lateral application to a steel understructure and to the wall.

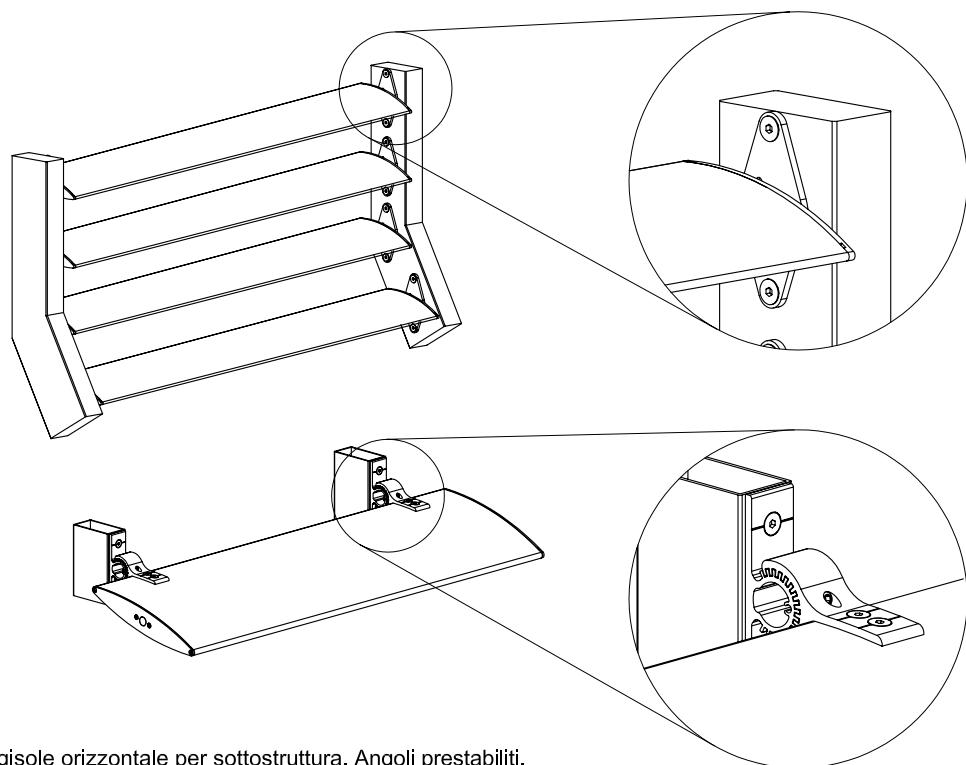
D4



Frangisole orizzontale per sottostruttura. Angoli prestabili e variabili.
Horizontal sunblade for understructure. Pre-set and variable orientation.

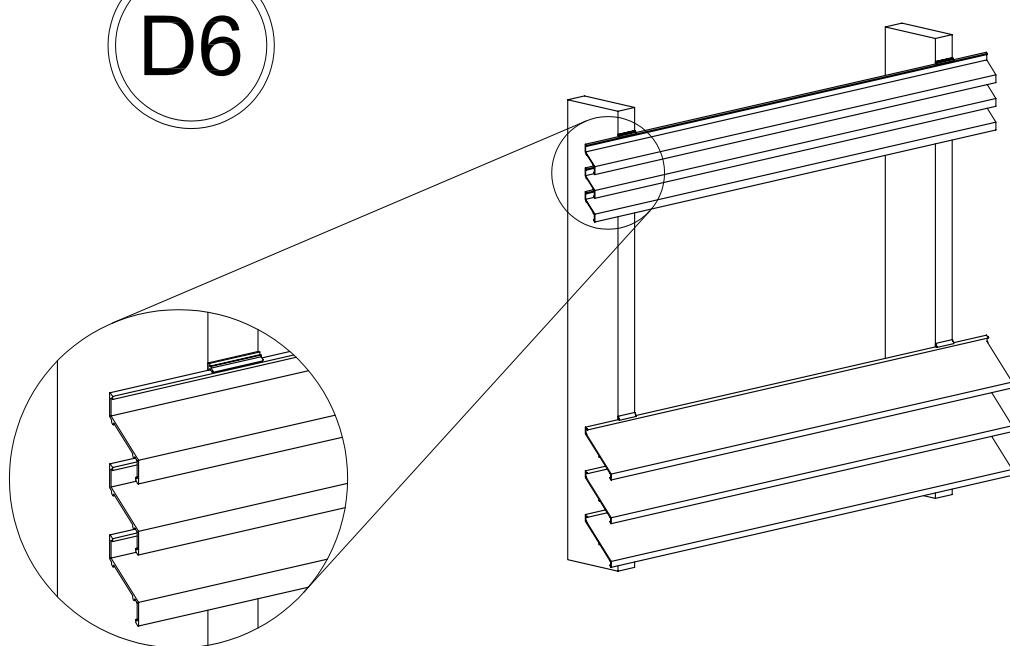
TIPOLOGIE ORIZZONTALI
HORIZONTAL SOLUTIONS

D5



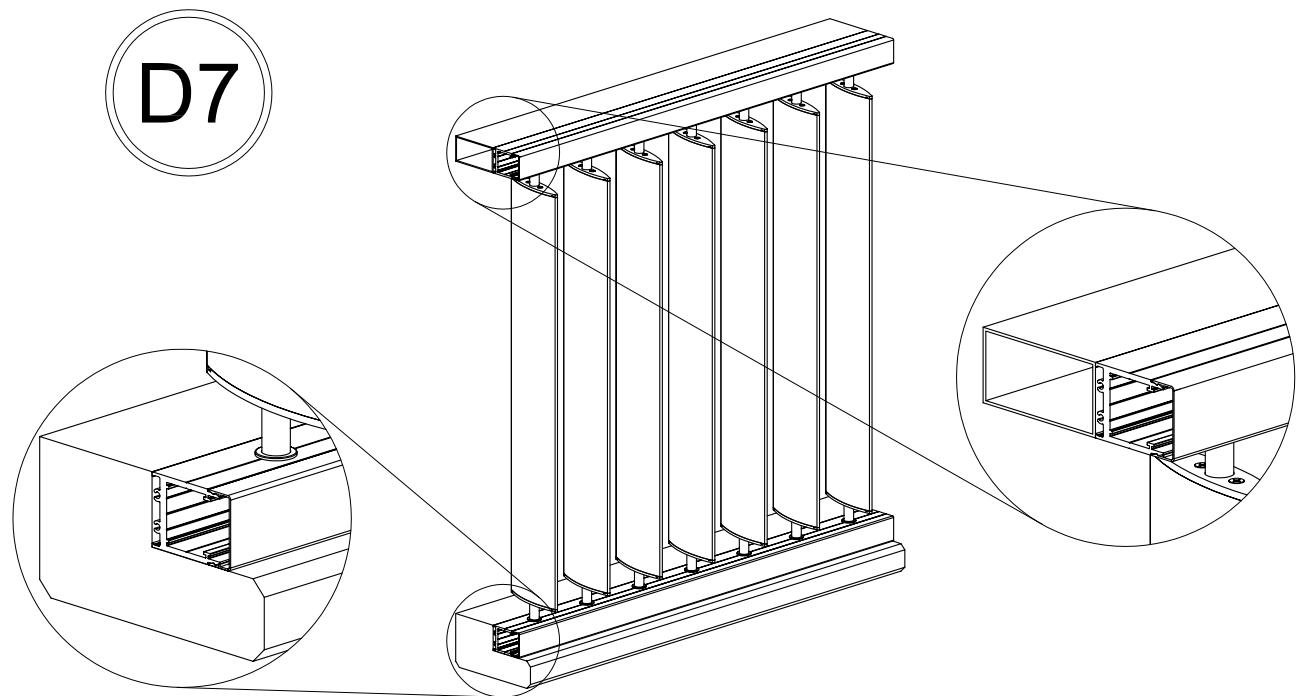
Frangisole orizzontale per sottostruttura. Angoli prestabiliti.
Horizontal sunblade for understructure. Pre-set orientation.

D6

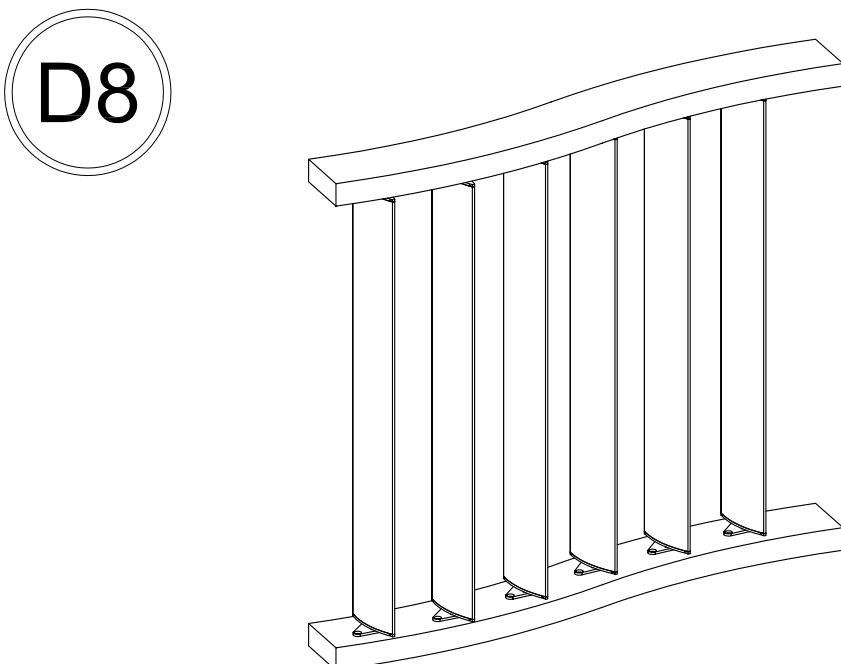


Frangisole orizzontale fisso per sottostruttura.
Horizontal fixed sunblade for understructure.

**TIPOLOGIE VERTICALI
VERTICAL SOLUTIONS**

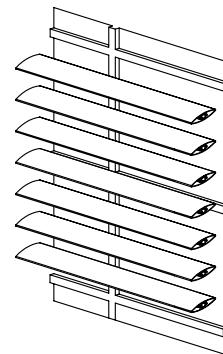
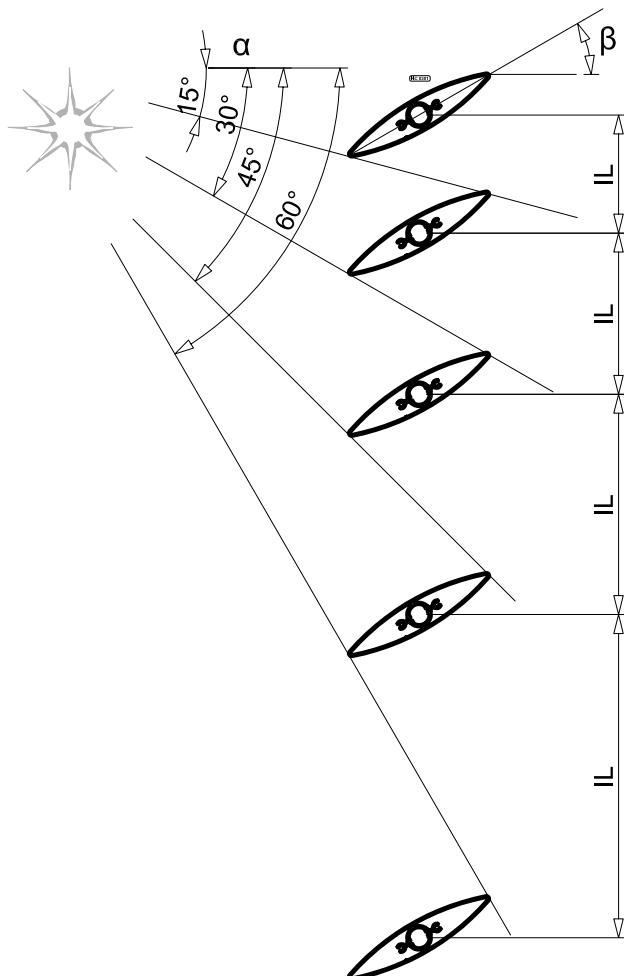


Frangisole verticale. Angoli prestabili e variabili. Collegabile frontal e lateralmente alla muratura ed alle sottostrutture in acciaio.
Vertical sunblade. Pre-set and variable orientation. Can be fixed by front an lateral application to a steel understructure and to the wall.



Frangisole verticale per sottostruttura. Angoli prestabili.
Vertical sunblade for understructure. Pre-set orientation.

FRANGISOLE ORIZZONTALE - ANGOLI PRESTABILITI HORIZONTAL SUNBLADE - PRE-SET ANGLES



IMPORTANTE:

Determinare l'angolo **α** considerando:

- 1- Il solstizio estivo ed invernale (altezza solare massima e minima)
- 2- Latitudine dell'edificio.

IMPORTANT:

Determinate the angle **α** considering:

- 1- Summer and winter solstice (maximum and minimum solar height)
- 2- Latitude of the building.

IL = INTERASSE LAMELLE (mm)
IL = BLADES INTERAXIS (mm)

LAMELLA BLADE	SOLE SUN α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0300 100 mm	15°	IL =	33	53	73	89	97
	30°	IL =	59	82	99	111	113
	45°	IL =	101	122	135	140	139
	60°	IL =	174	192	199	192	173

LAMELLA BLADE	SOLE SUN α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0307 NC 0313 300 mm	15°	IL =	90	151	218	265	295
	30°	IL =	177	245	298	331	342
	45°	IL =	302	367	407	421	407
	60°	IL =	521	578	598	578	521

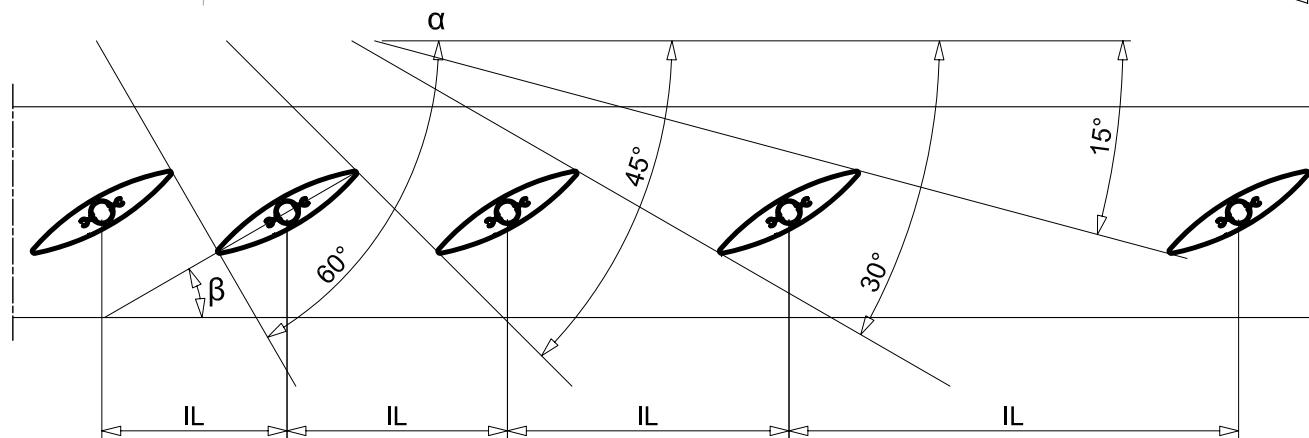
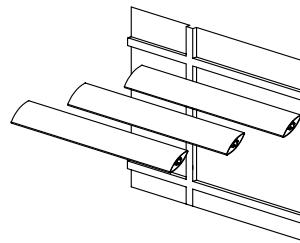
LAMELLA BLADE	SOLE SUN α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0301 150 mm	15°	IL =	44	78	109	133	147
	30°	IL =	88	122	149	165	171
	45°	IL =	151	183	203	210	203
	60°	IL =	260	289	299	289	260

LAMELLA BLADE	SOLE SUN α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0308 300 mm	15°	IL =	83	155	219	268	299
	30°	IL =	173	244	299	333	345
	45°	IL =	300	367	409	423	409
	60°	IL =	519	579	599	579	519

LAMELLA BLADE	SOLE SUN α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0304 225 mm	15°	IL =	69	118	163	198	220
	30°	IL =	133	148	223	247	255
	45°	IL =	227	275	305	315	305
	60°	IL =	391	433	448	433	391

LAMELLA BLADE	SOLE SUN α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0310 450 mm	15°	IL =	129	234	328	400	445
	30°	IL =	263	368	448	498	515
	45°	IL =	454	550	612	633	612
	60°	IL =	781	868	898	868	781

FRANGISOLE ORIZZONTALE - ANGOLI PRESTABILITI
HORIZONTAL SUNBLADE - PRE-SET ANGLES



IMPORTANTE:

Determinare l'angolo **Α** considerando:
 1- Il solstizio estivo ed invernale
 (altezza solare massima e minima)
 2- Latitudine dell'edificio.

IMPORTANT:

Determinate the angle **Α** considering:
 1- Summer and winter solstice
 (maximum and minimum solar height)
 2- Latitude of the building.

IL = INTERASSE LAMELLE (mm)
 IL = BLADES INTERAXIS (mm)

LAMELLA BLADE	SOLE SUN Α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0300 100 mm	15°	IL =	-	203	279	337	373
	30°	IL =	-	144	174	192	199
	45°	IL =	-	123	135	140	135
	60°	IL =	-	110	113	110	99

LAMELLA BLADE	SOLE SUN Α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0307 NC 0313 300 mm	15°	IL =	-	605	834	1010	1120
	30°	IL =	-	430	521	578	598
	45°	IL =	-	367	407	421	407
	60°	IL =	-	331	342	331	300

LAMELLA BLADE	SOLE SUN Α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0301 150 mm	15°	IL =	-	300	416	504	560
	30°	IL =	-	213	260	289	299
	45°	IL =	-	183	203	210	203
	60°	IL =	-	166	171	165	149

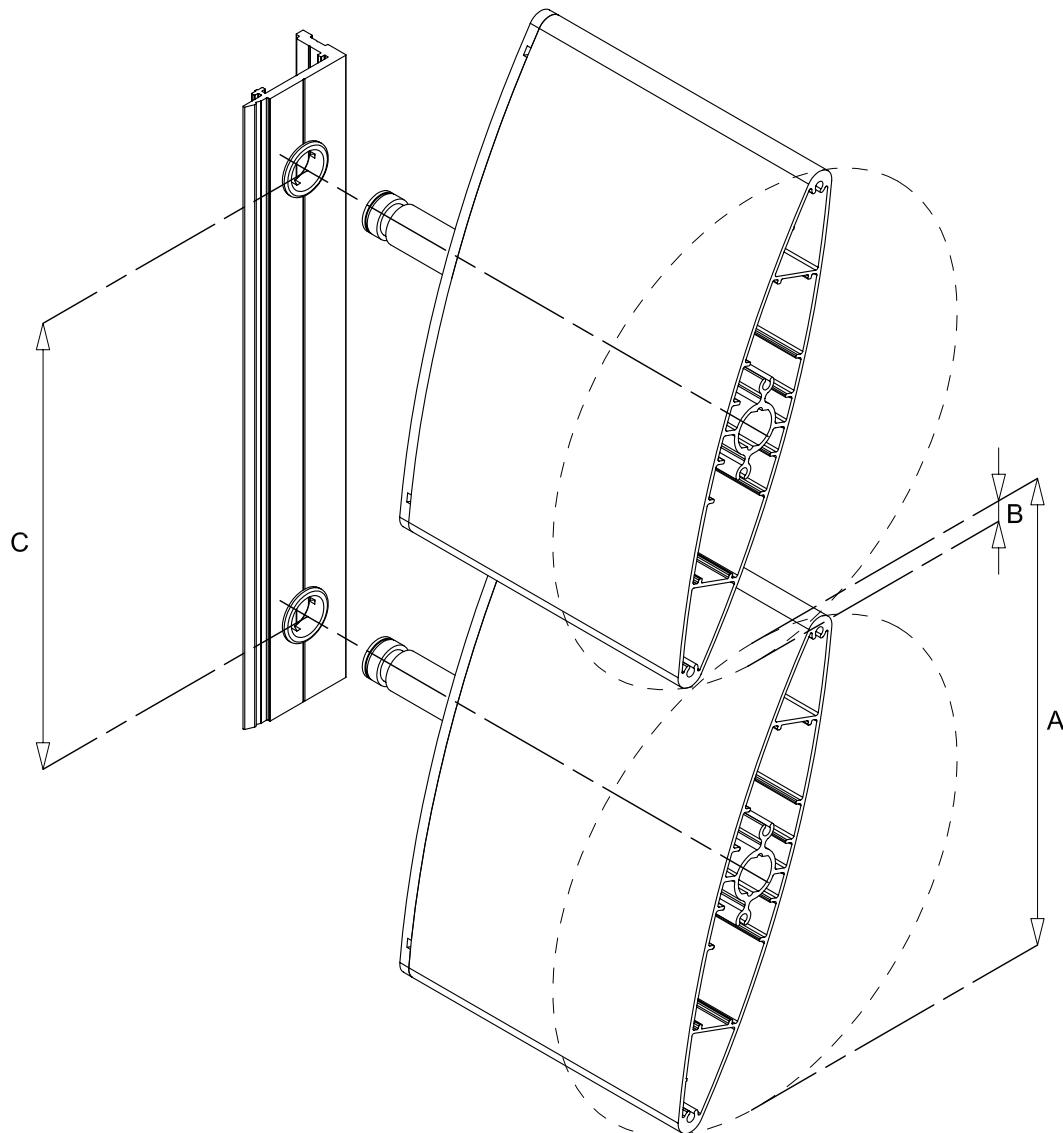
LAMELLA BLADE	SOLE SUN Α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0308 300 mm	15°	IL =	-	591	825	1005	1119
	30°	IL =	-	427	520	579	599
	45°	IL =	-	367	409	423	410
	60°	IL =	-	333	345	334	301

LAMELLA BLADE	SOLE SUN Α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0304 225 mm	15°	IL =	-	460	629	759	840
	30°	IL =	-	324	391	433	448
	45°	IL =	-	275	305	315	305
	60°	IL =	-	247	255	247	223

LAMELLA BLADE	SOLE SUN Α	IL	β LAMELLA BLADE				
			0°	15°	30°	45°	60°
NC 0310 450 mm	15°	IL =	-	895	1244	1512	1680
	30°	IL =	-	642	781	868	898
	45°	IL =	-	550	612	633	612
	60°	IL =	-	498	515	498	448

FRANGISOLE ORIZZONTALE - ANGOLI VARIABILI
HORIZONTAL SUNBLADE - VARIABLE ANGLES

SORMONTO LAMELLE - INTERASSE FORATURA
 BLADES OVERLAP - HOLES INTERAXIS



LE LAMELLE DEVONO SORMONTARE COME MINIMO 10 mm
 THE BLADES MUST HAVE MINIMUM 10 mm OVERLAP

FORMULA PER IL CALCOLO DELL' INTERASSE FORI:
 CALCULATION FOR HOLES INTERAXIS:

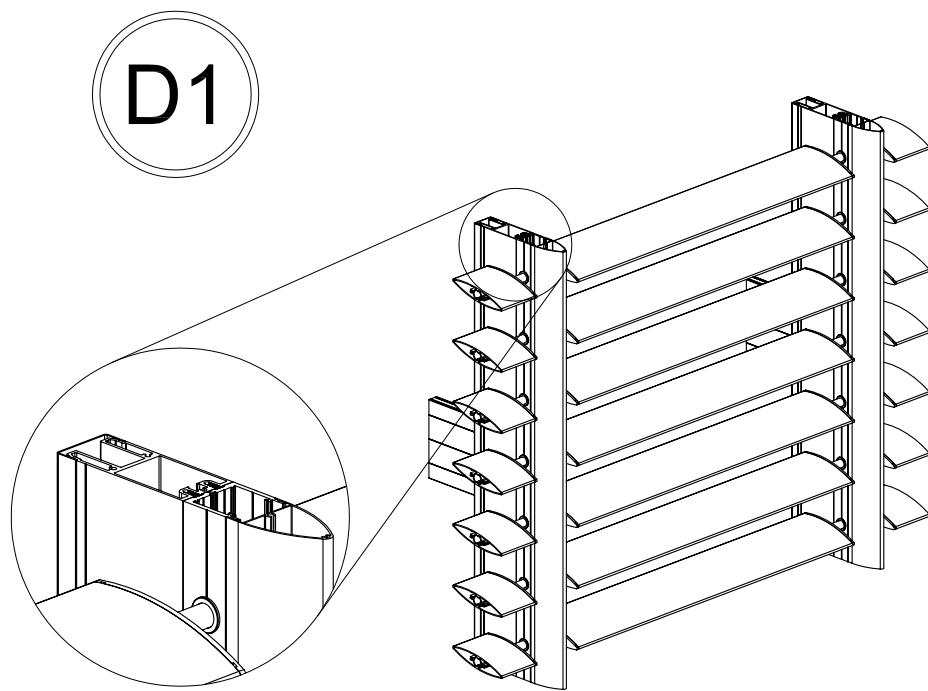
$$C = A - B$$

A	LARGHEZZA LAMELLA BLADE WIDTH	B	SORMONTO MINIMO MINIMUM OVERLAP	C	INTERASSE FORI HOLES INTERAXIS
NC 0300	100 mm	10 mm		90 mm	
NC 0301	150 mm	10 mm		140 mm	
NC 0304	225 mm	10 mm		215 mm	
NC 0307 - NC 0308 - NC 0313	300 mm	10 mm		290 mm	
VETRO - GLASS - NC 0316	320 mm	10 mm		310 mm	
LAMIERA - METAL - NC 0316	340 mm	10 mm		330 mm	
NC 0310	450 mm	10 mm		440 mm	

FRANGISOLE ORIZZONTALE
SEZIONI
HORIZONTAL SUNBLADE
SECTIONS

- GRUPPI D1 - D2 - D3 - D4 -D5 - D6
- SEZIONI PRINCIPALI IN SCALA 1 : 2

- GROUPS D1 - D2 - D3 - D4 -D5 - D6
- MAIN SECTIONS SCALE 1 : 2

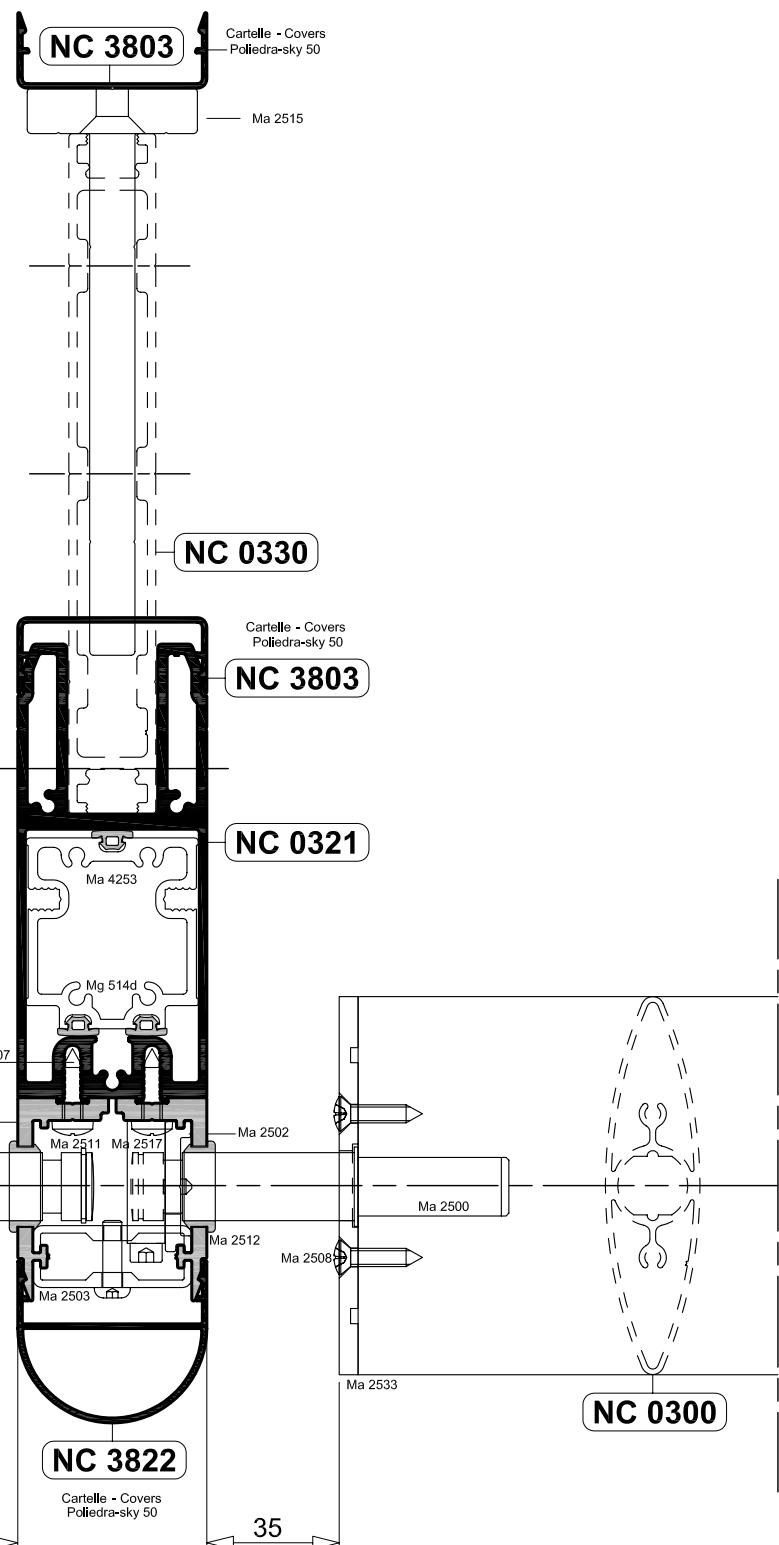
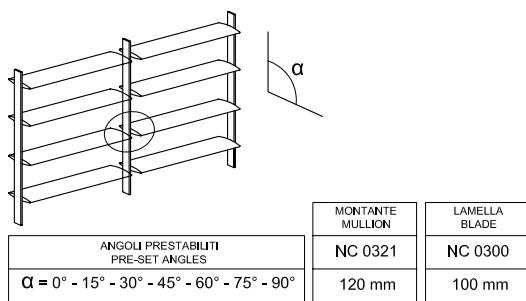


Frangisole orizzontale. Angoli prestabili e variabili. Collegabile alle facciate continue Metra Poliedra-sky 50 ed alla muratura.
Horizontal sunblade. Pre-set and variable orientation. Can be combined to the Metra Poliedra-sky 50 curtain wall and to the wall.

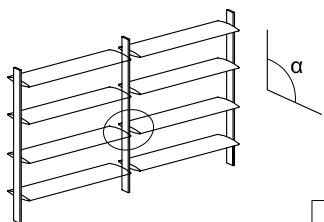
FRANGISOLE ORIZZONTALE SEZIONI HORIZONTAL SUNBLADE SECTIONS

- GRUPPO D1
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

- GROUP D1
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS

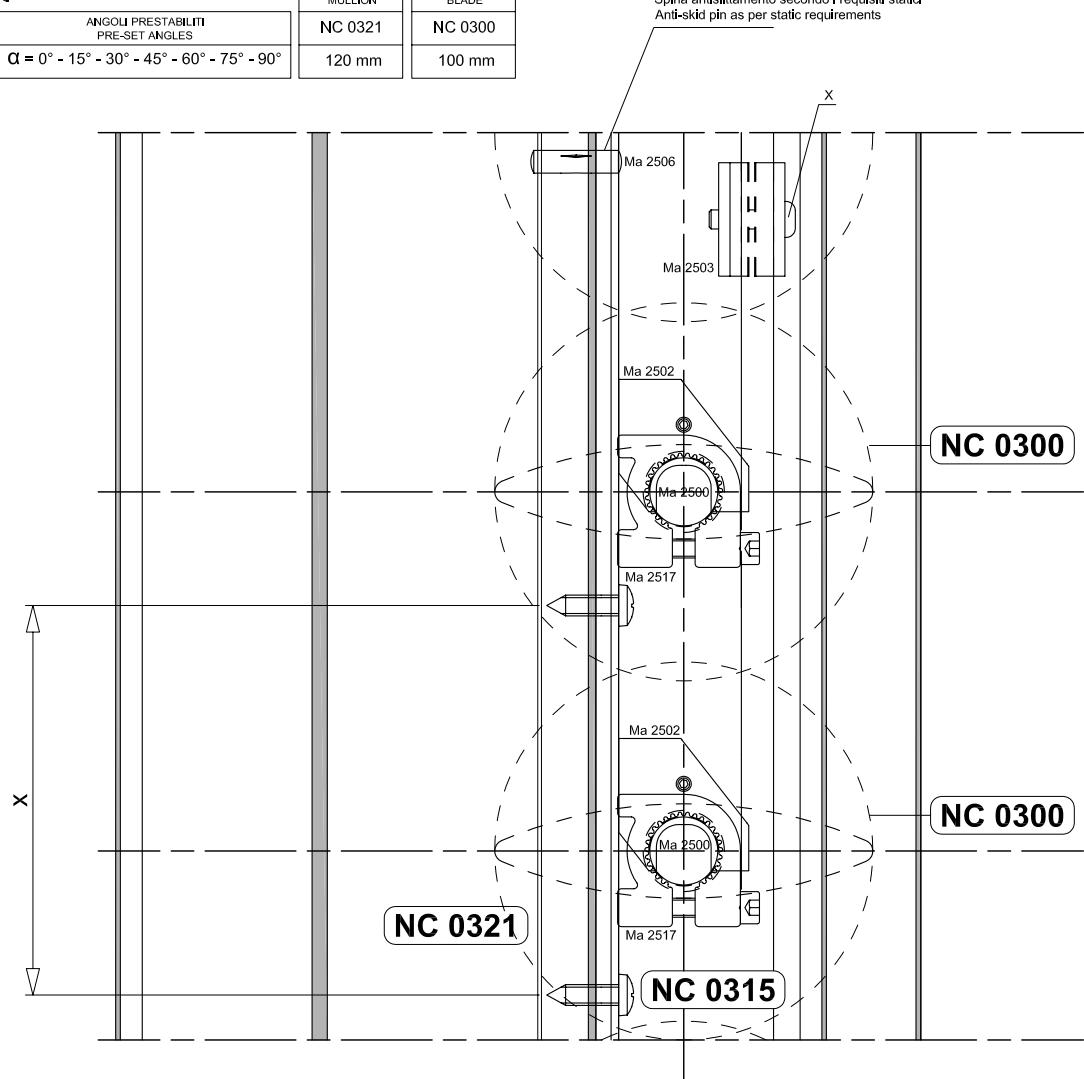

 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

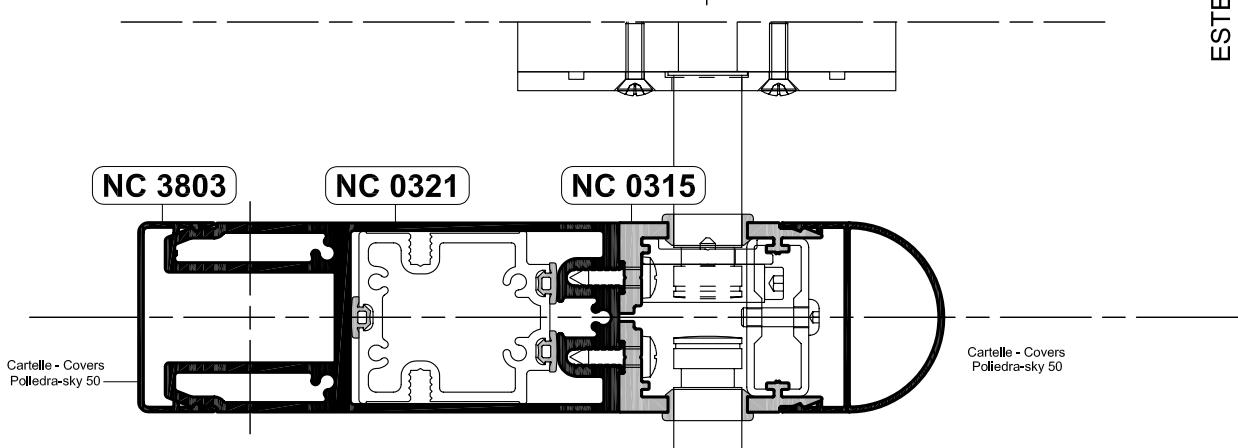


ANGOLI PRESTABILITI PRE-SET ANGLES	MONTANTE MULLION	LAMELLA BLADE
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	NC 0321	NC 0300
	120 mm	100 mm

Spina antislittamento secondo i requisiti statici
Anti-skid pin as per static requirements



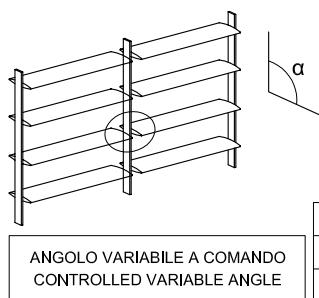
ESTERNO
OUTSIDE



Cartelle - Covers
Poliedra-sky 50

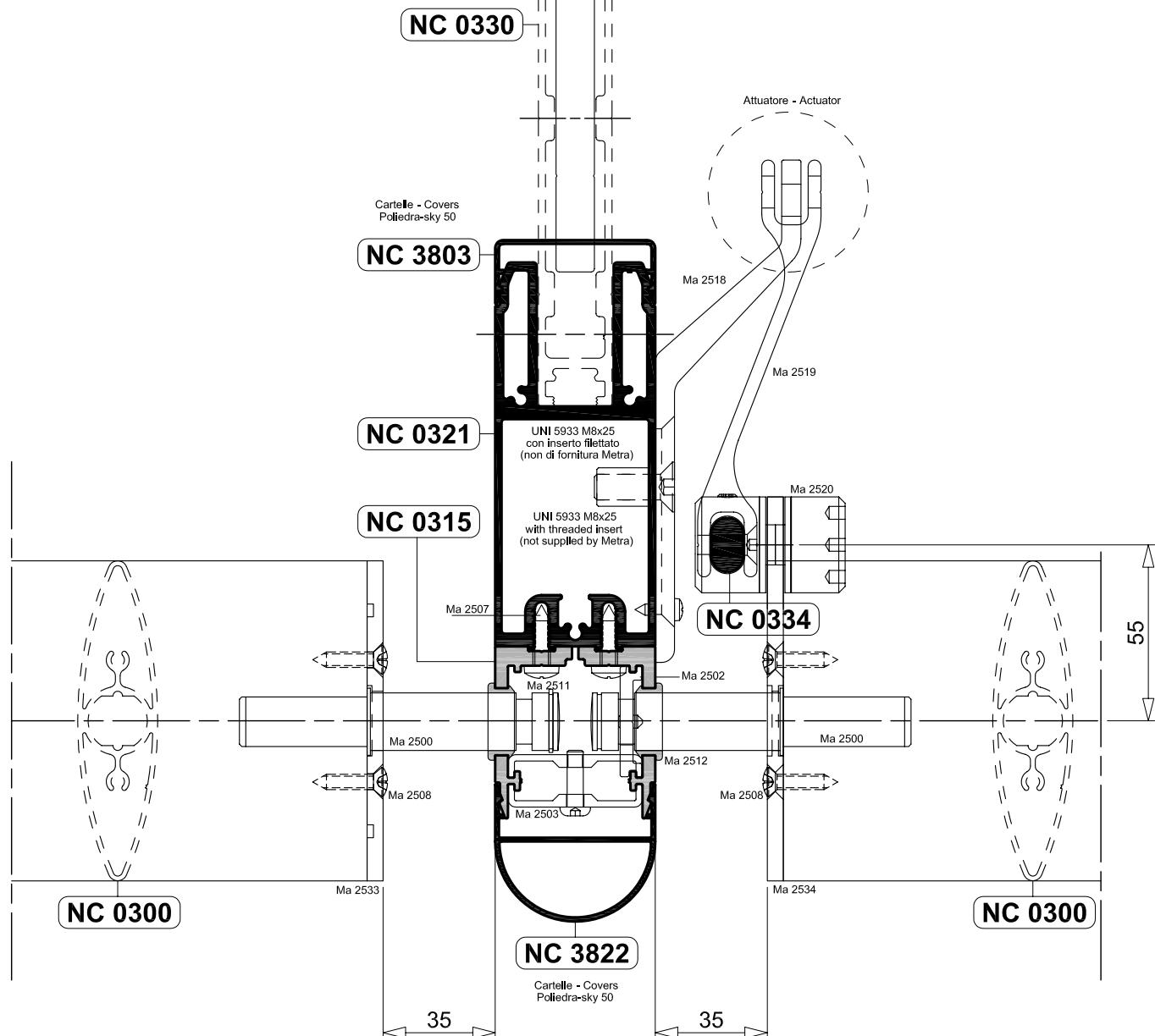
x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

SCALA
SCALE 1:2



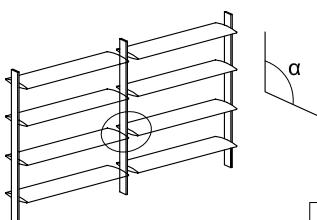
ANGolo Variabile a Comando
Controlled Variable Angle

MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0300
120 mm	100 mm



ESTERNO
OUTSIDE

SCALA
SCALE 1:2



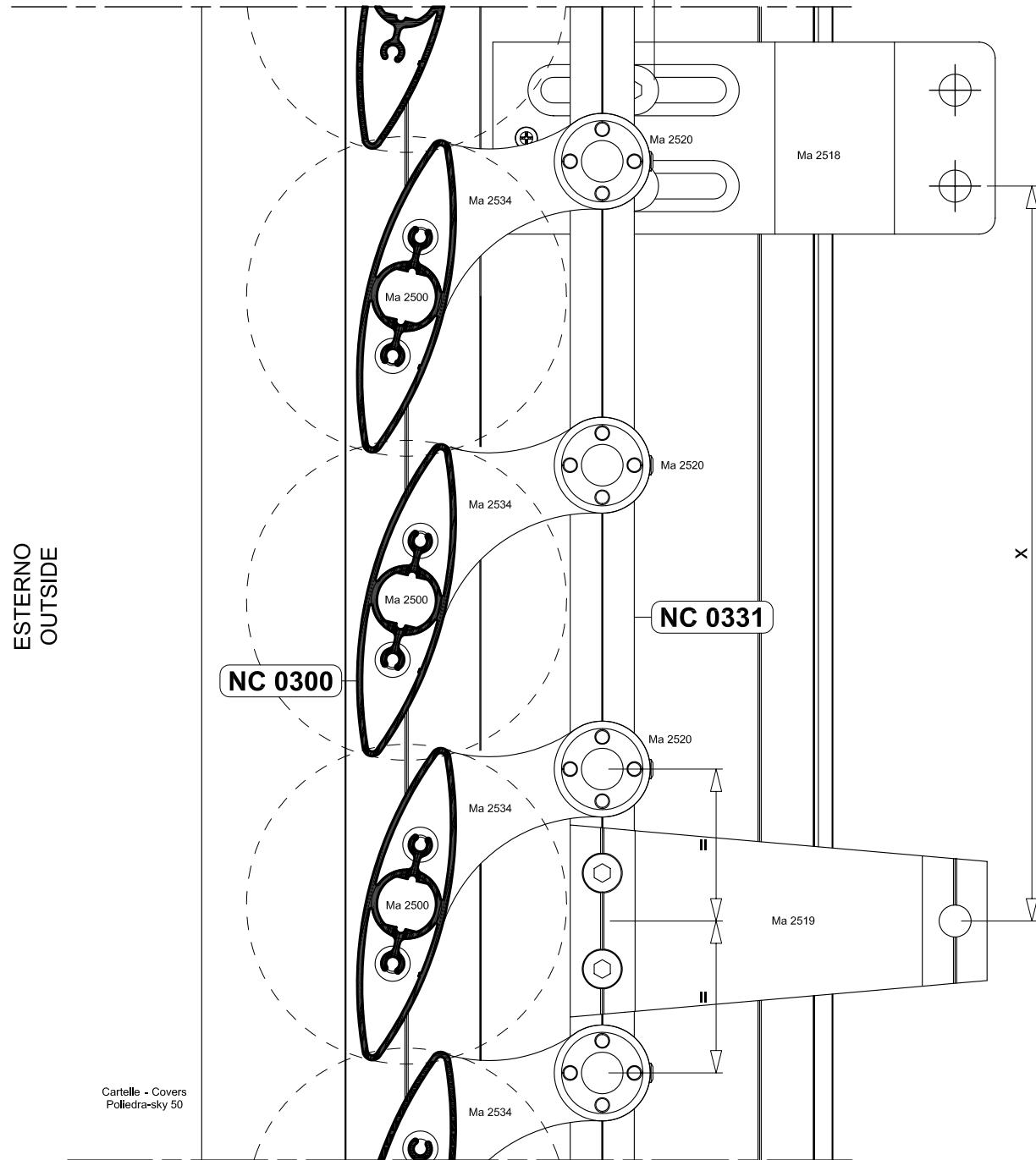
**ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE**

MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0300

120 mm 100 mm

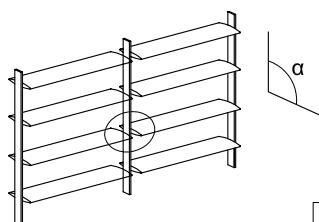
UNI 5933 M8x25
con Inserto flettato
(non di fornitura Metra)

UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)



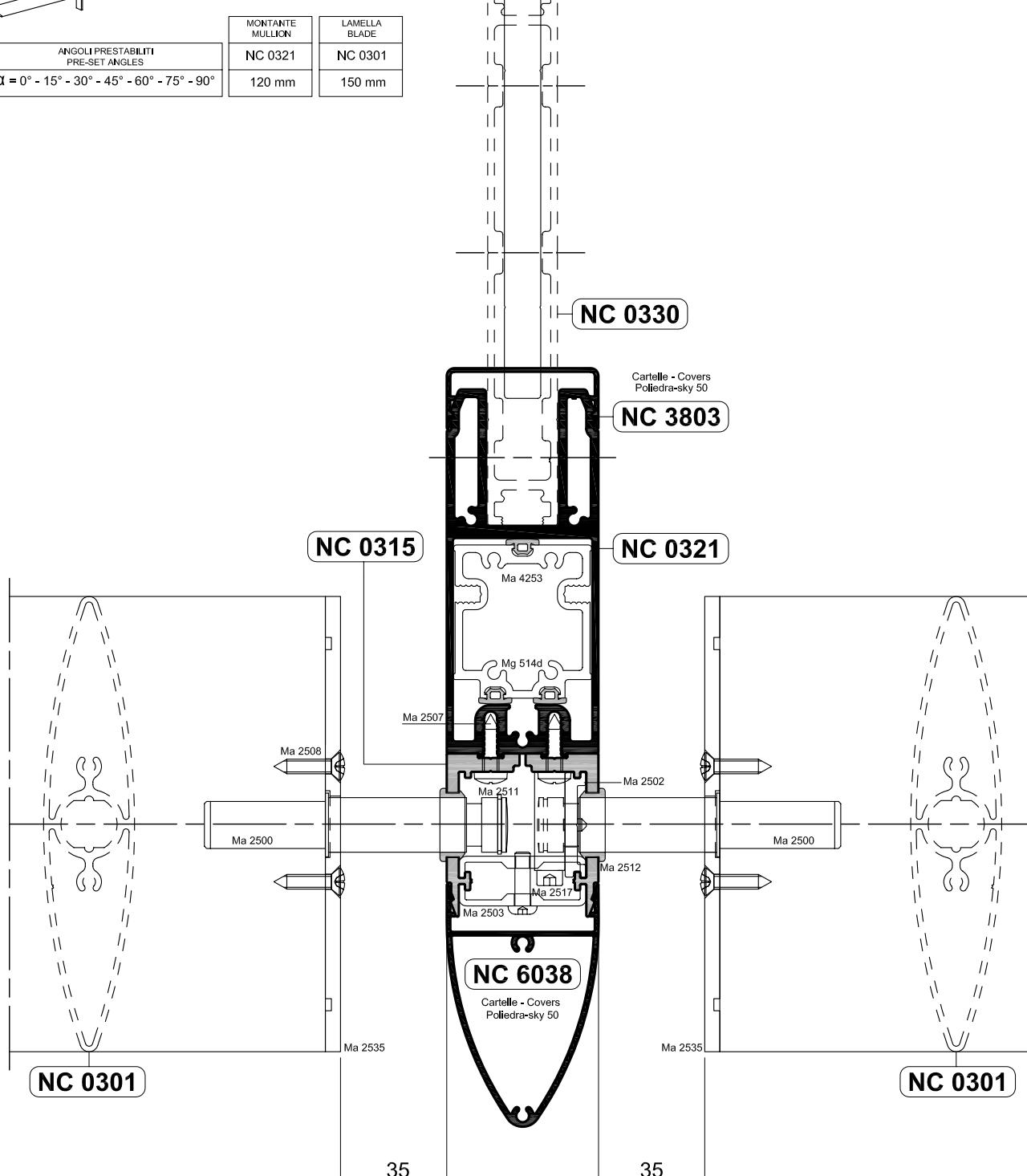
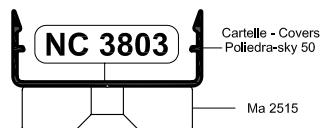
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

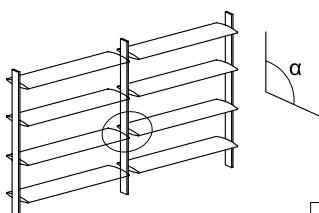


ANGOLI PRESTABILITI
PRE-SET ANGLES
 $\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$

MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0301
120 mm	150 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

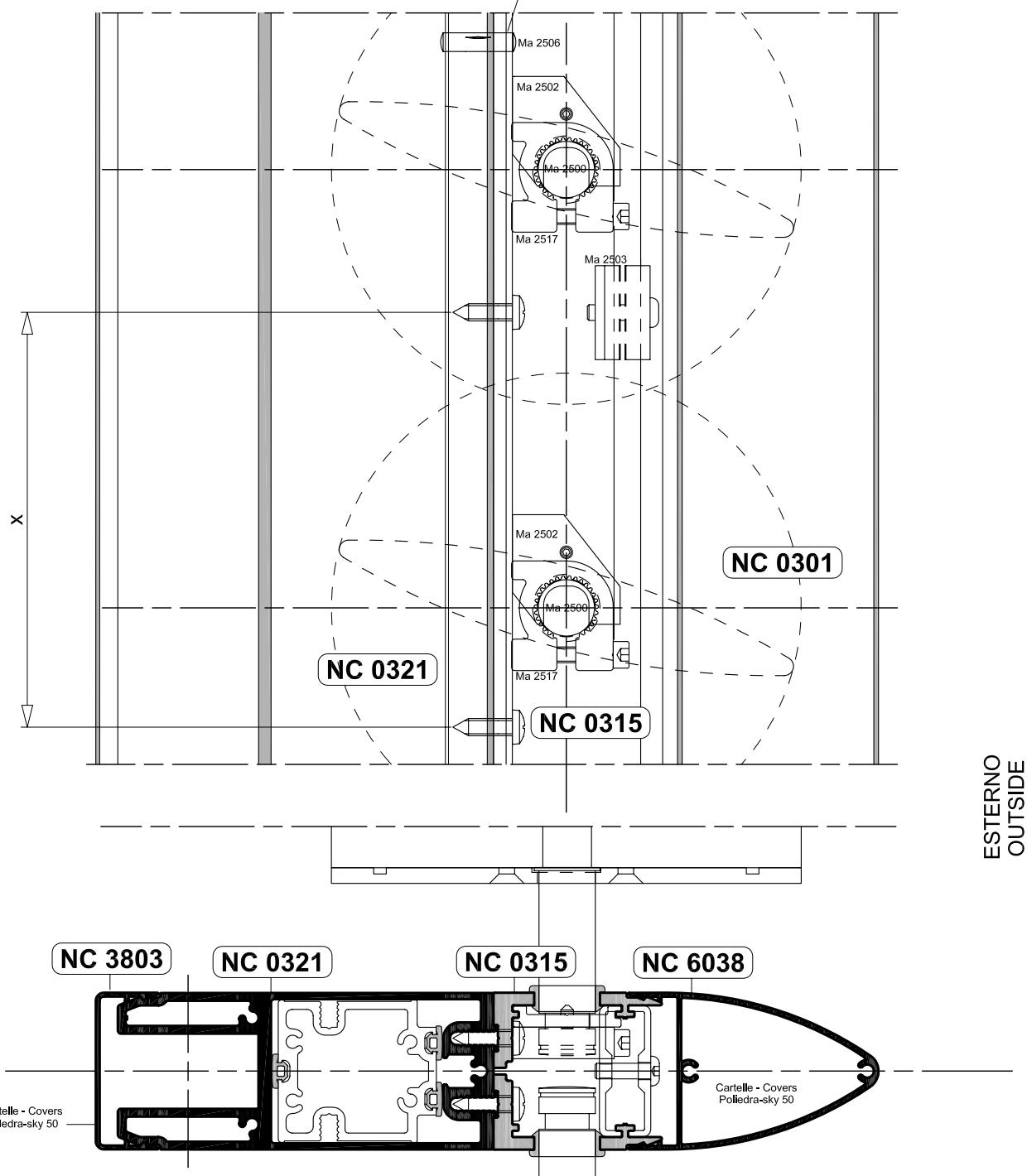


**ANGOLI PRESTABILITI
PRE-SET ANGLES**

$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$

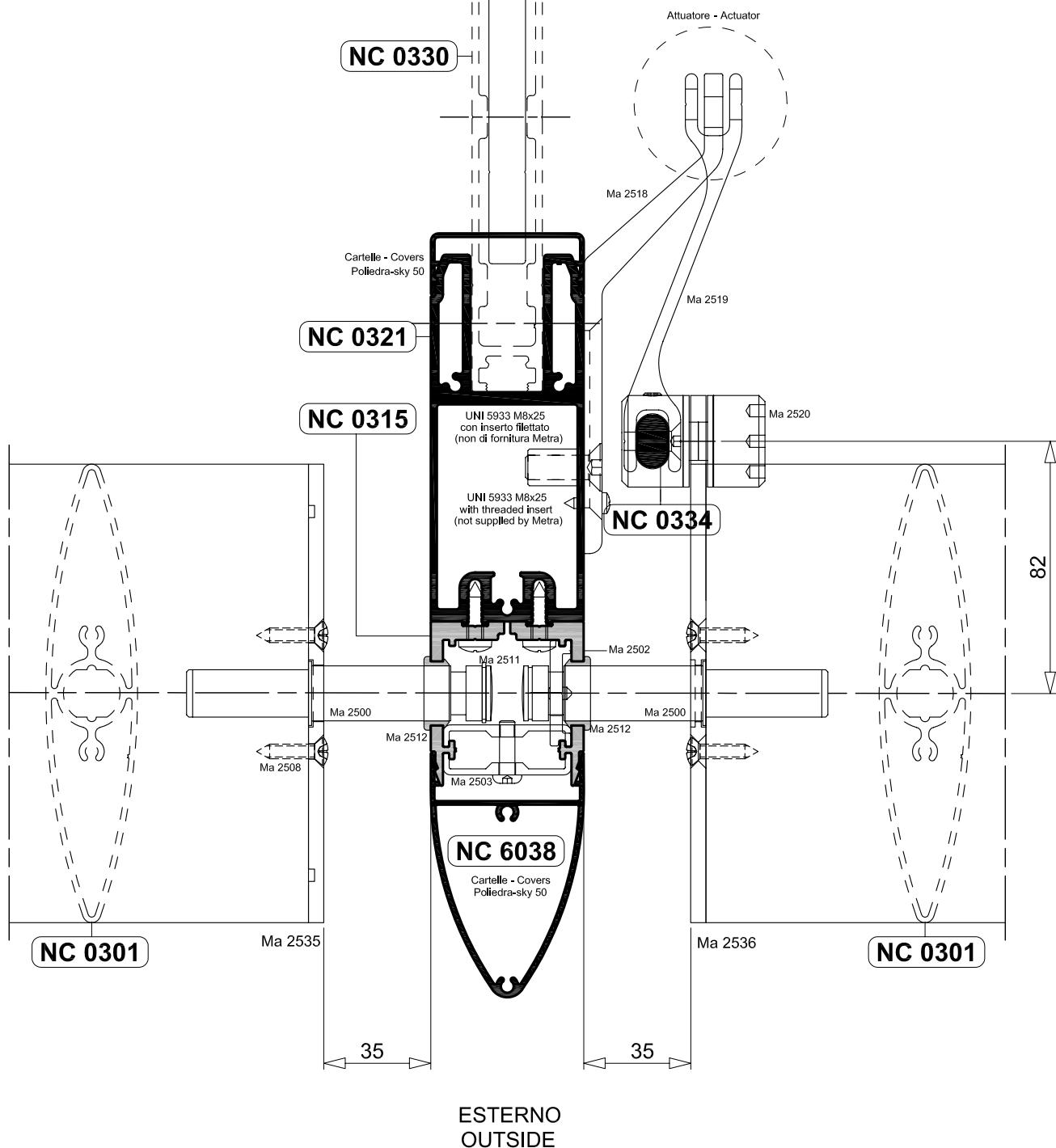
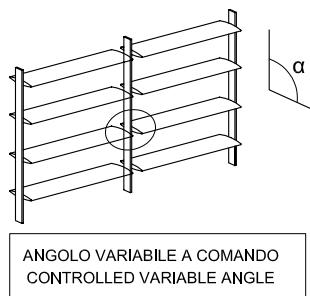
MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0301
120 mm	150 mm

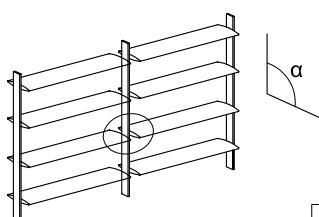
Spina antislittamento secondo i requisiti statici
Anti-skid pin as per static requirements



x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

SCALA
SCALE 1:2


 SCALA 1:2
SCALE 1:2

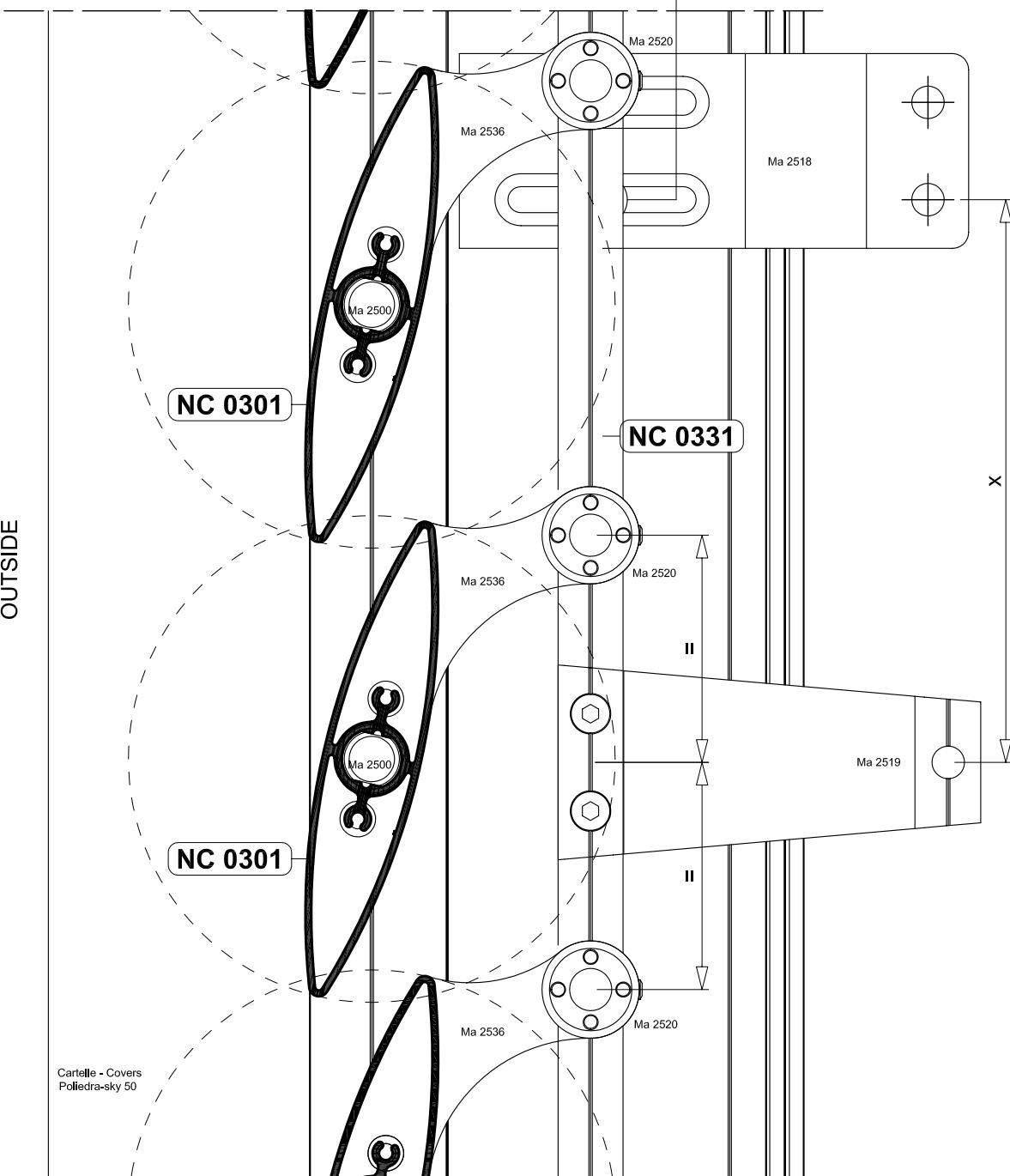


ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0320 120 mm	NC 0301 150 mm

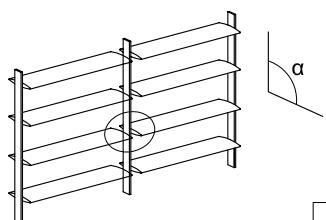
UNI 5933 M8x25
con Inserto filettato
(non di fornitura Metra) UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)

ESTERNO
OUTSIDE



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2



ANGOLI PRESTABILITI
PRE-SET ANGLES

$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$

MONTANTE
MULLION

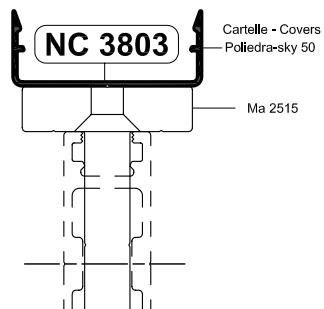
NC 0321

120 mm

LAMELLA
BLADE

NC 0304

225 mm



NC 3803

Cartelle - Covers
Poliedra-sky 50

Ma 2515

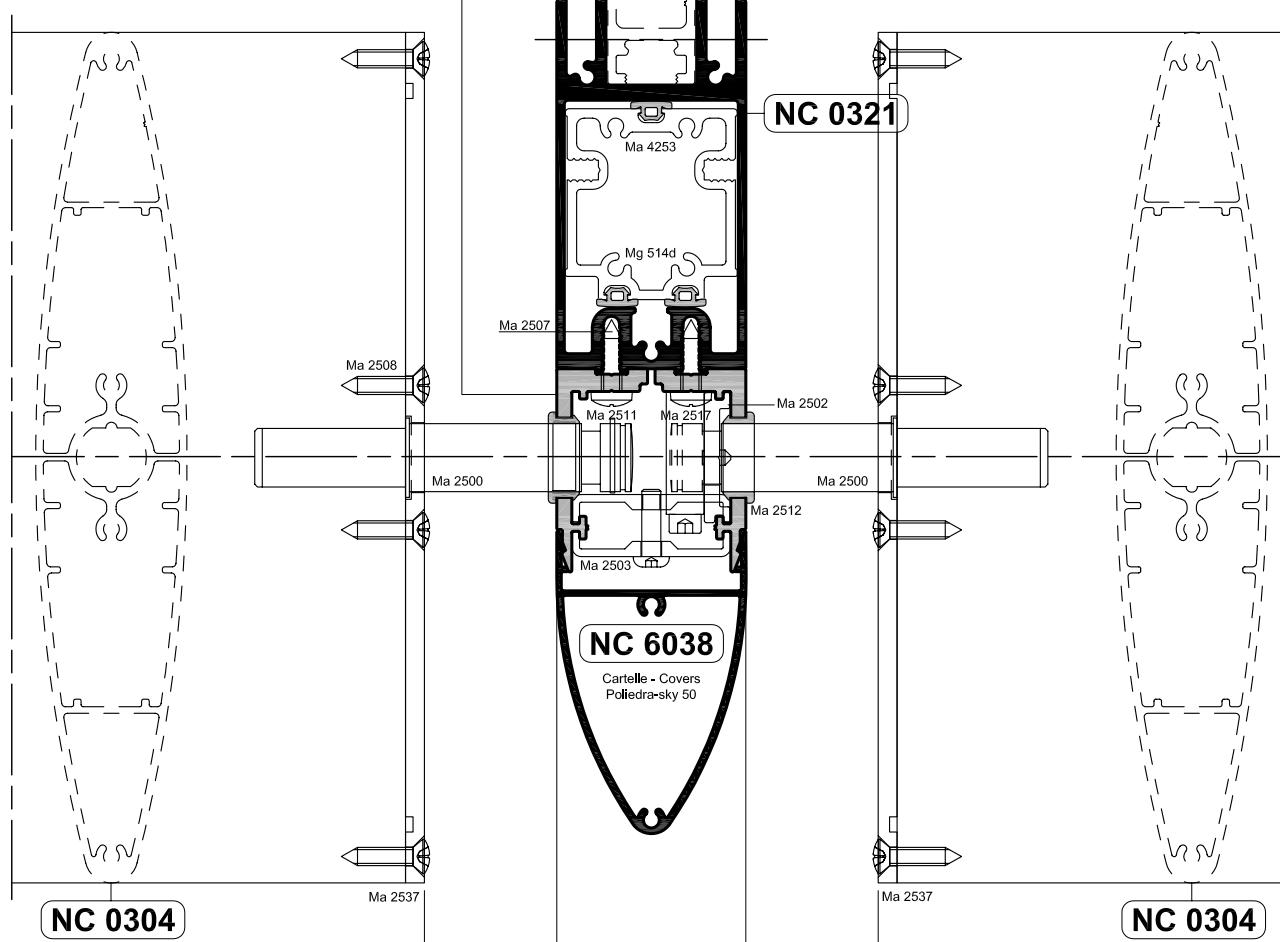
NC 0330

NC 0315

Cartelle - Covers
Poliedra-sky 50

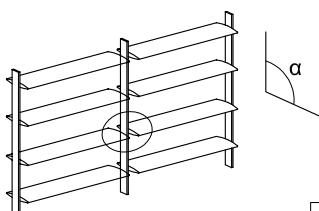
NC 3803

NC 0321



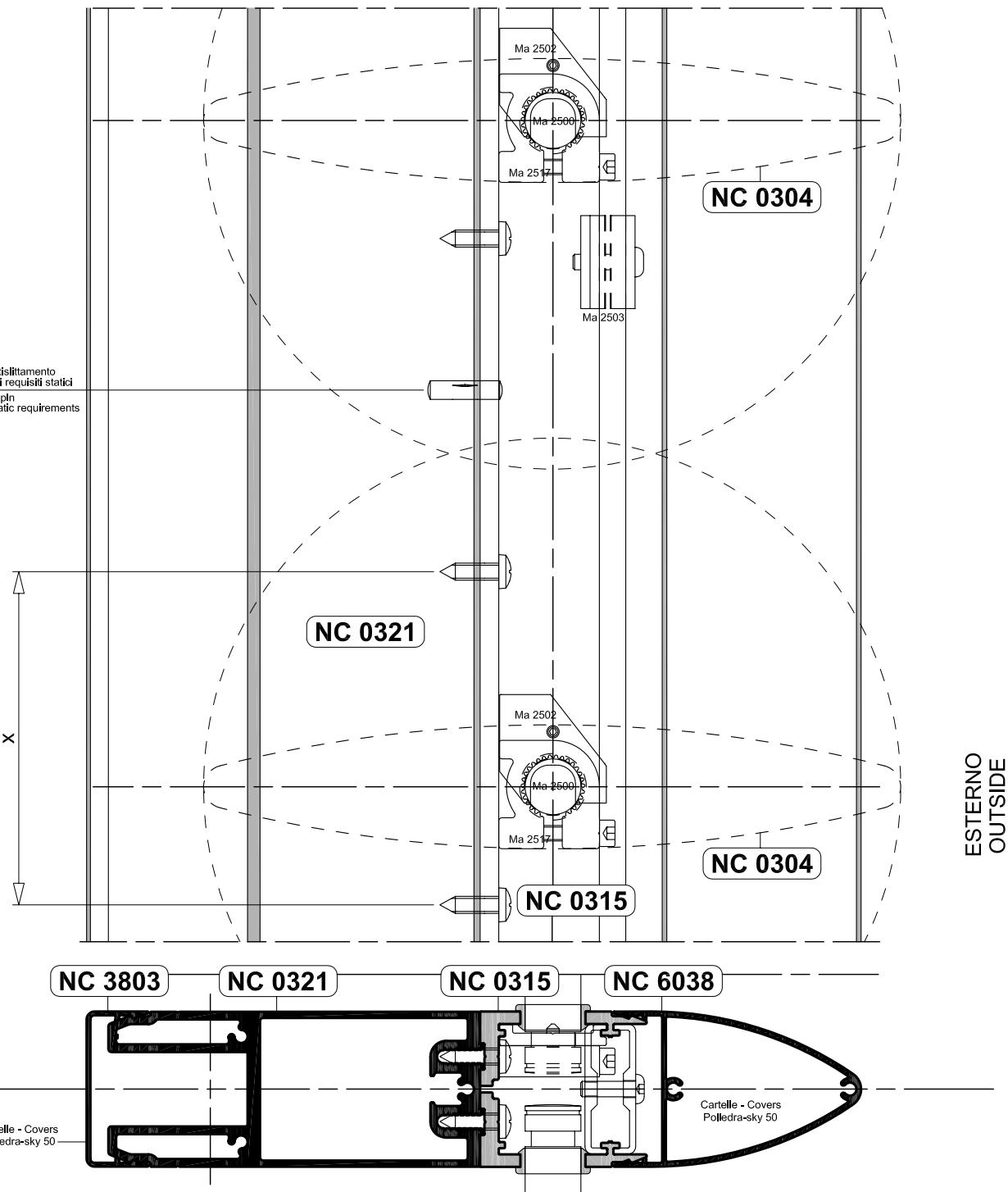
ESTERNO
OUTSIDE

SCALA 1:2
SCALE 1:2



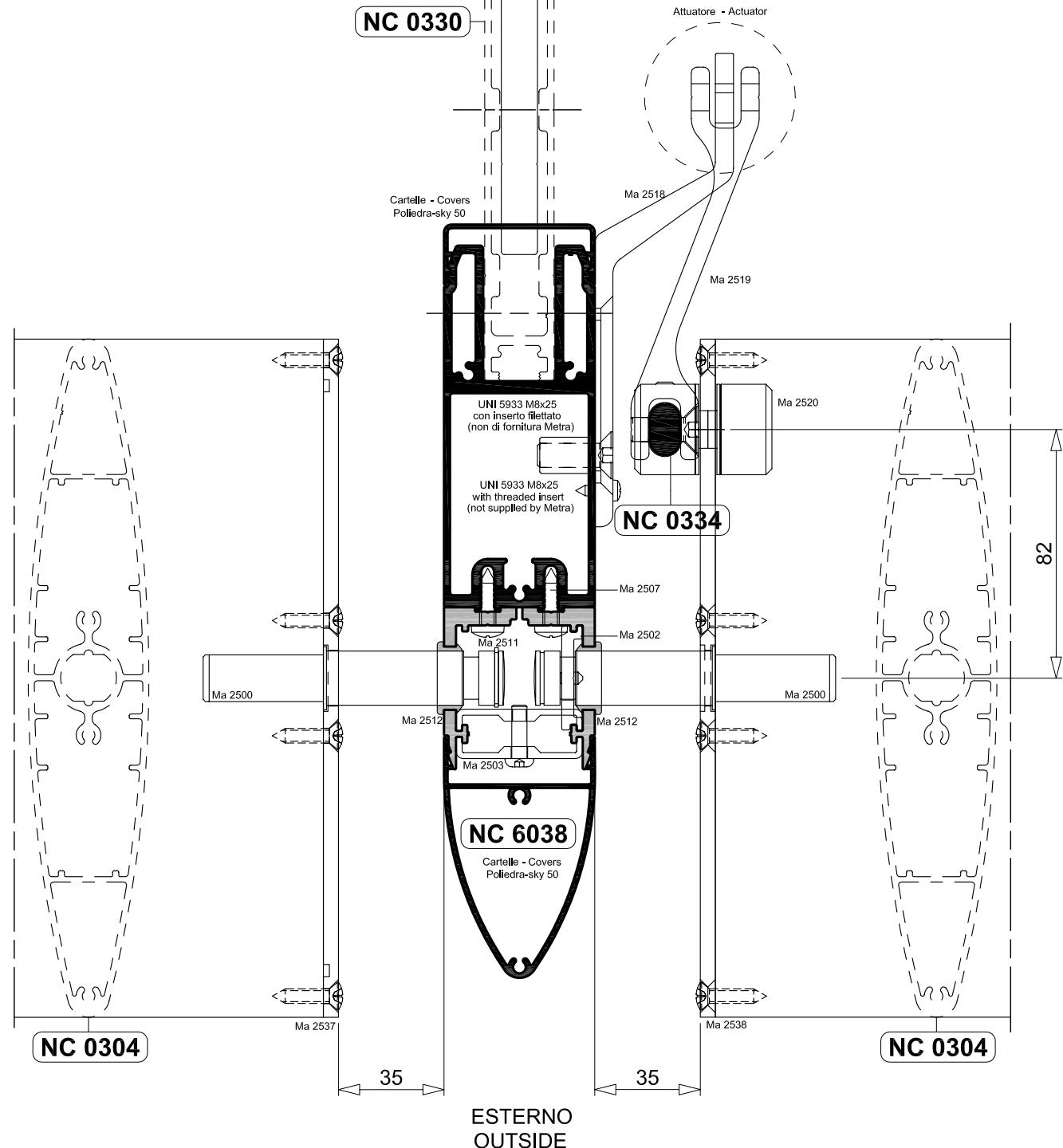
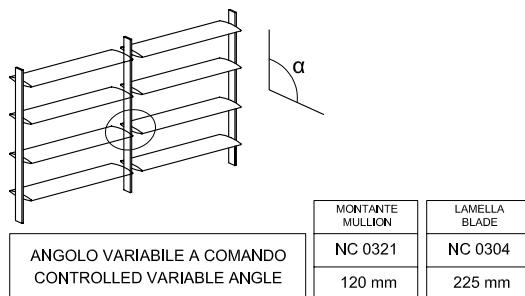
ANGOLI PRESTABILITI PRE-SET ANGLES	MONTANTE MULLION NC 0321	LAMELLA BLADE NC 0304
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	120 mm	225 mm

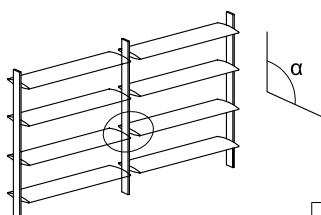
Spina antislittamento
secondo i requisiti statici
Anti-skid pin
as per static requirements



x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

SCALA
SCALE 1:2

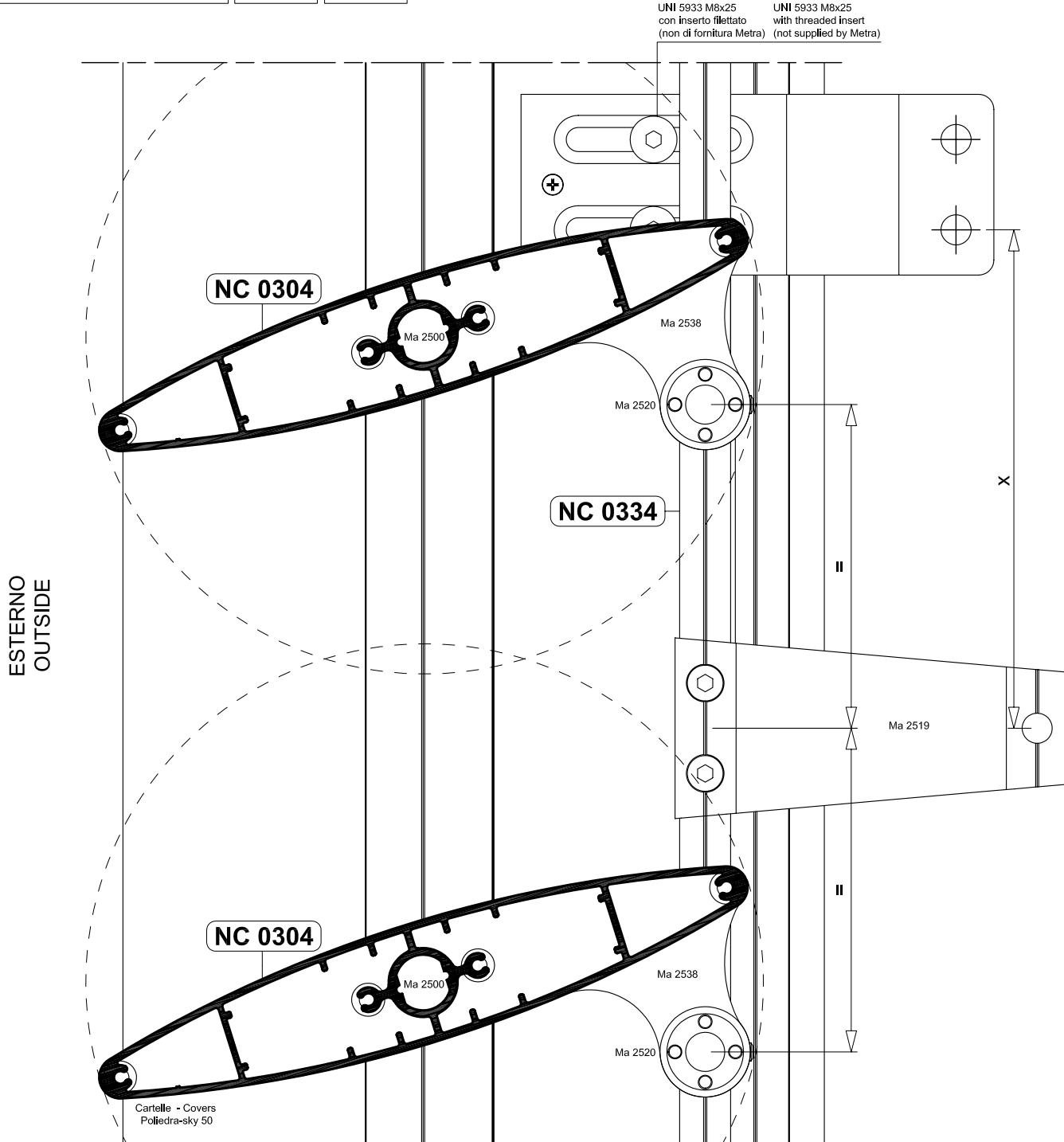

 SCALA 1:2
SCALE 1:2



ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

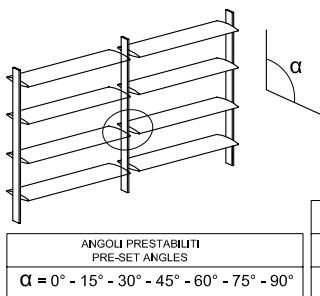
MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0304
120 mm	225 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)
UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

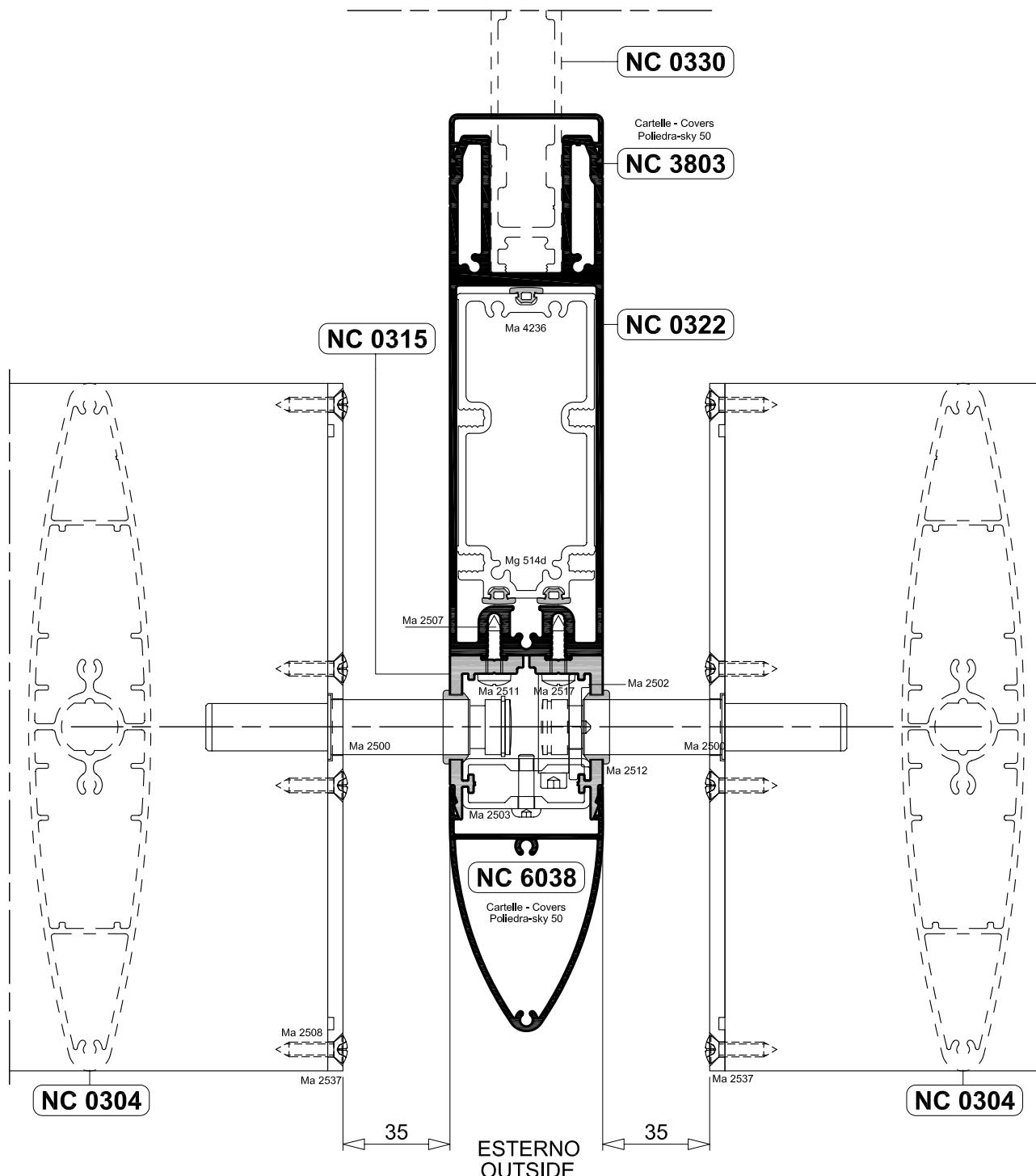


x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

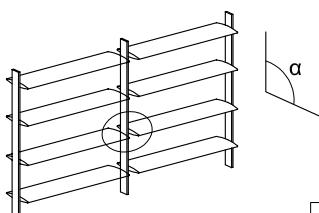
SCALA
SCALE 1:2



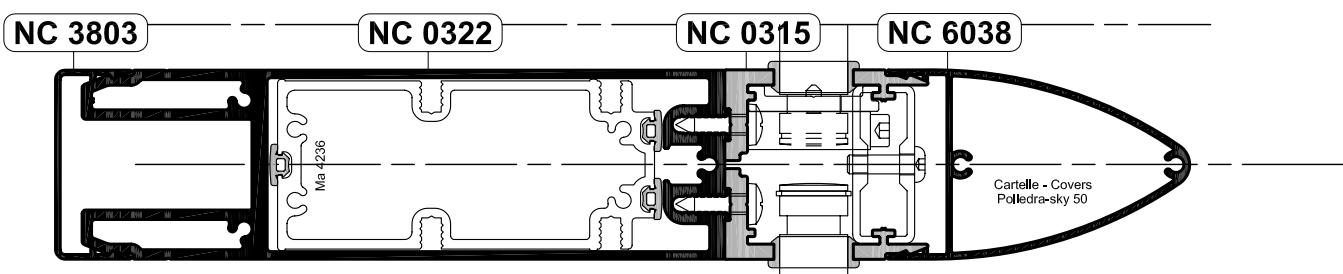
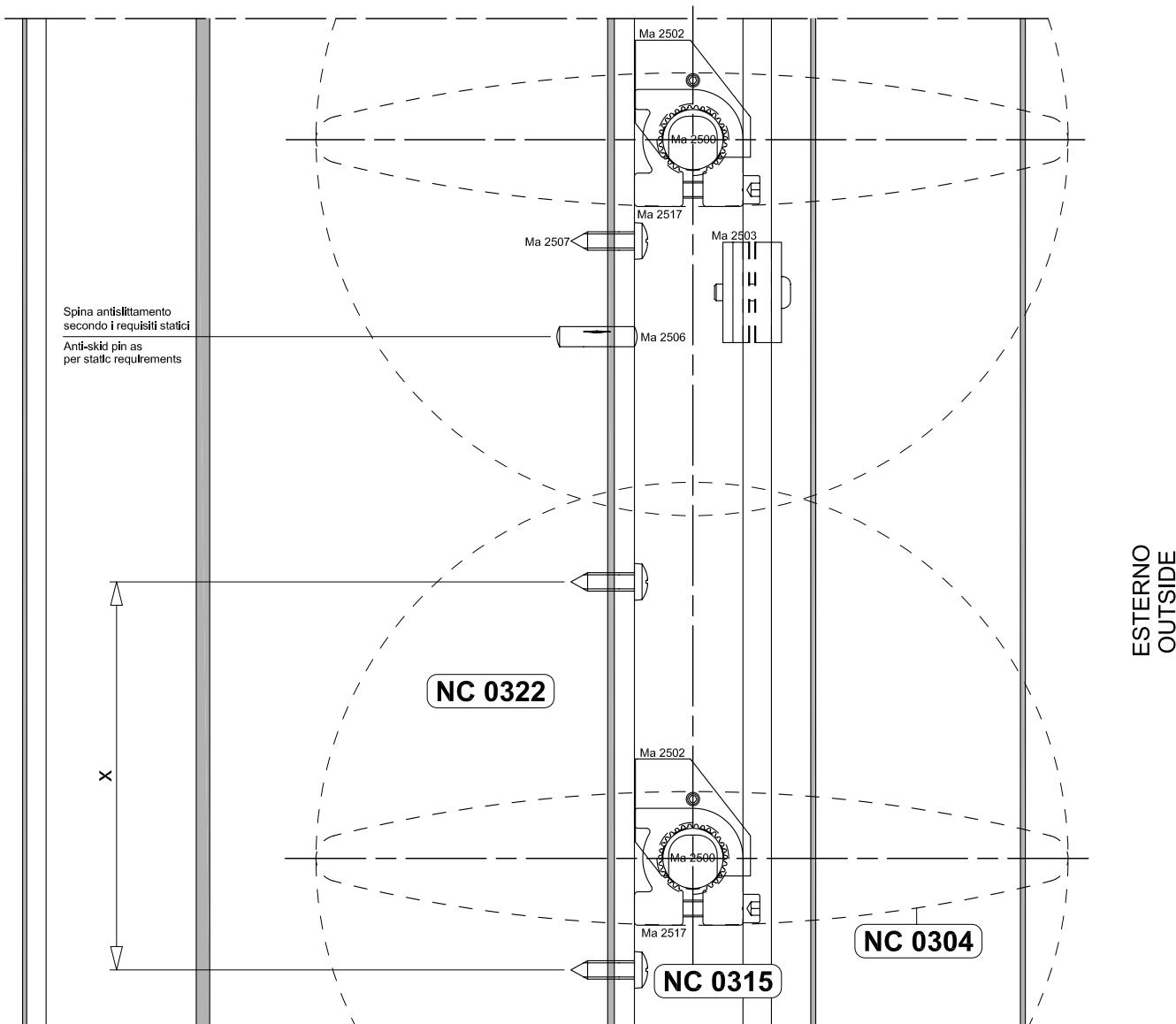
ANGOLI PRESTABILITI PRE-SET ANGLES	MONTANTE MULLION	LAMELLA BLADE
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	NC 0322 170 mm	NC 0304 225 mm



SCALA
SCALE 1:2



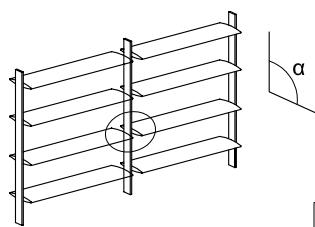
ANGOLI PRESTABILITI PRE-SET ANGLES	MONTANTE MULLION	LAMELLA BLADE
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	NC 0321 170 mm	NC 0304 225 mm



Cartelle - Covers
Polledra-sky 50

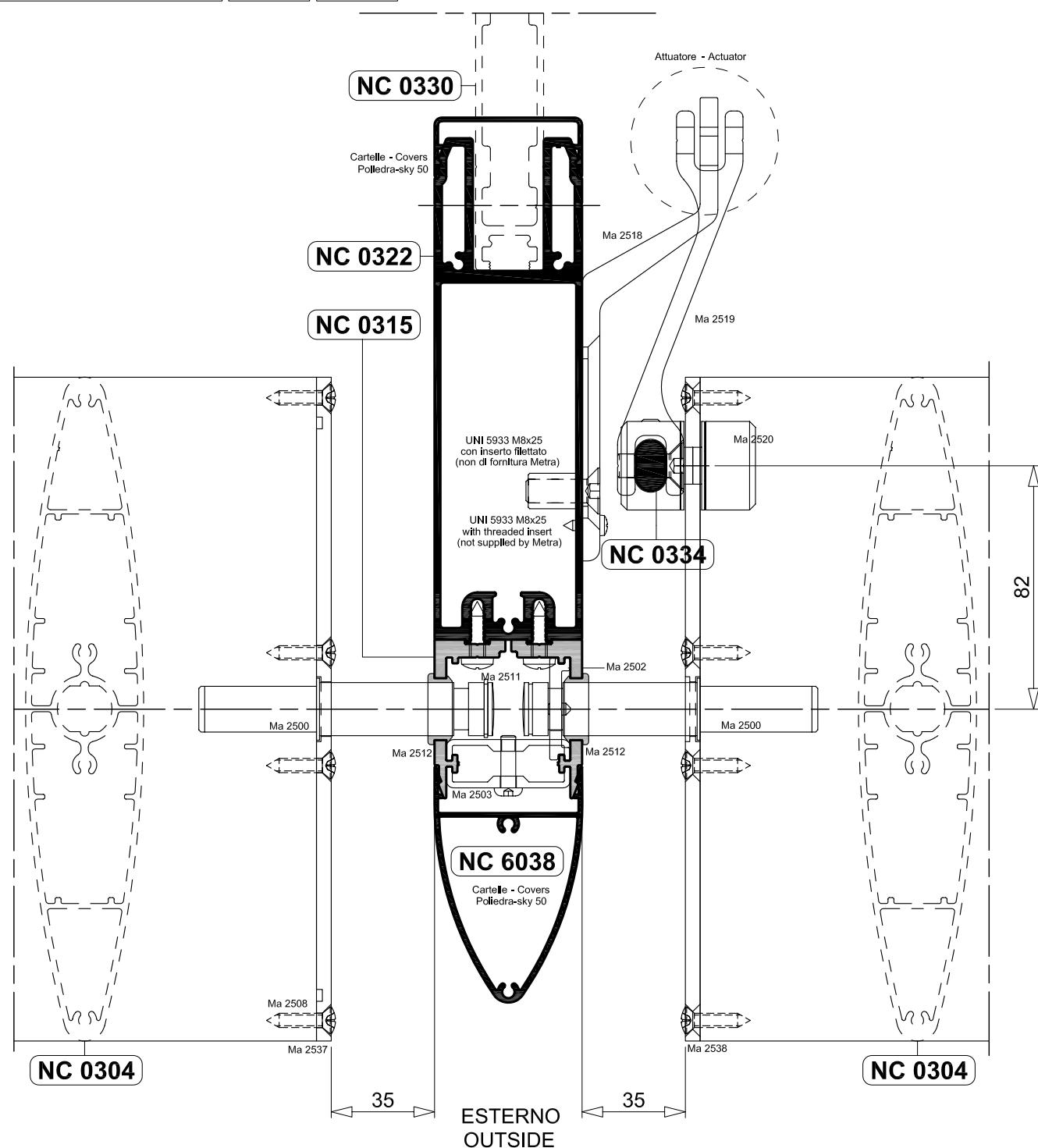
x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

SCALA
SCALE 1:2

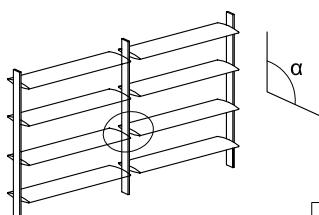


ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0322	NC 0304
170 mm	225 mm



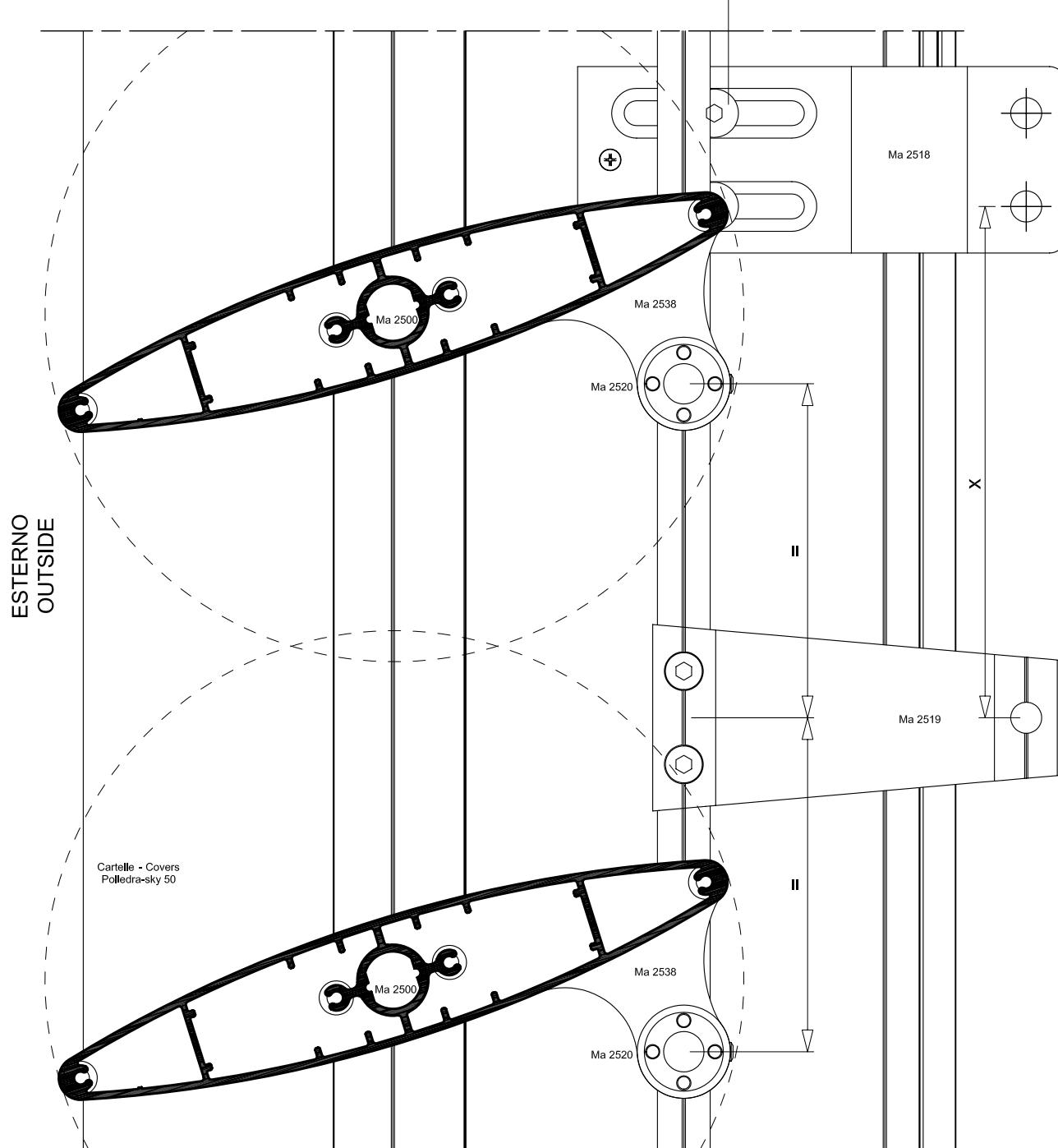
SCALA 1:2
SCALE 1:2



ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

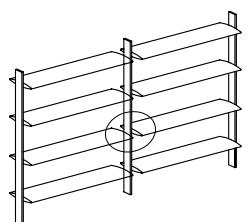
MONTANTE MULLION	LAMELLA BLADE
NC 0322	NC 0304
170 mm	225 mm

UNI 5933 M8x25
con inserto flettito
(non di fornitura Metra) UNI 5933 M8x25
with threaded insert
(not supplied by Metra)



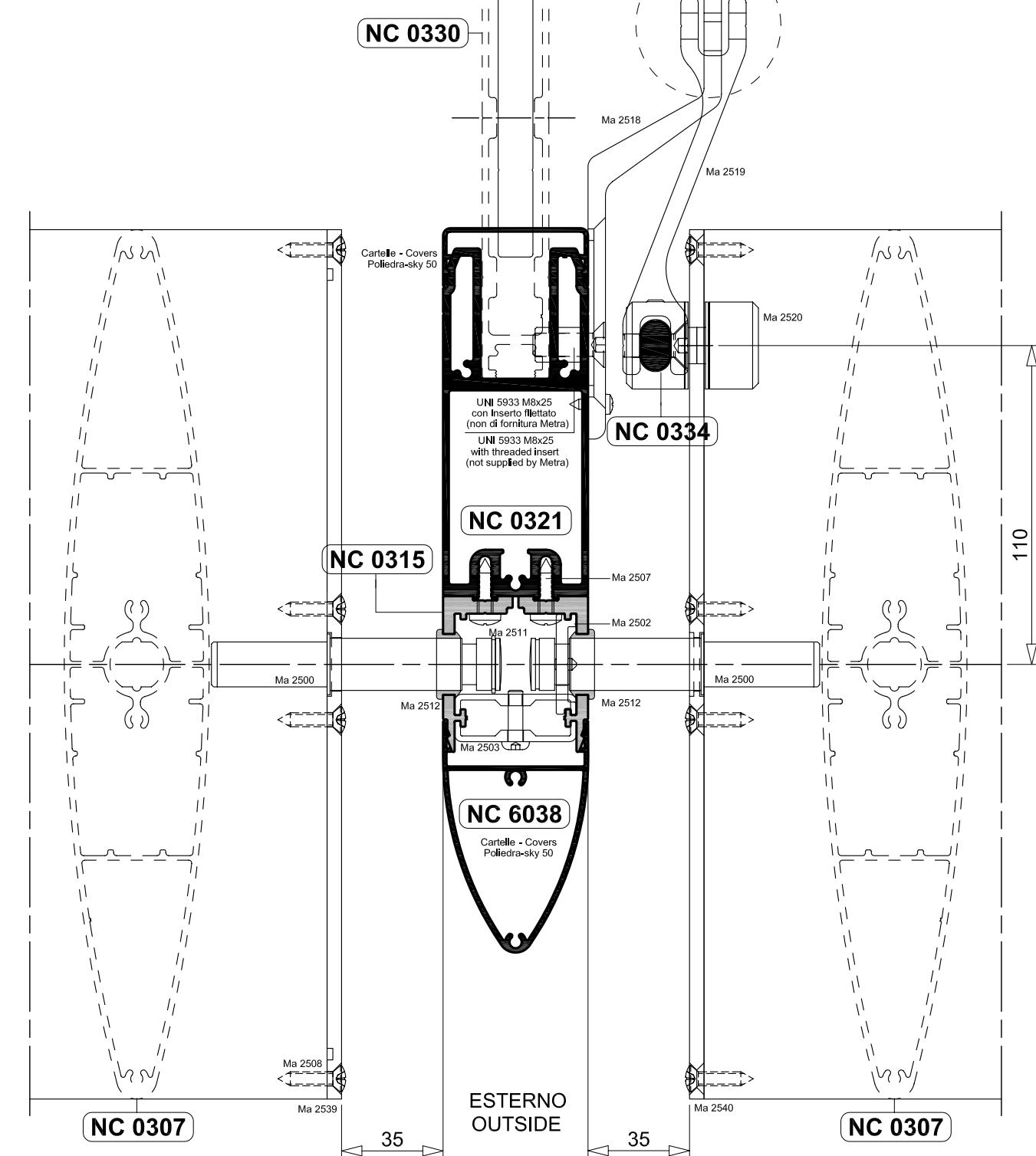
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA 1:2
SCALE 1:2

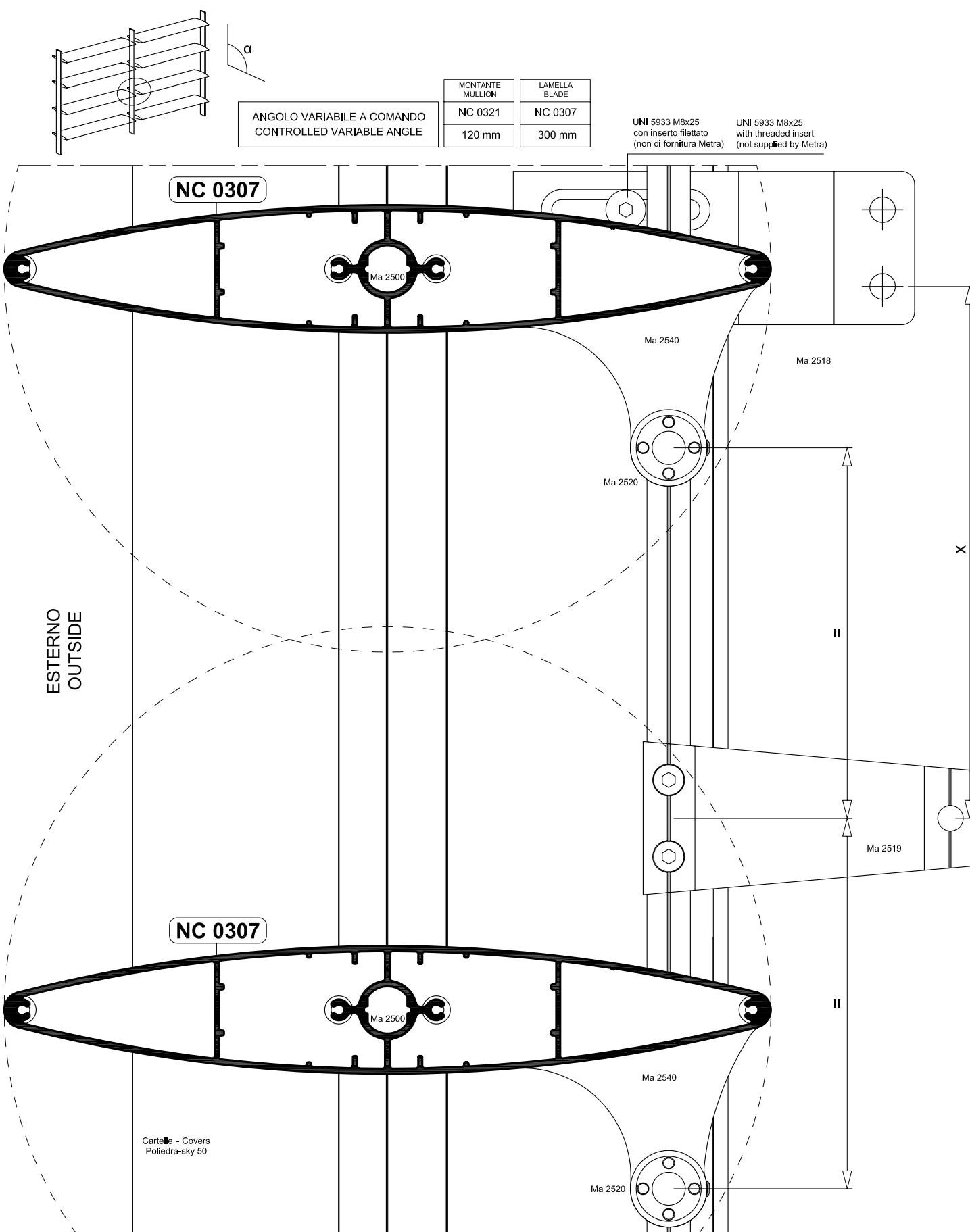


ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0307
120 mm	300 mm

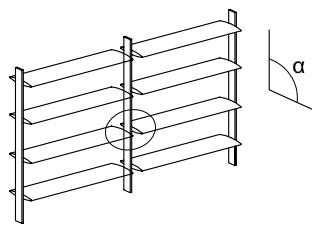


SCALA 1:2
SCALE 1:2



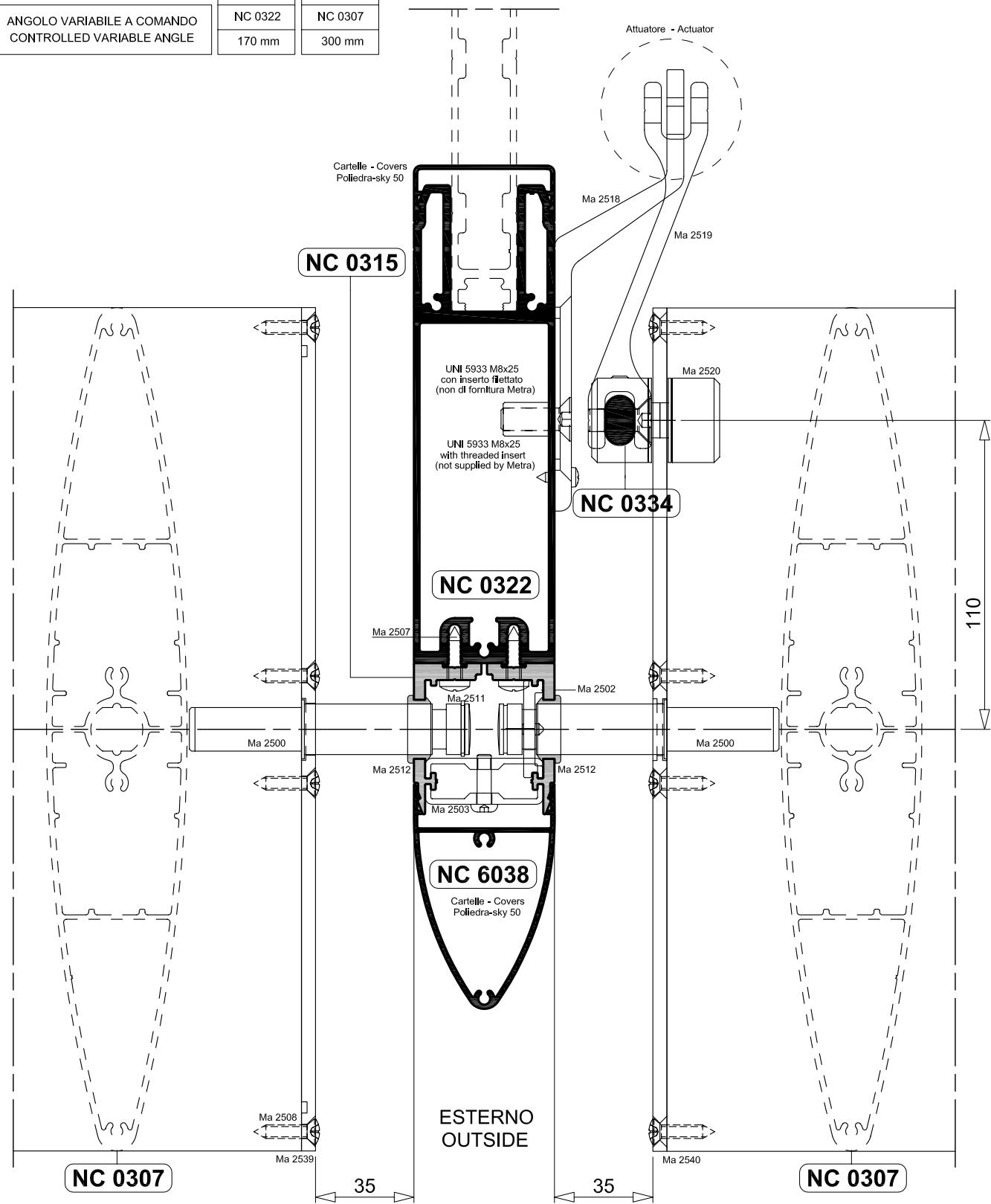
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

SCALA 1:2

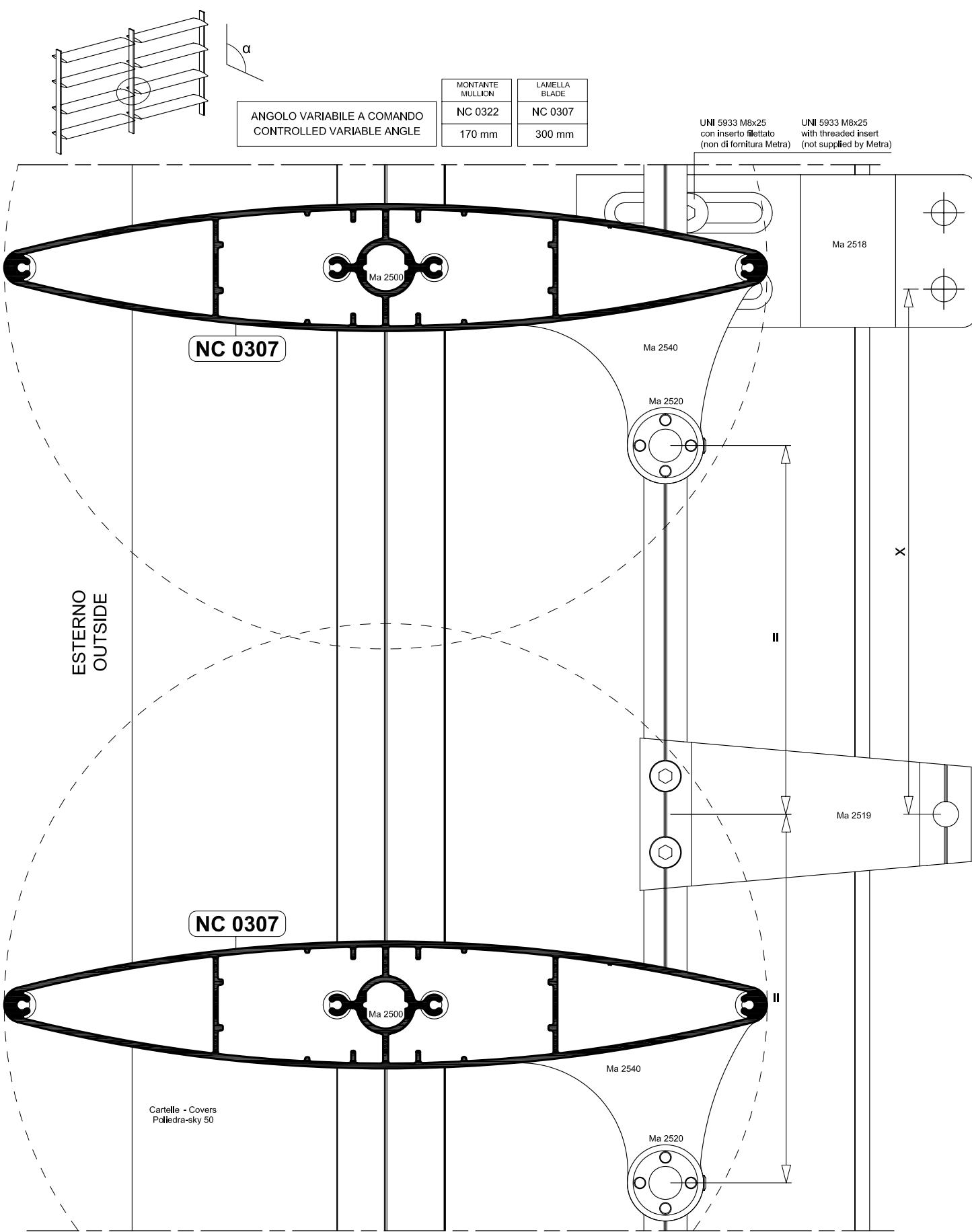


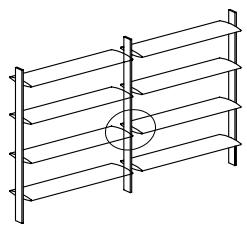
ANGOLO VARIABILE A COMANDO CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0322	NC 0307
170 mm	300 mm



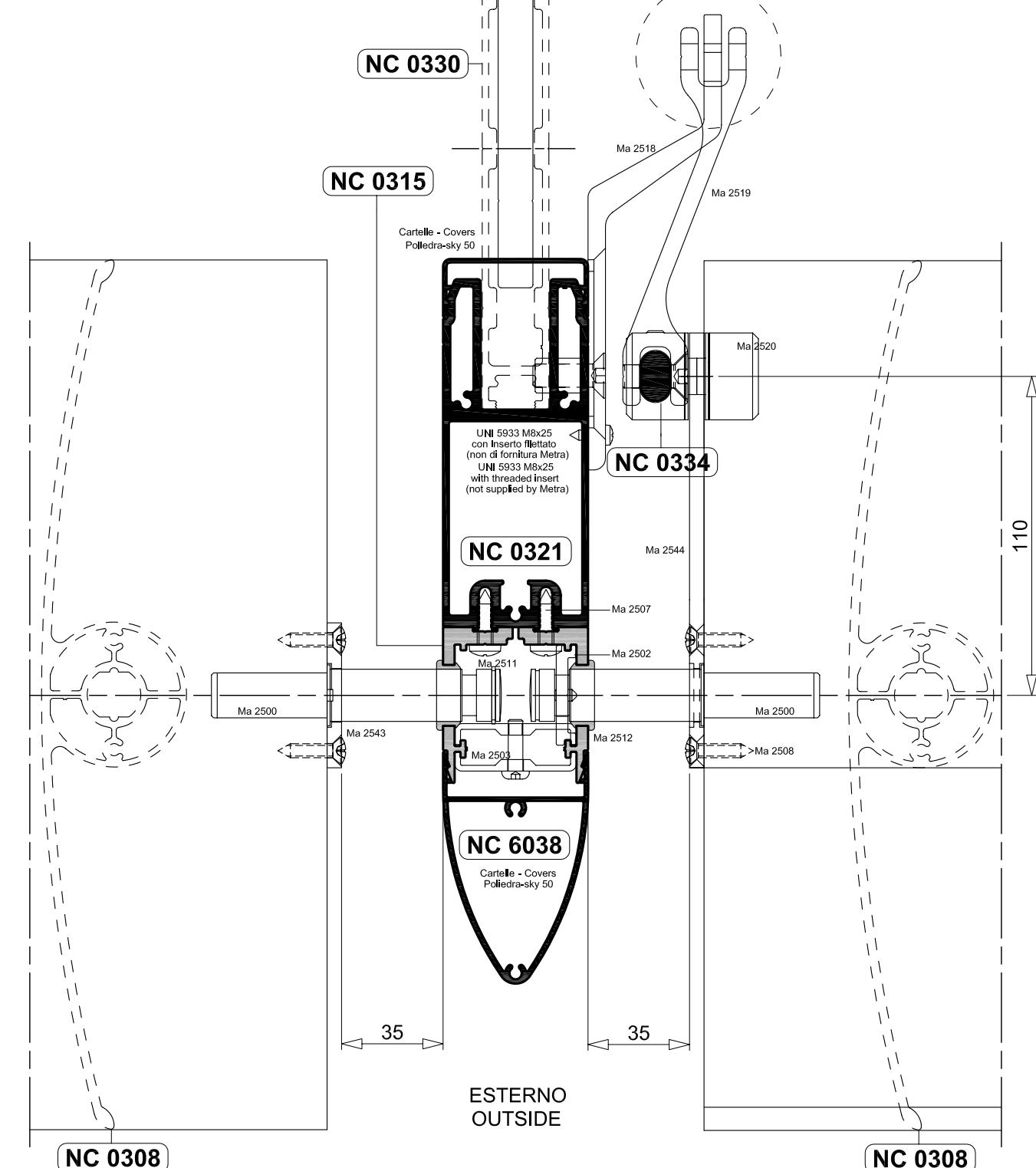
SCALA SCALE 1:2


 SCALA
 SCALE 1:2

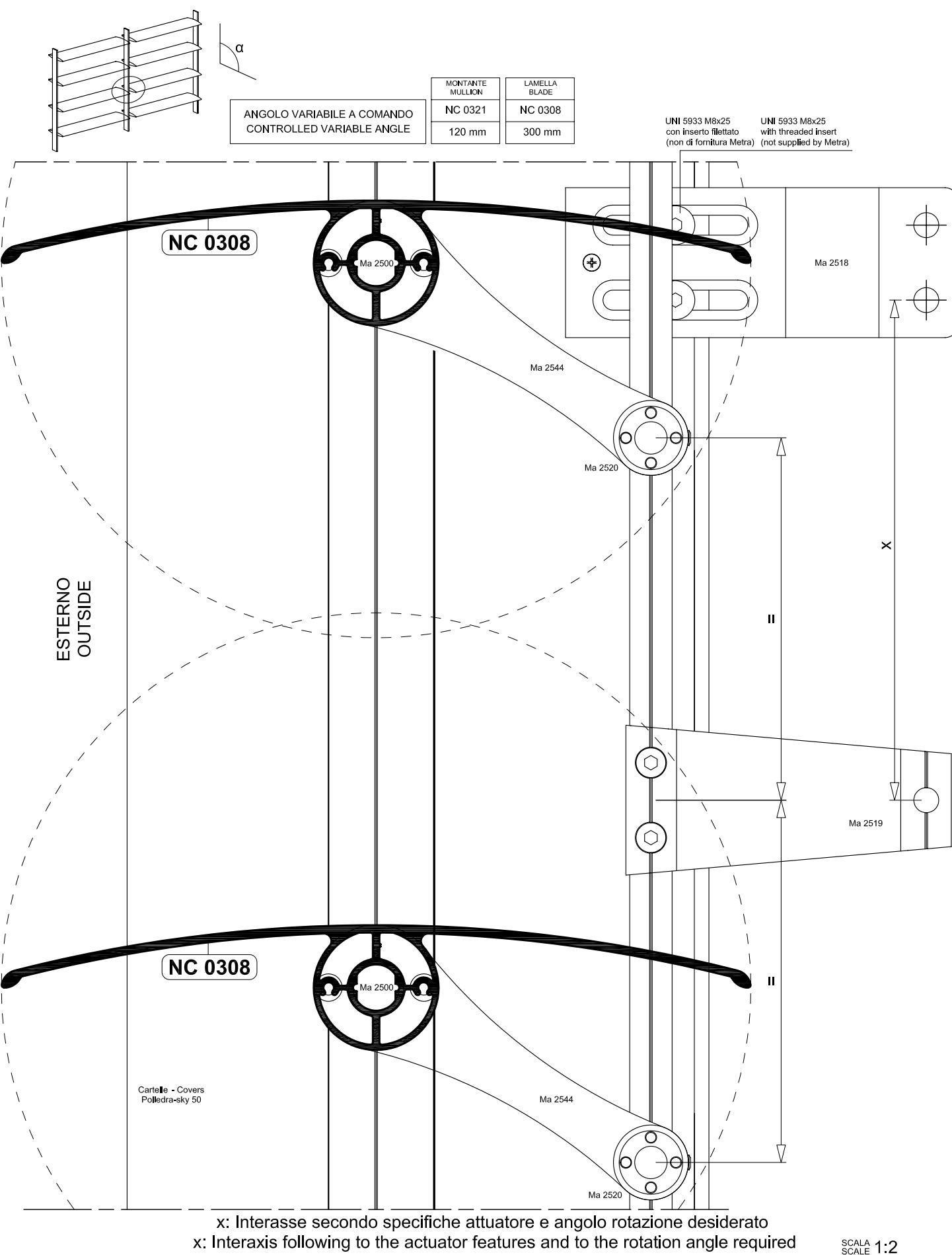


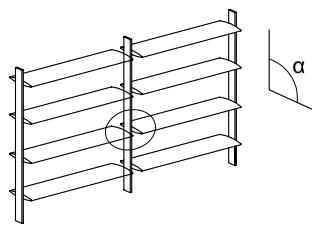
ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0308
120 mm	300 mm



SCALA 1:2
SCALE 1:2


 SCALA
SCALE 1:2



ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0322	NC 0308
170 mm	300 mm

NC 0330

Cartelle - Covers
Poliedra-sky 50

NC 0315

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)

UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

NC 0322

NC 6038

Cartelle - Covers
Poliedra-sky 50

Attuatore - Actuator

Ma 2518

Ma 2519

Ma 2520

Ma 2544

Ma 2507

Ma 2502

Ma 2512

Ma 2511

Ma 2503

Ma 2501

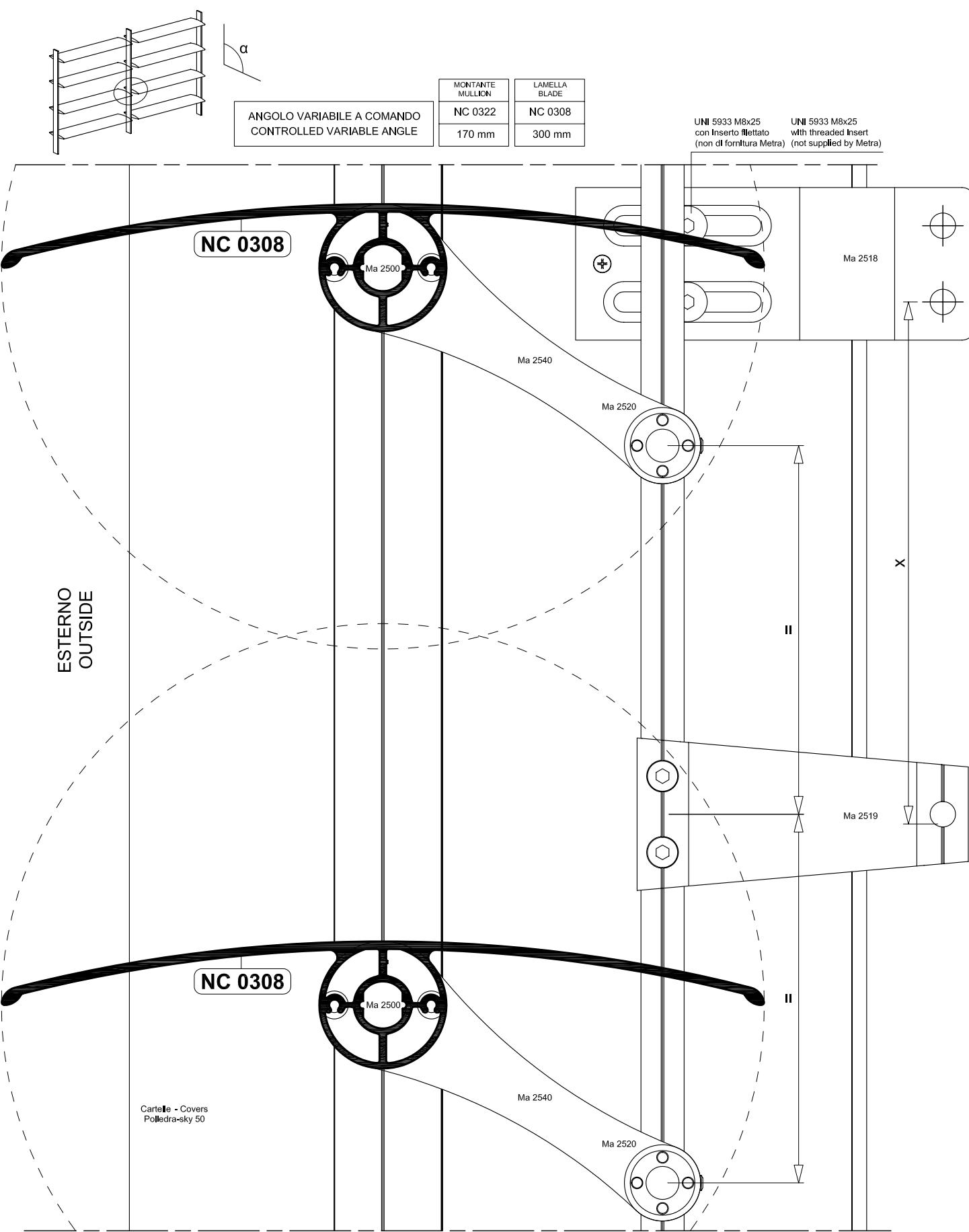
Ma 2500

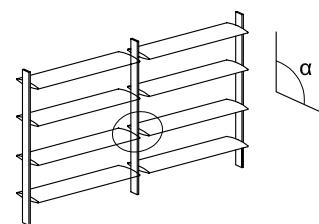
ESTERNO
OUTSIDE

NC 0308

NC 0308

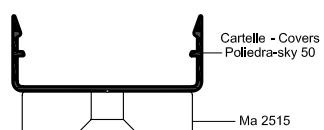
SCALA 1:2
SCALE 1:2





ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0321	VETRO GLASS
120 mm	300 mm



Cartelle - Covers
Poliedra-sky 50

Ma 2515

NC 0330

Cartelle - Covers
Poliedra-sky 50

UNI 5933 M8x25
con inserto filetato
(non di fornitura Metra)
UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

NC 0321

NC 0315

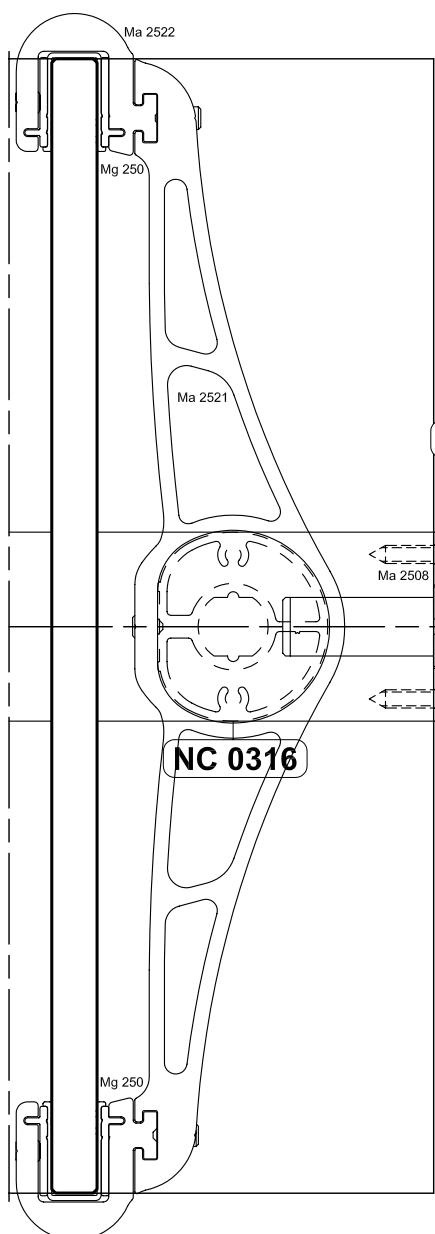
NC 0334

NC 0316

NC 6038

Cartelle - Covers
Poliedra-sky 50

ESTERNO
OUTSIDE



35

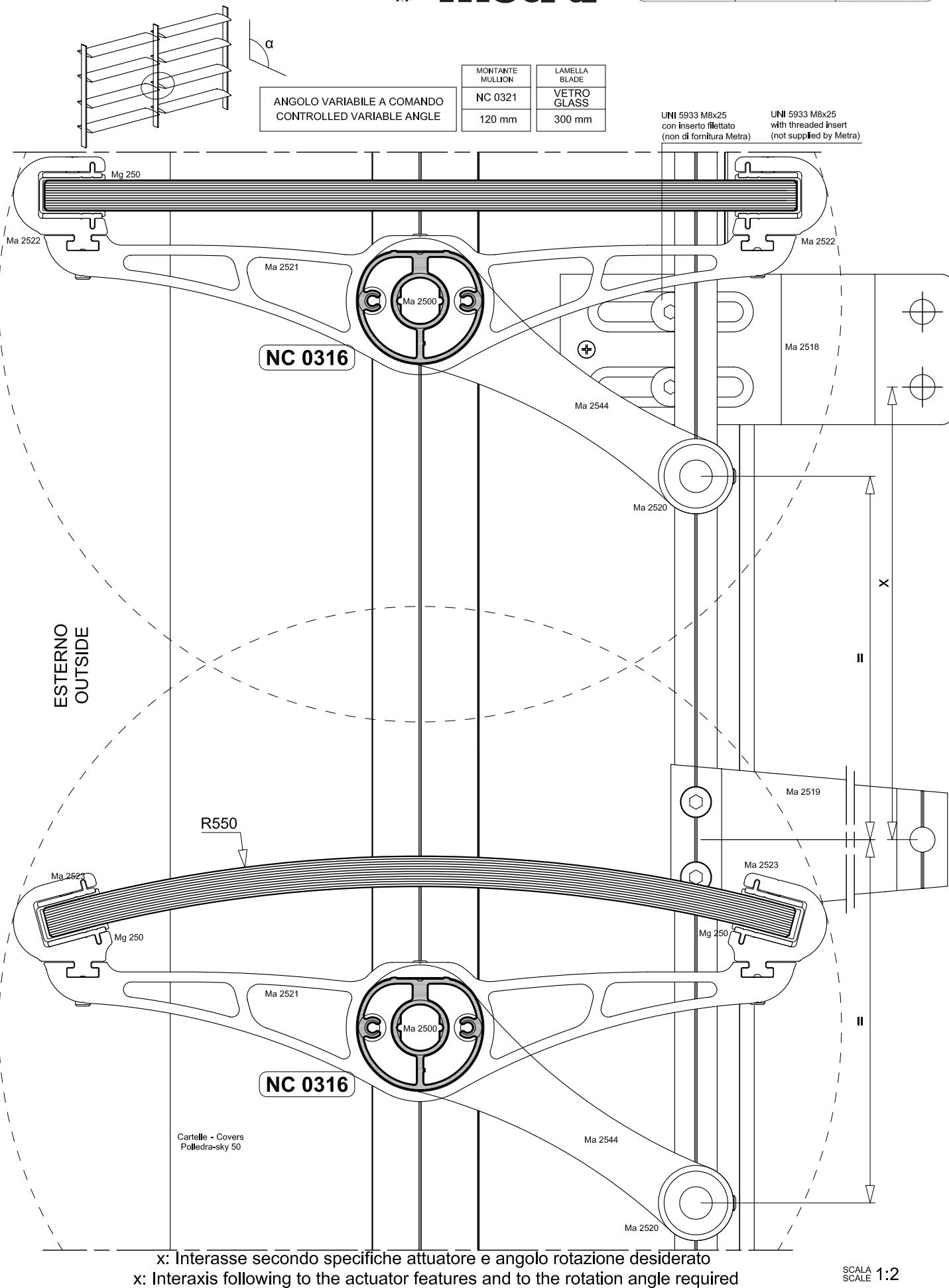
35

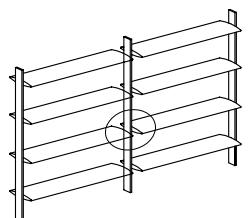
Ma 2523
Mg 250

110

Ma 2523

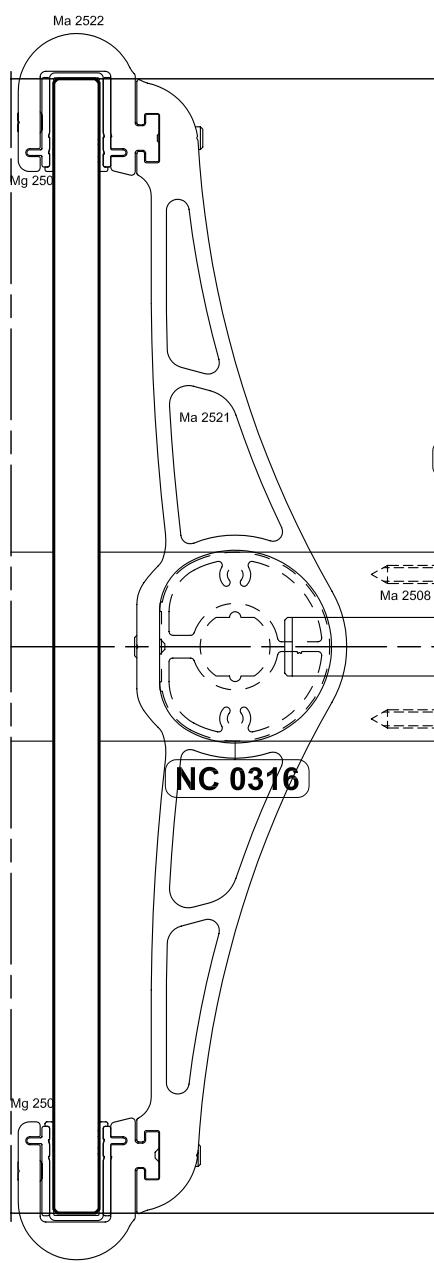
SCALA 1:2
SCALE 1:2


 SCALA 1:2
SCALE 1:2

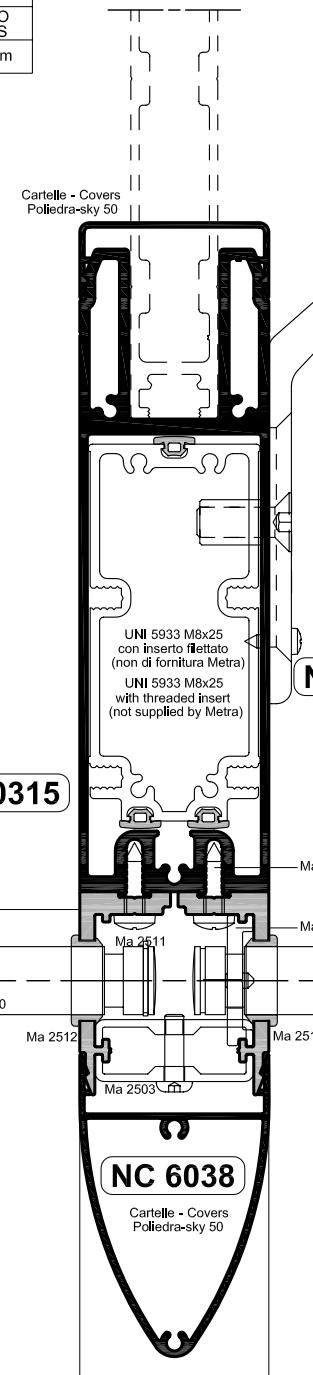


ANGOLO VARIABILE A COMANDO CONTROLLED VARIABLE ANGLE

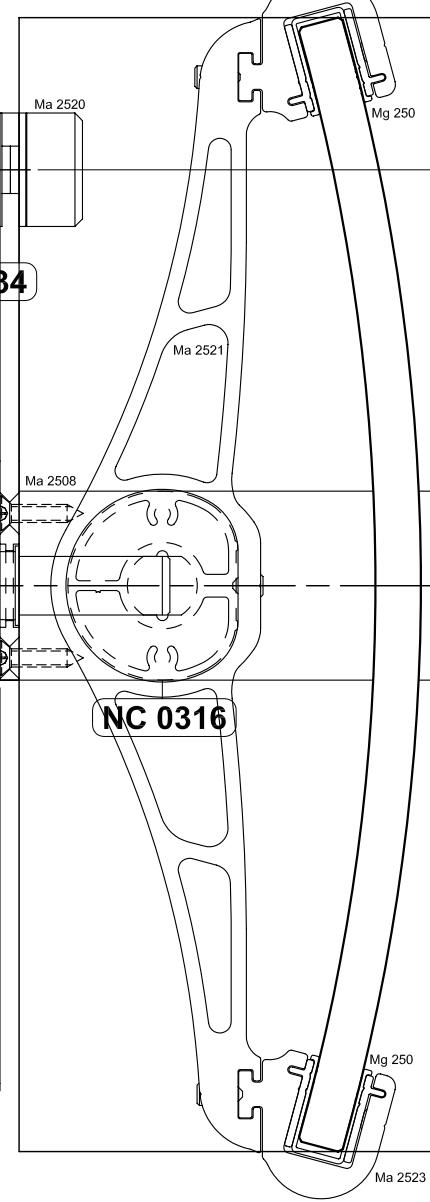
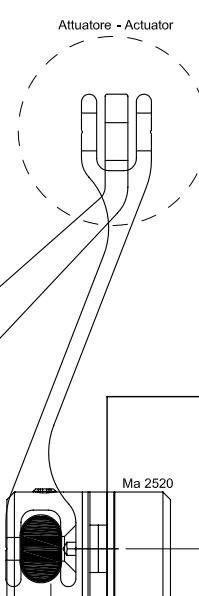
MONTANTE MULLION	LAMELLA BLADE
NC 0322	VETRO GLASS
170 mm	300 mm



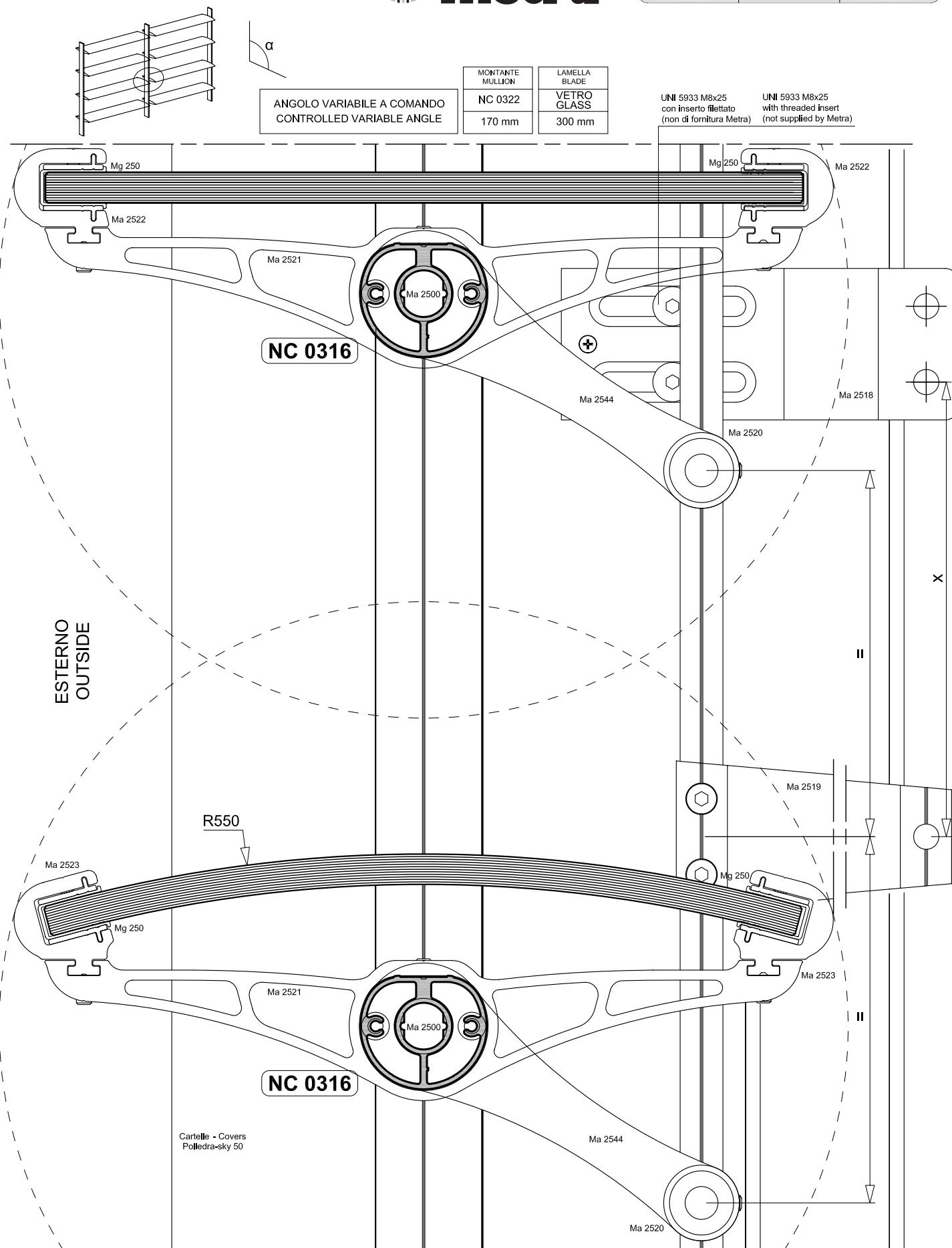
NC 0316



NC 0334

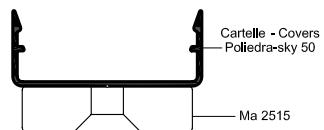
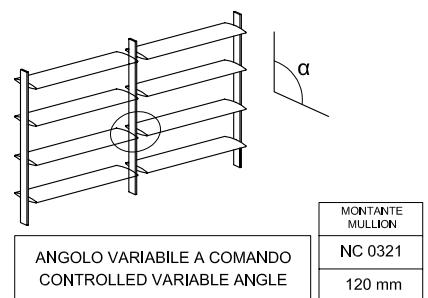


DATA
06/07/2004

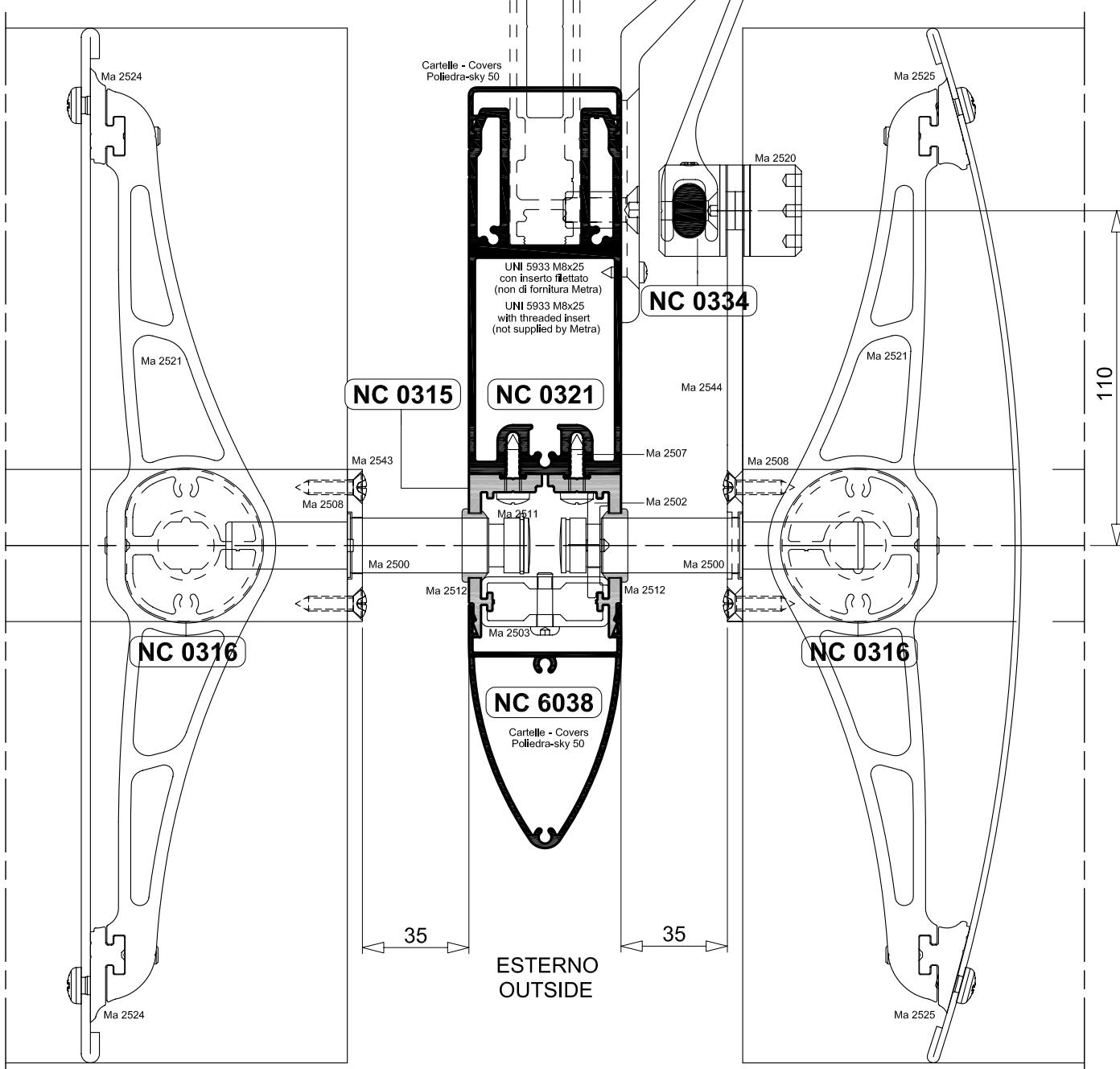


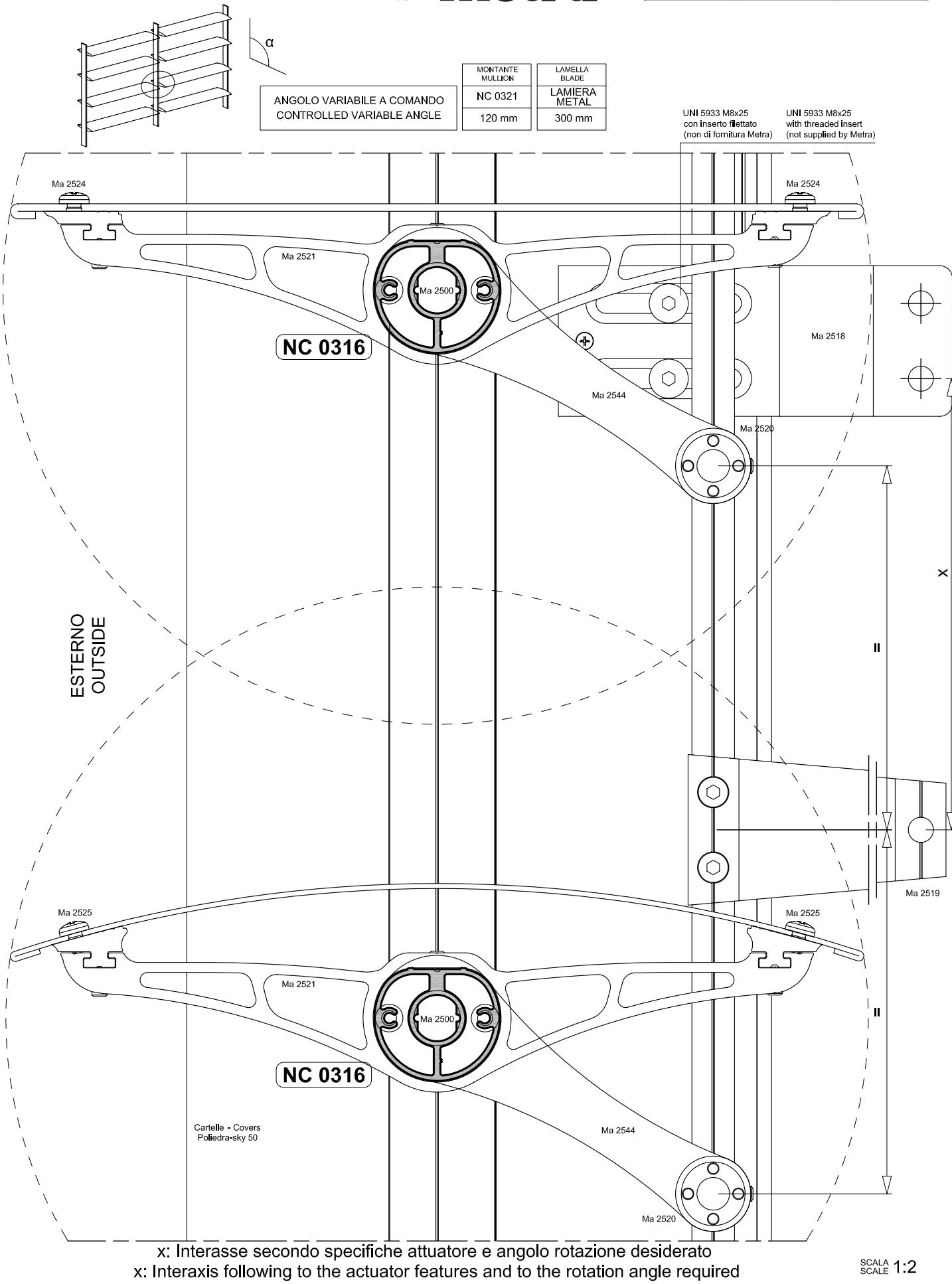
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

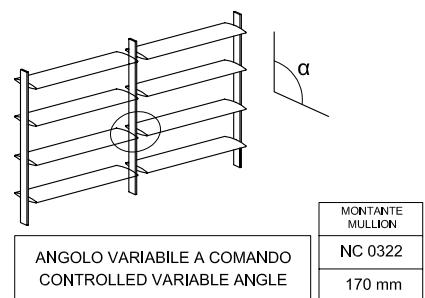
SCALA
SCALE 1:2


NC 0330

Attuatore - Actuator

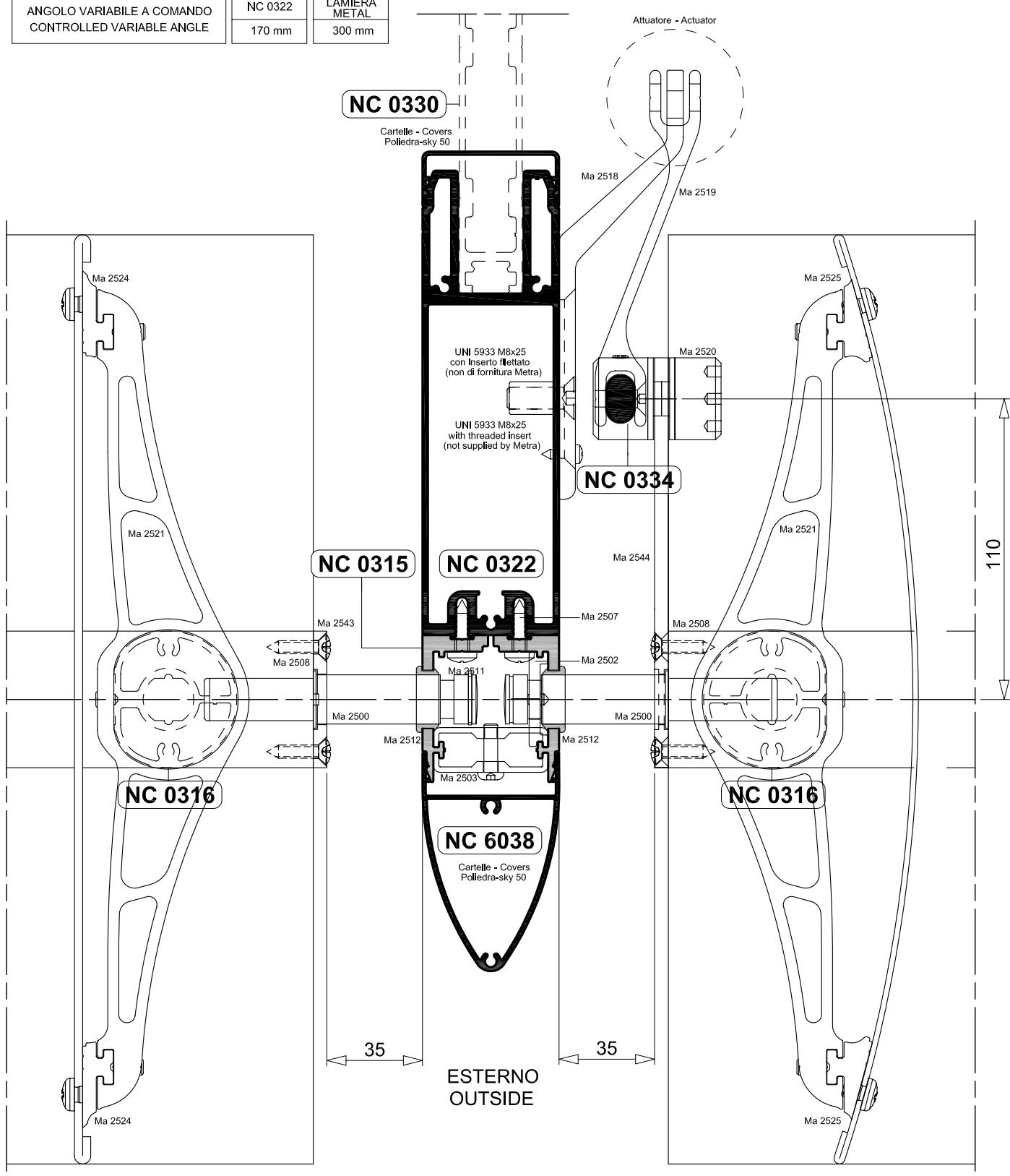
 Ma 2518
Ma 2519



 SCALA
SCALE 1:2

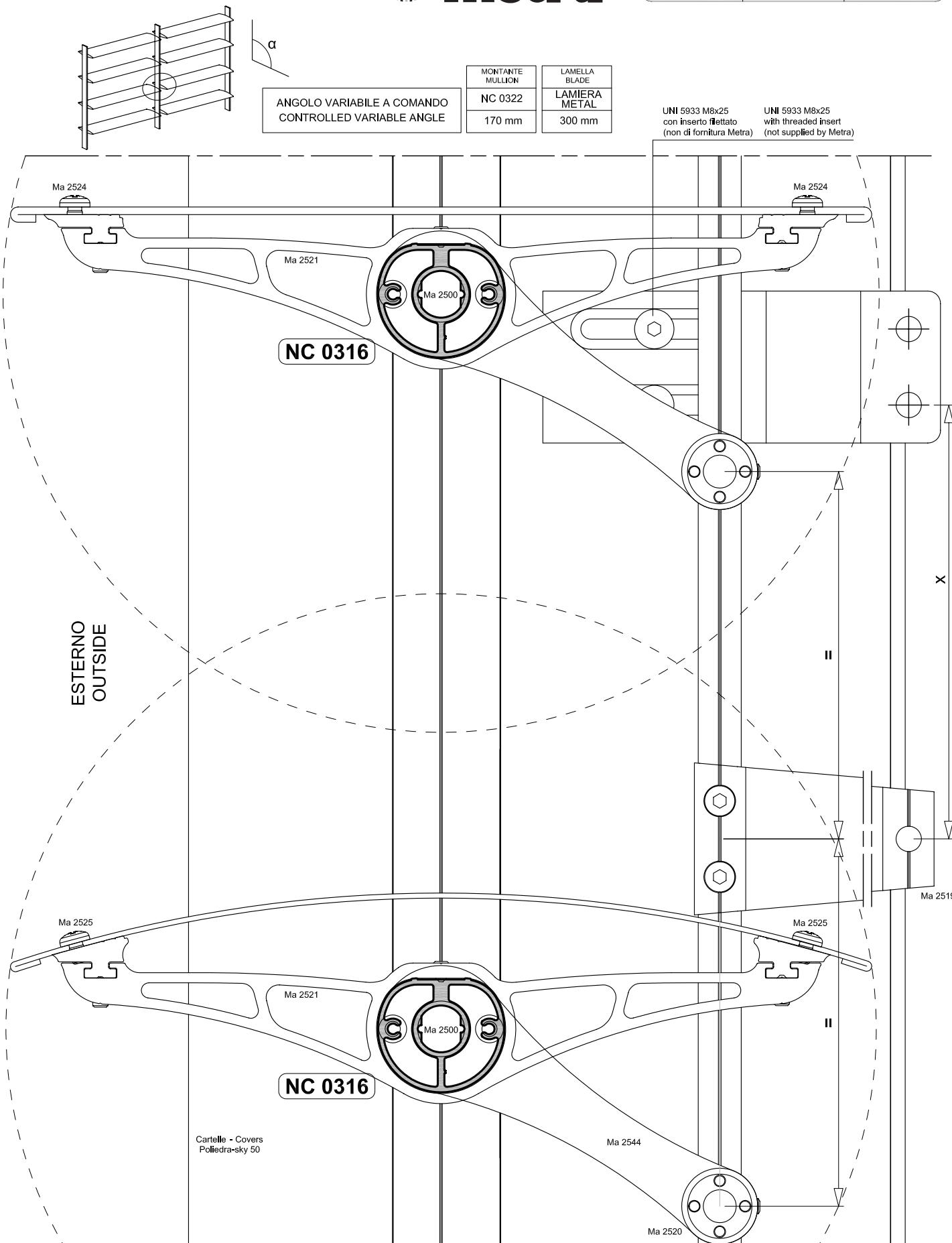


ANGOLO VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

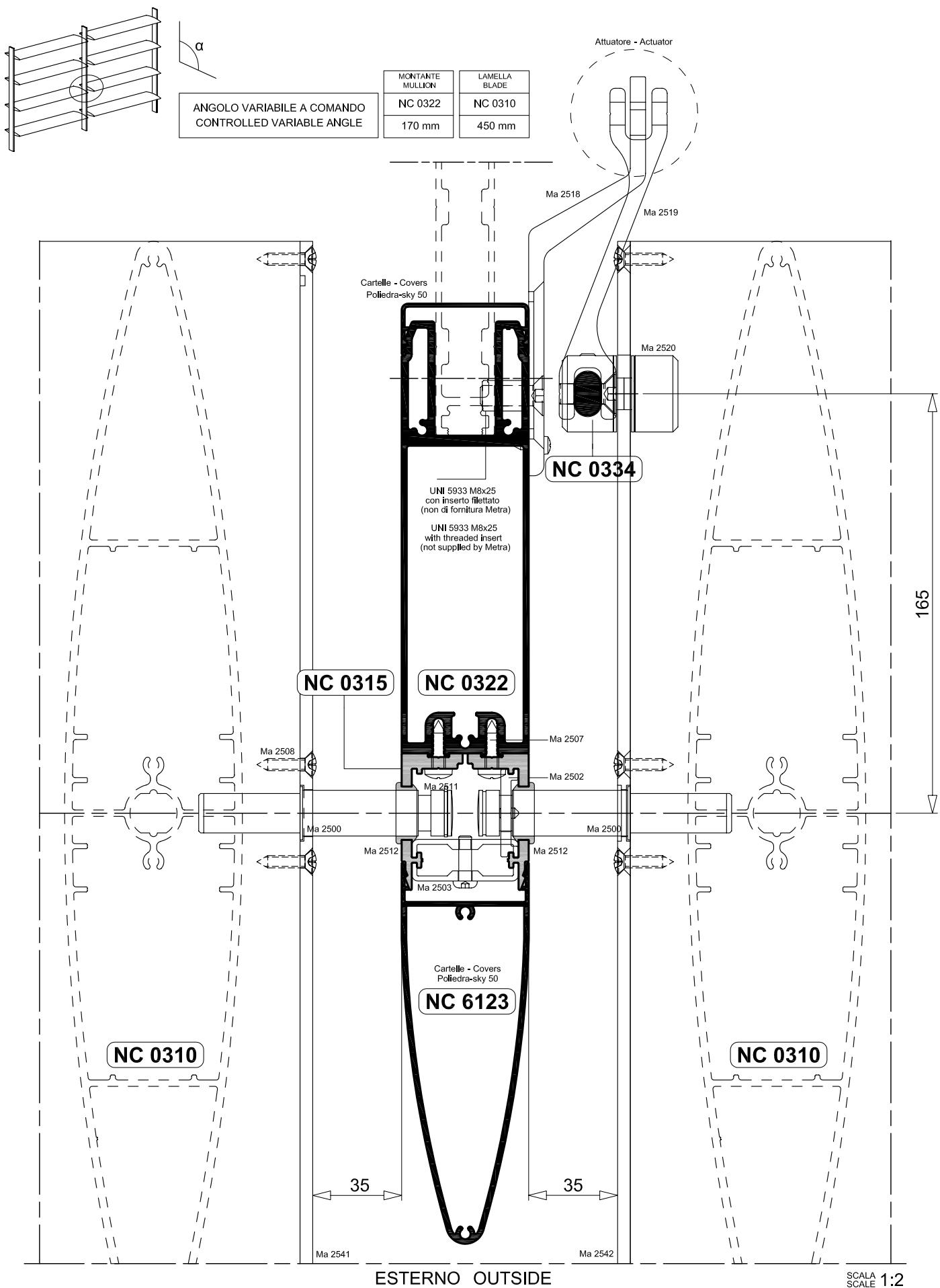
MONTANTE MULLION	LAMELLA BLADE
NC 0322	LAMIERA METAL
170 mm	300 mm

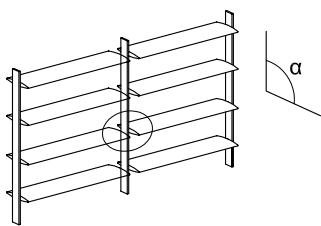


SCALA SCALE 1:2



SCALA 1:2



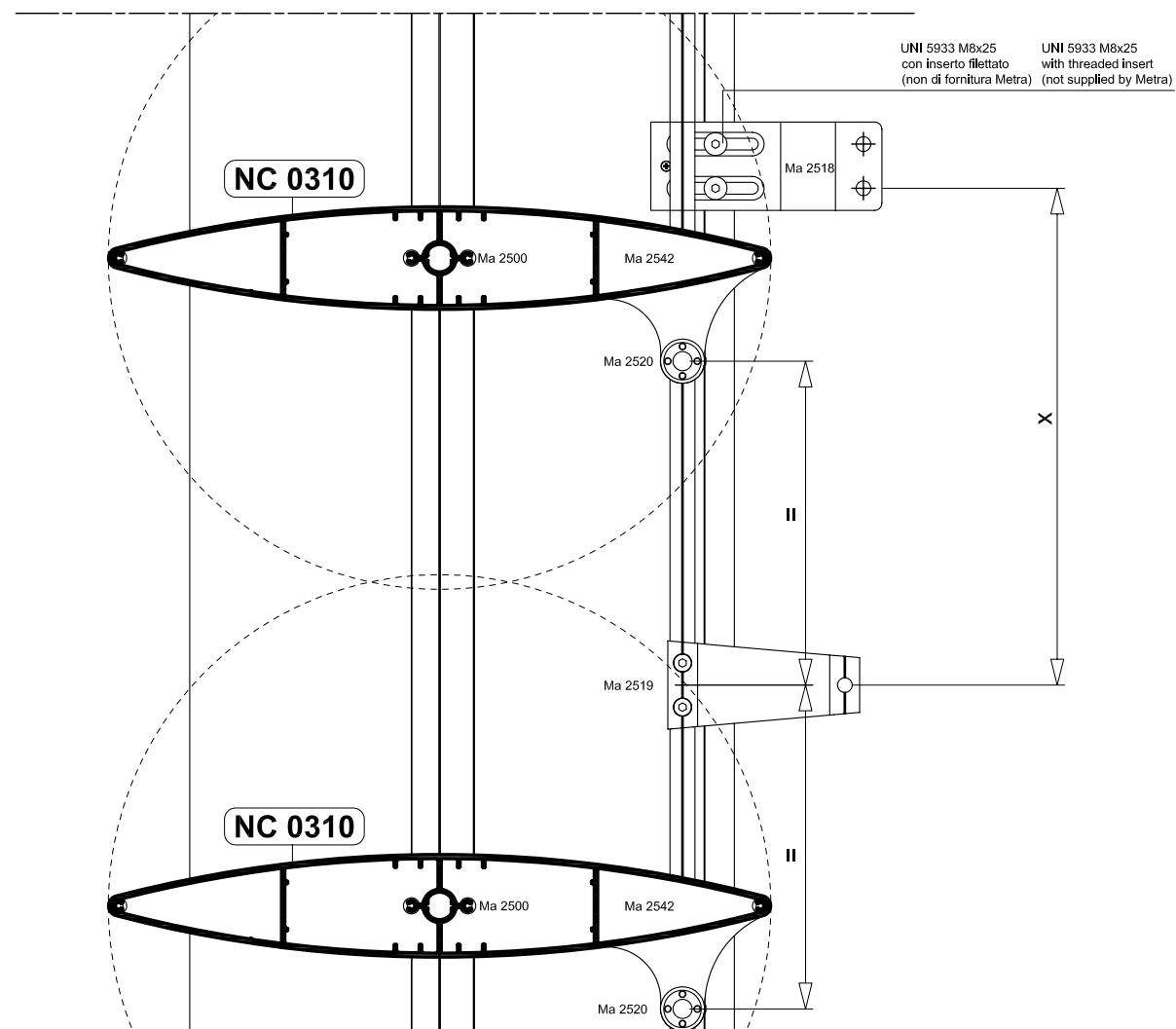


ANGOLI VARIABILI A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0322	NC 0310
170 mm	450 mm

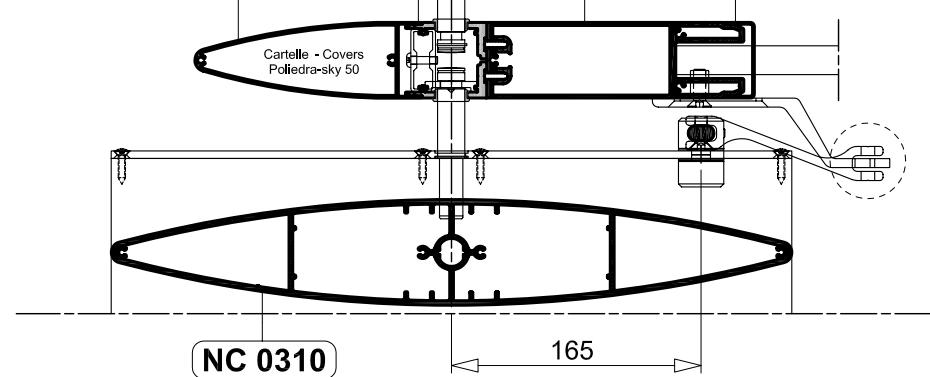
ESTERNO
OUTSIDE

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra) UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

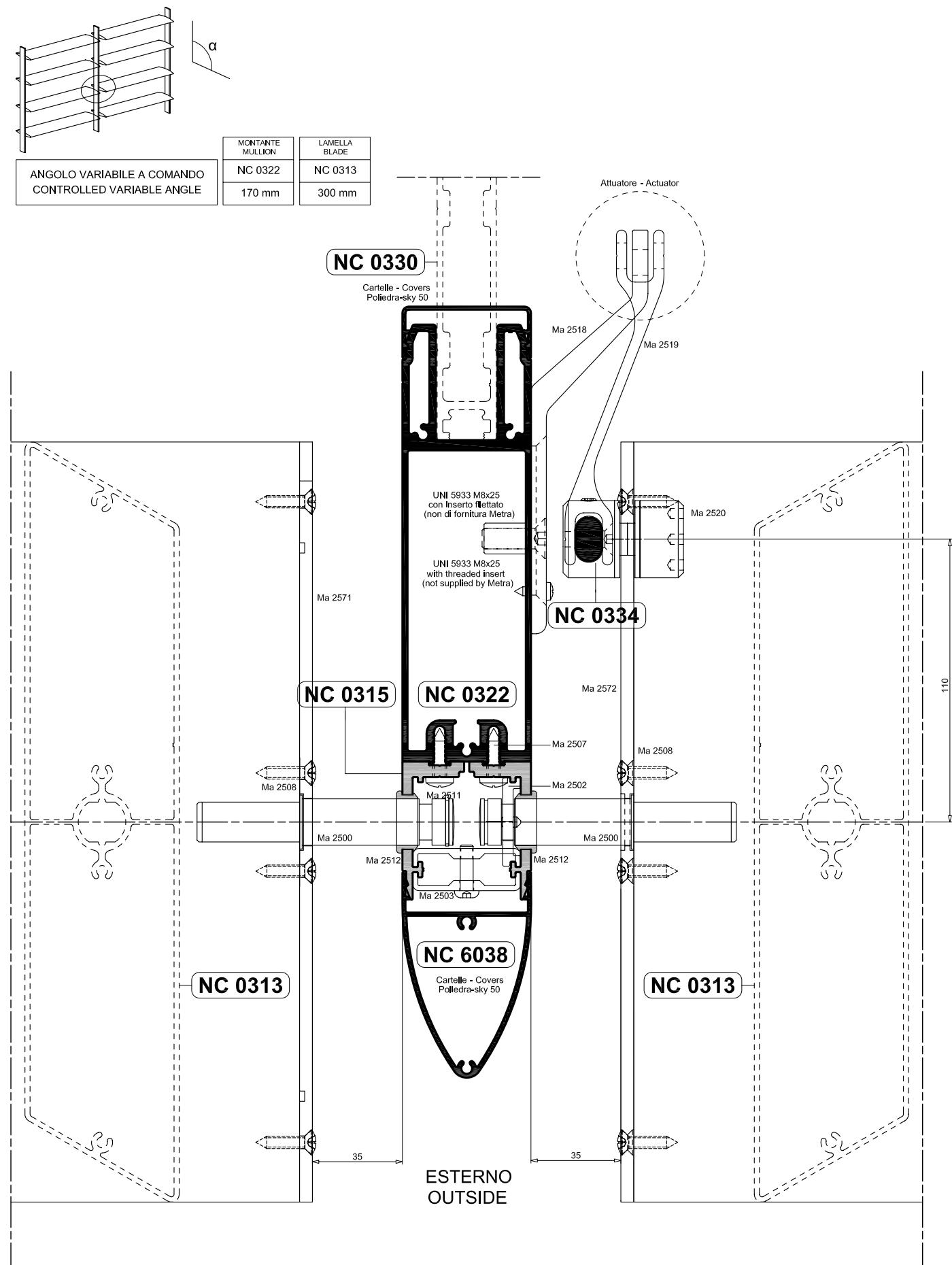


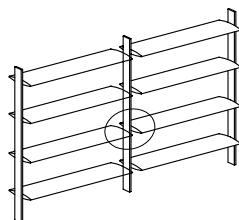
SCALA
SCALE 1:5

NC 6123 NC 0315 NC 0322 NC 3803



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required


 SCALA 1:2
SCALE 1:2



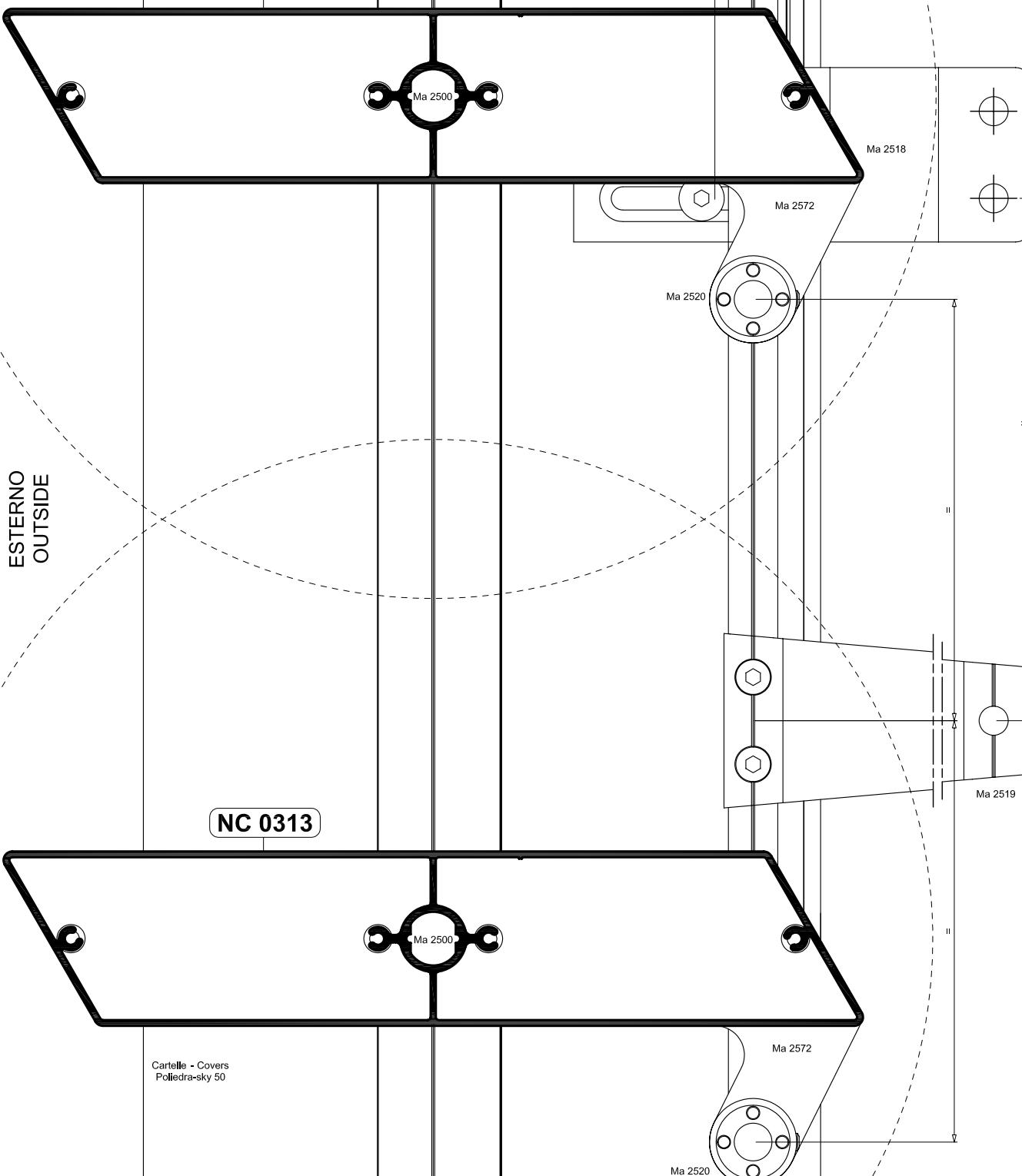
ANGolo VARIABILE A COMANDO
CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0321	NC 0313
120 mm	300 mm

UNI 5933 M8x25
con inserto flettato
(non di fornitura Metra)

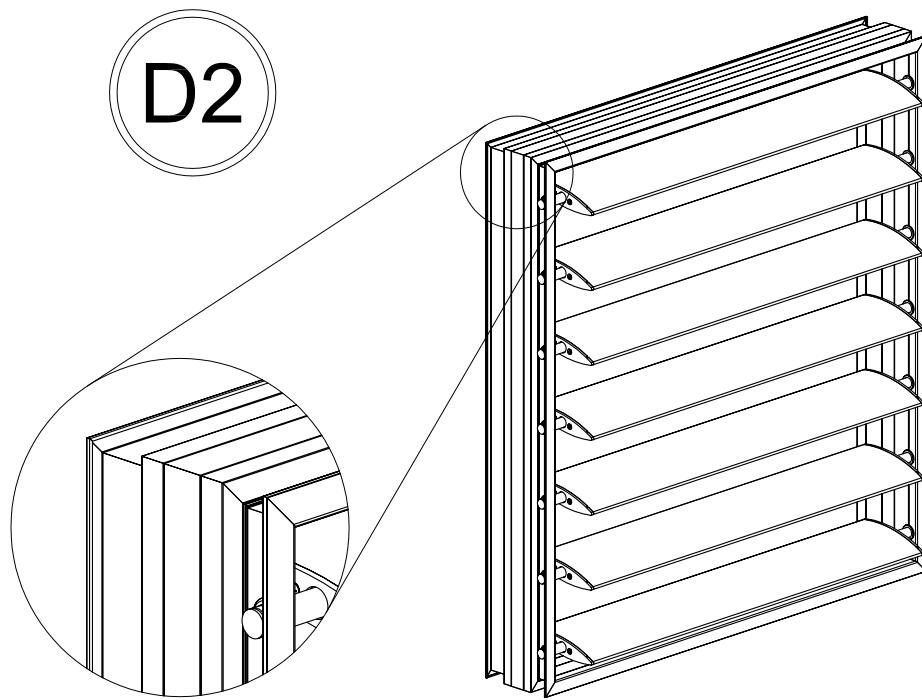
UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

NC 0313



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA SCALE 1:2



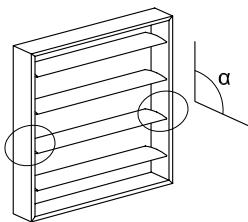
Frangisole orizzontale a cellule. Angoli prestabili e variabili. Collegabile alle facciate continue Metra ed alla muratura.

Horizontal cell-type sunblade. Pre-set and variable orientation.
Can be combined to the Metra Poliedra-sky 50 curtain wall and to the wall.

FRANGISOLE ORIZZONTALE SEZIONI HORIZONTAL SUNBLADE SECTIONS

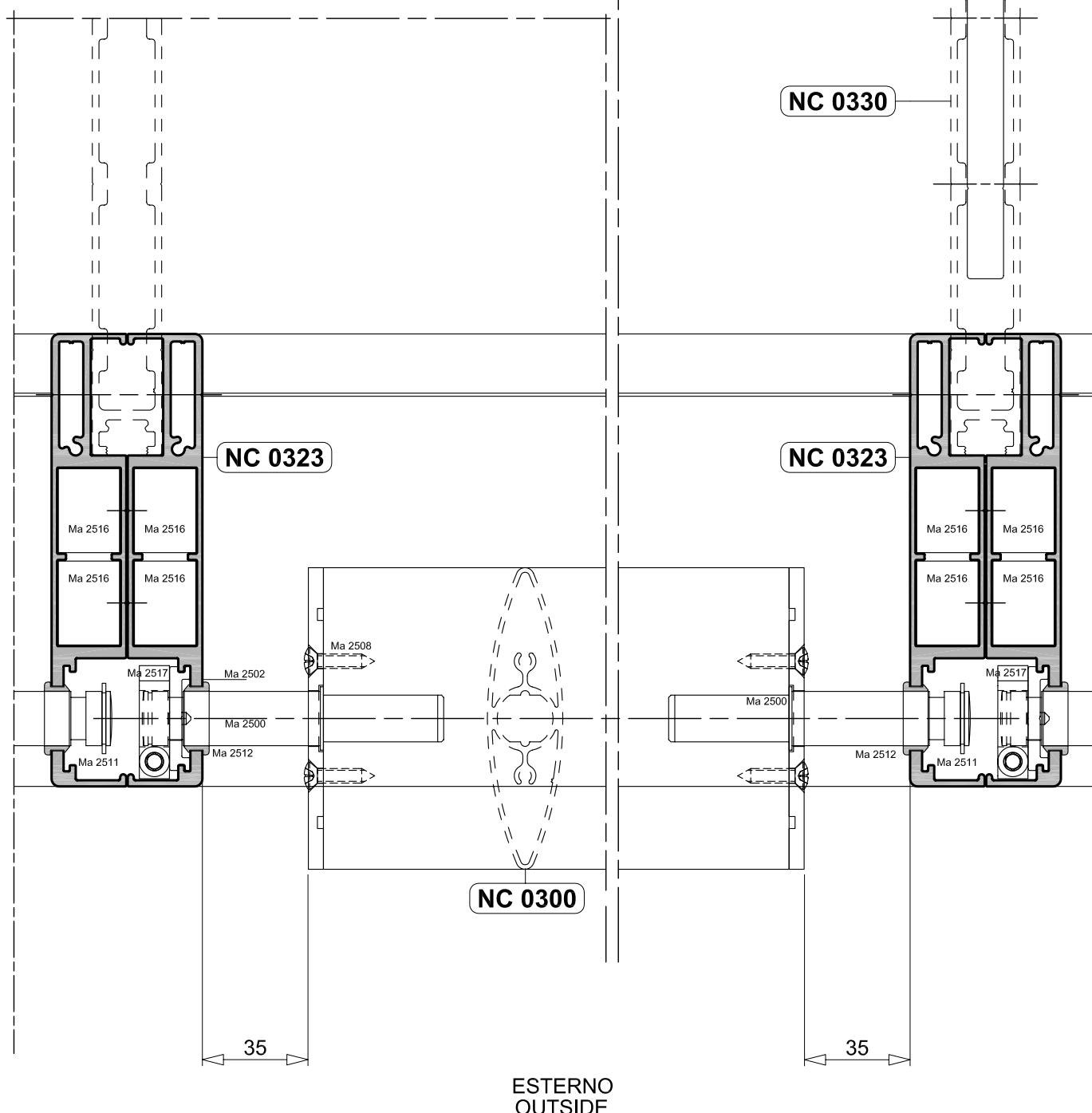
- GRUPPO D2
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

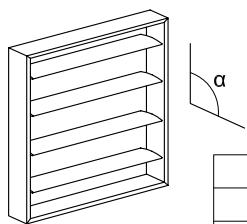
- GROUP D2
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS



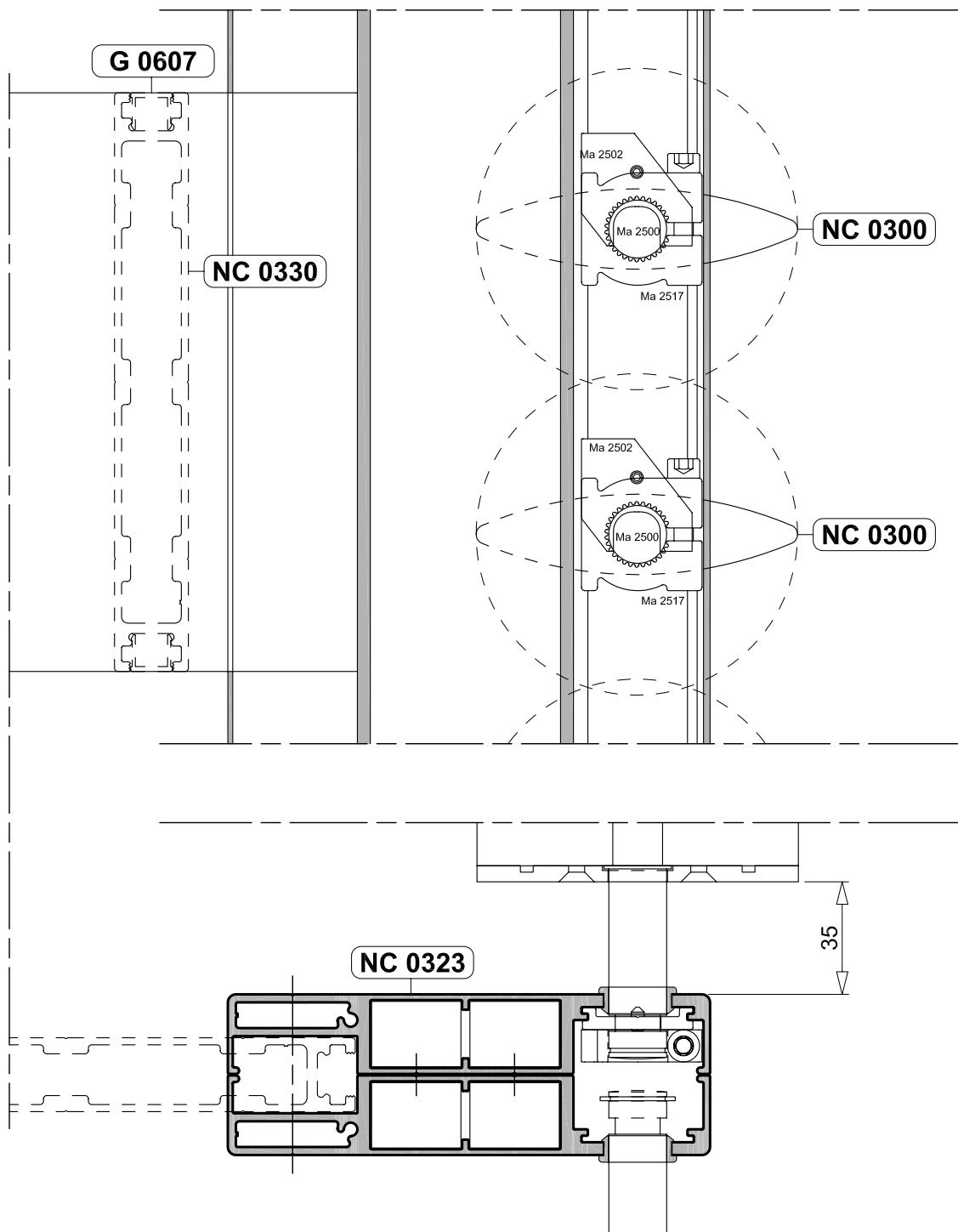
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0300
	150 mm	100 mm

$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$


 SCALA 1:2
 SCALE 1:2

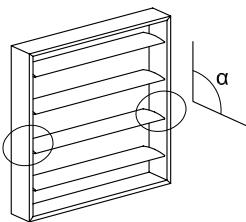


SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	150 mm	100 mm

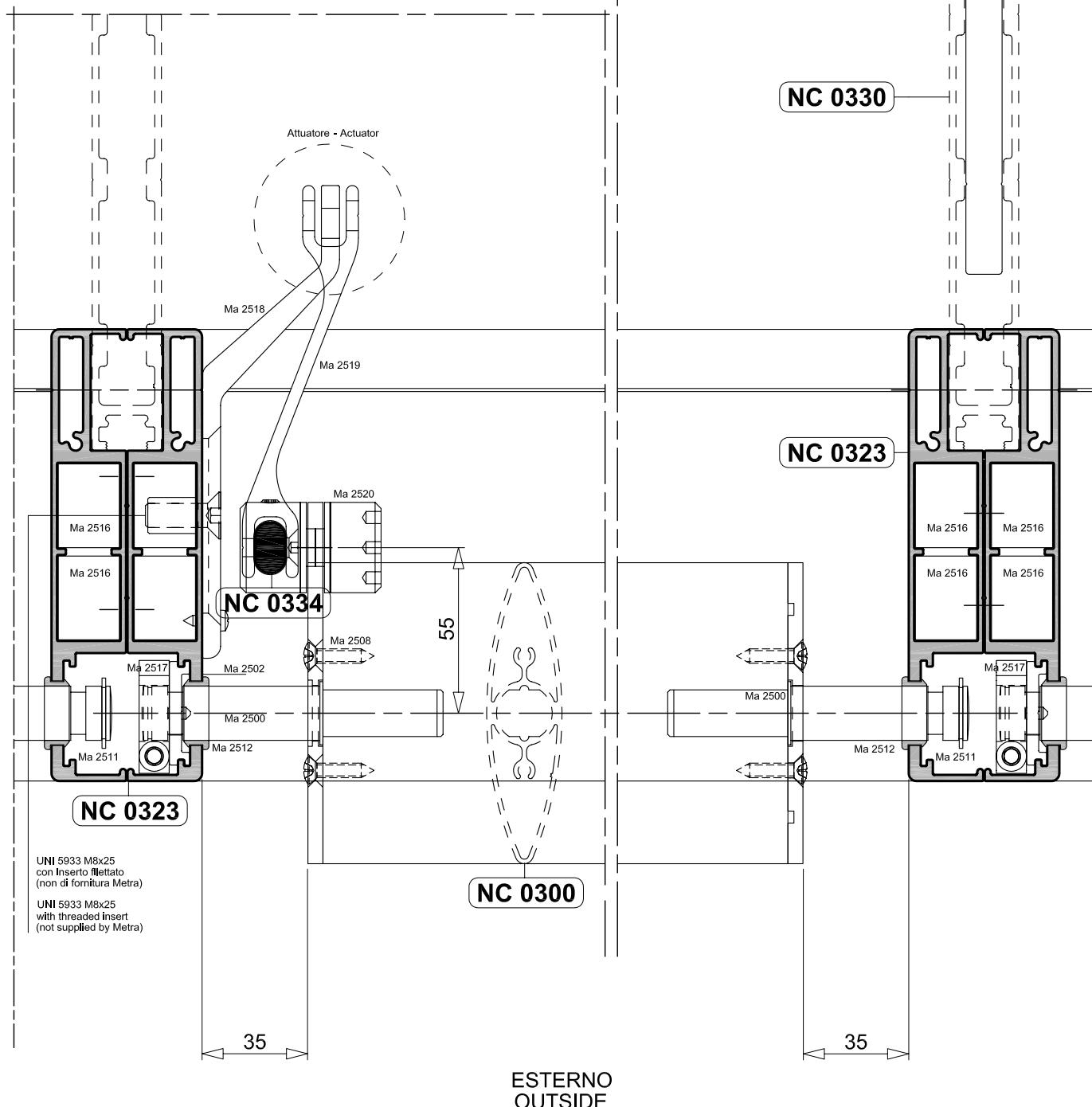


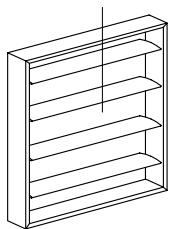
ESTERNO
OUTSIDE

SCALA 1:2
SCALE 1:2

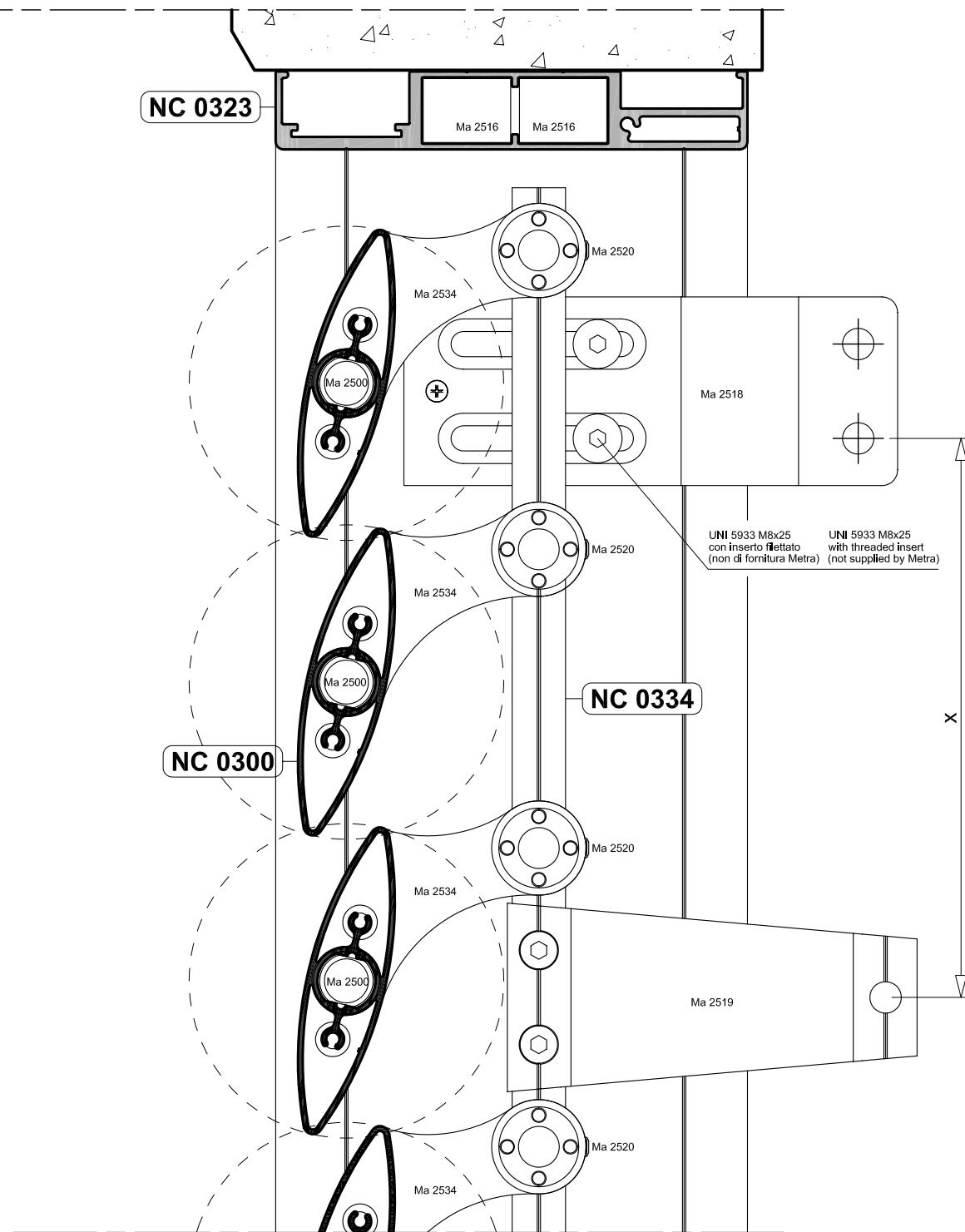


SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0300
	150 mm	100 mm


 SCALA 1:2
SCALE 1:2

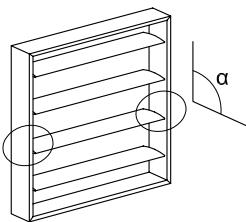


SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLES	NC 0323	NC 0300
	150 mm	100 mm

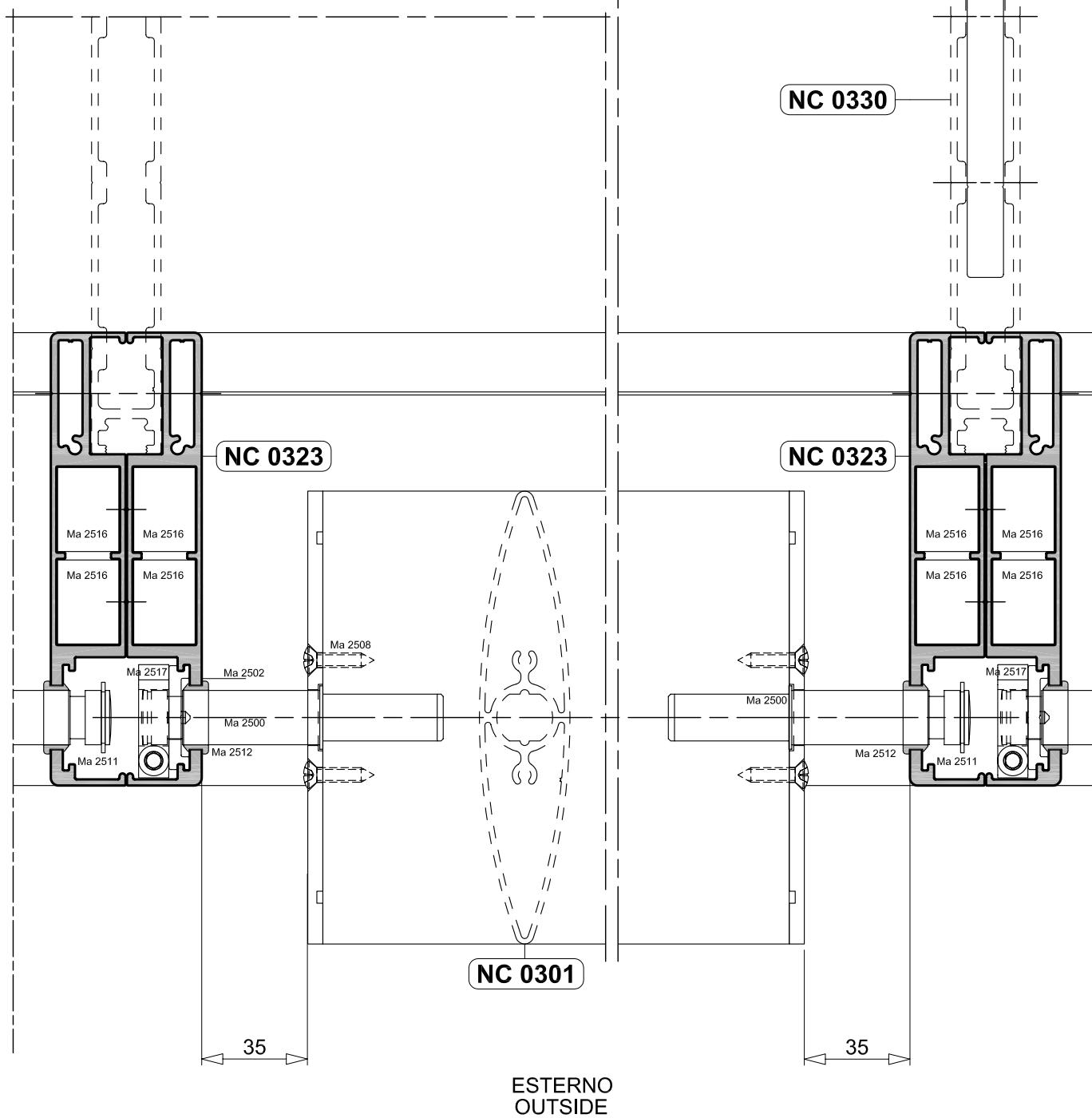
 ESTERNO
OUTSIDE


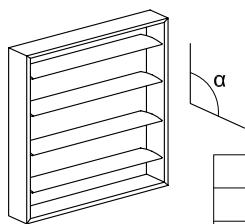
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

 SCALA
SCALE 1:2

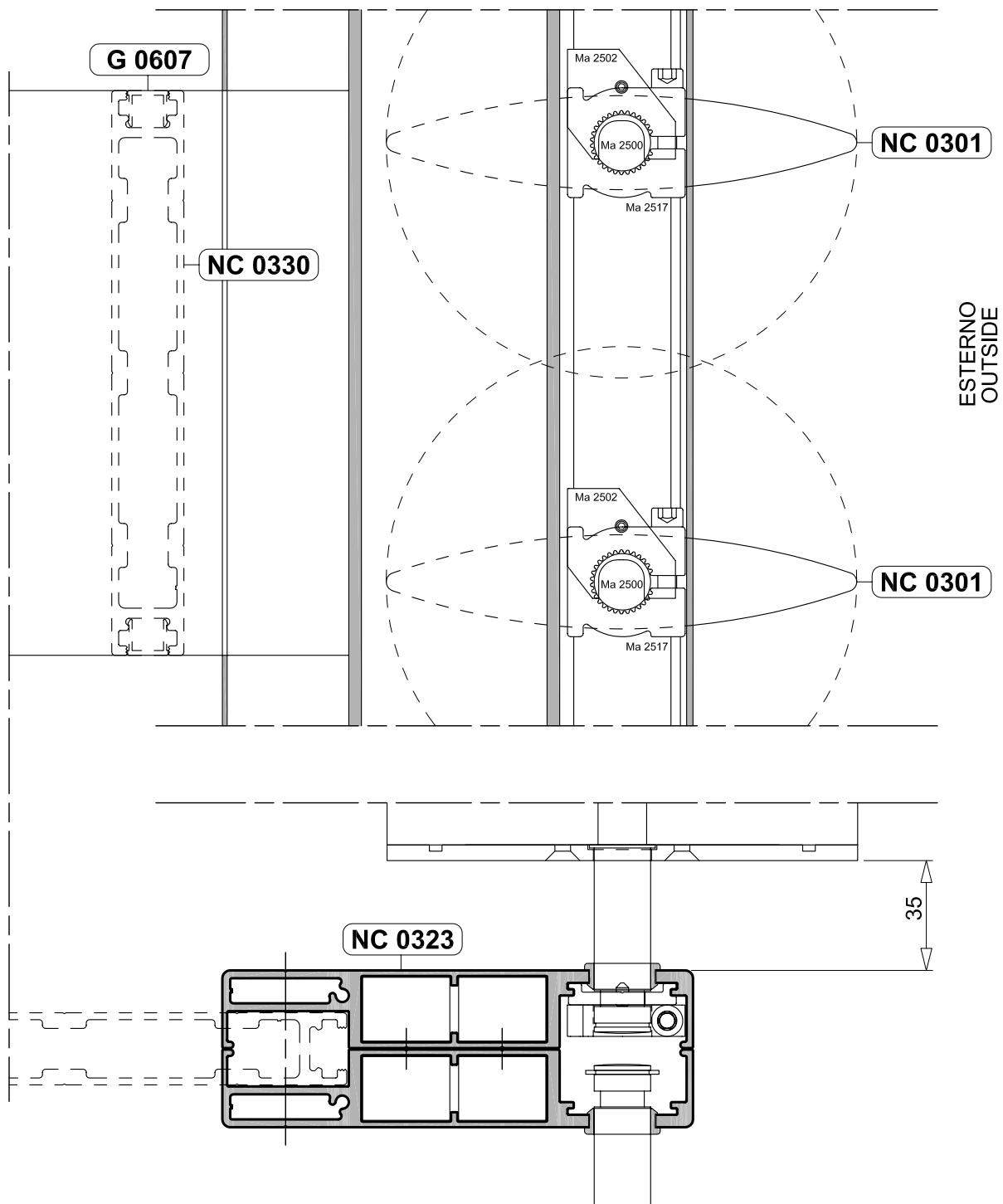


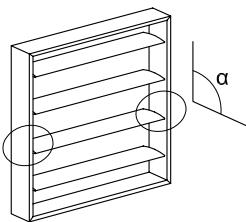
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	150 mm	150 mm


 SCALA 1:2
SCALE 1:2

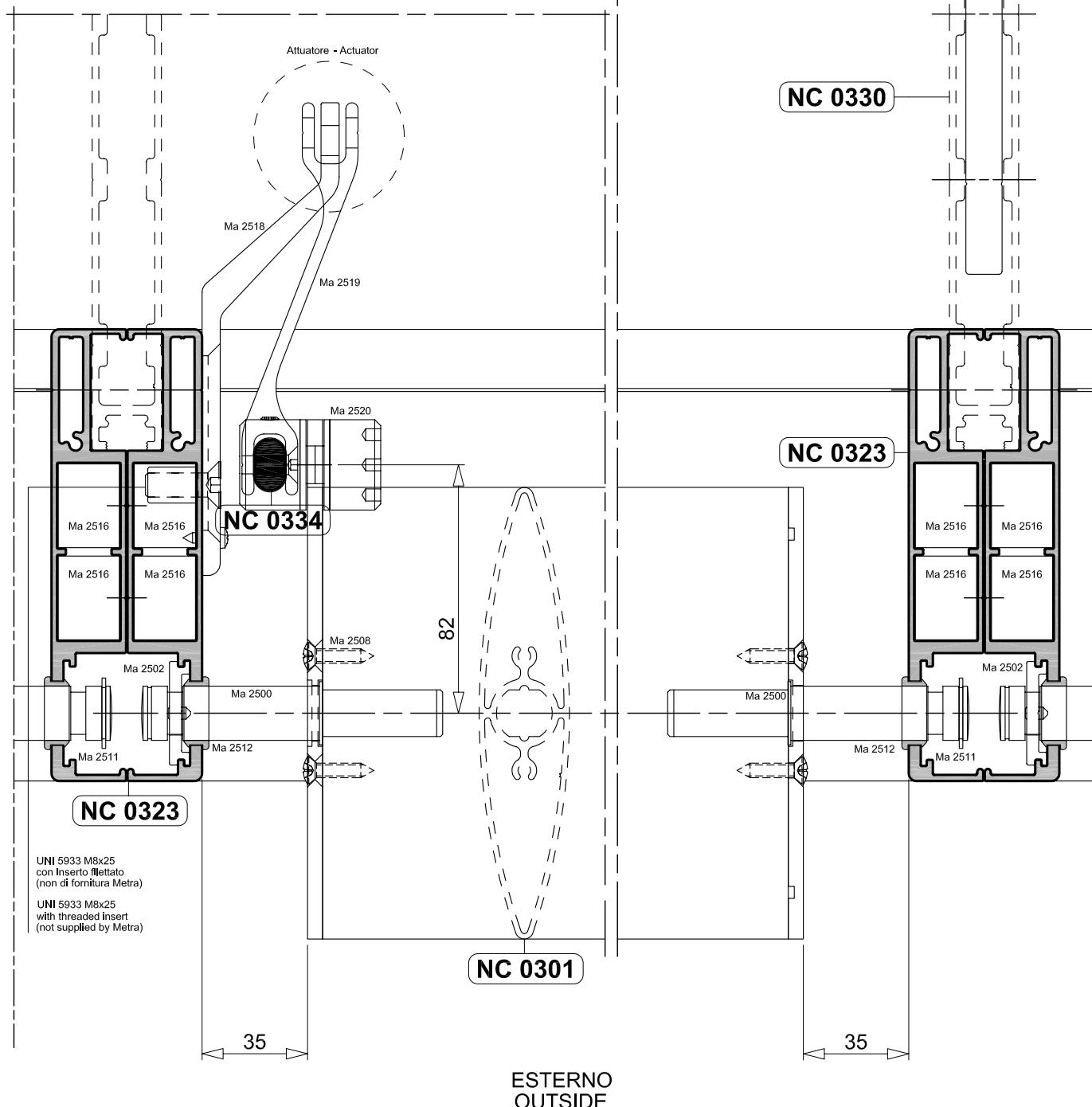


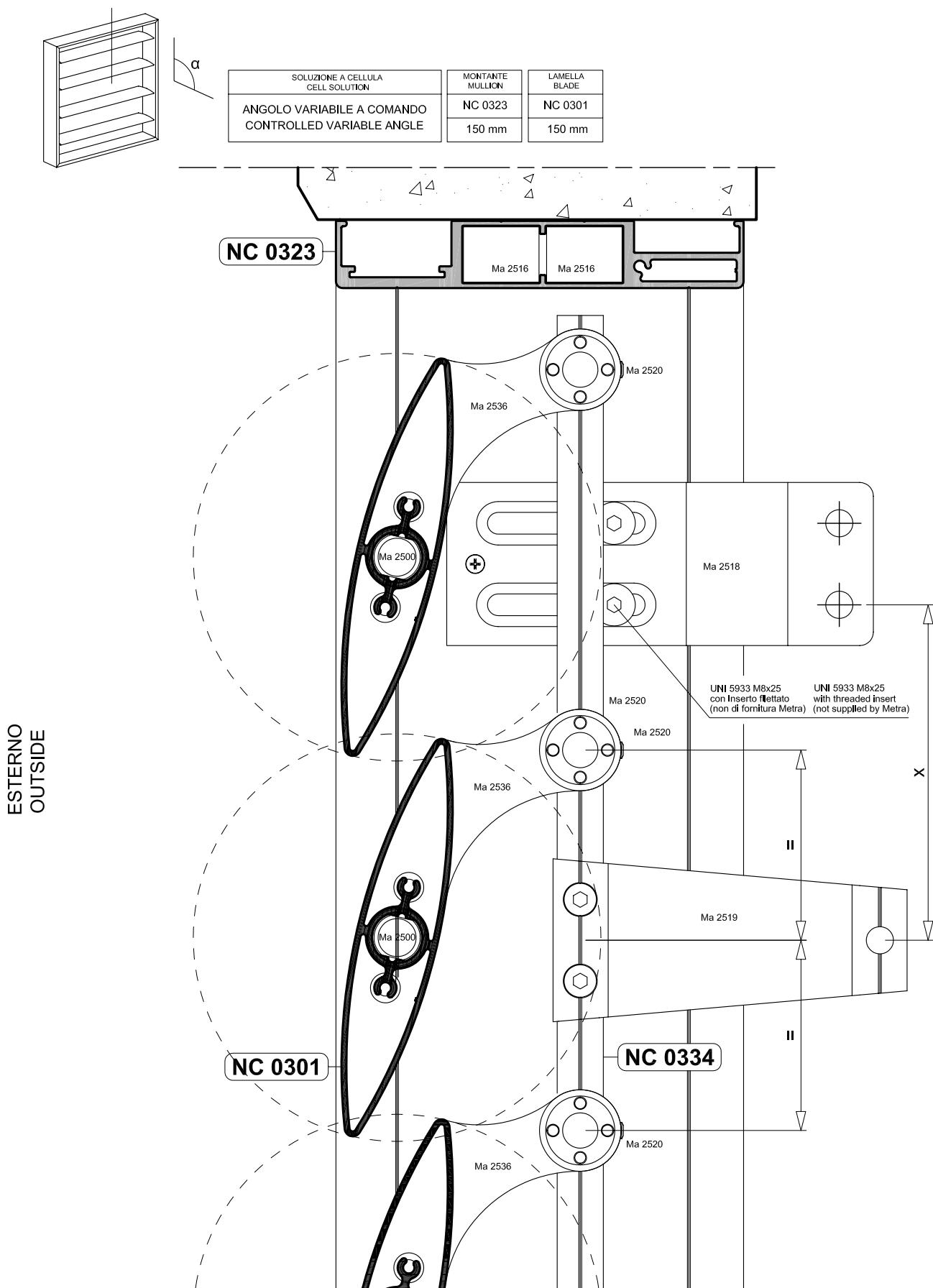
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	150 mm	150 mm

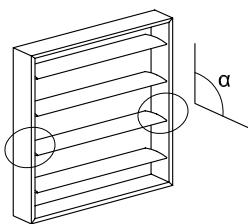

 SCALA 1:2
 SCALE 1:2



SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0301
	150 mm	150 mm

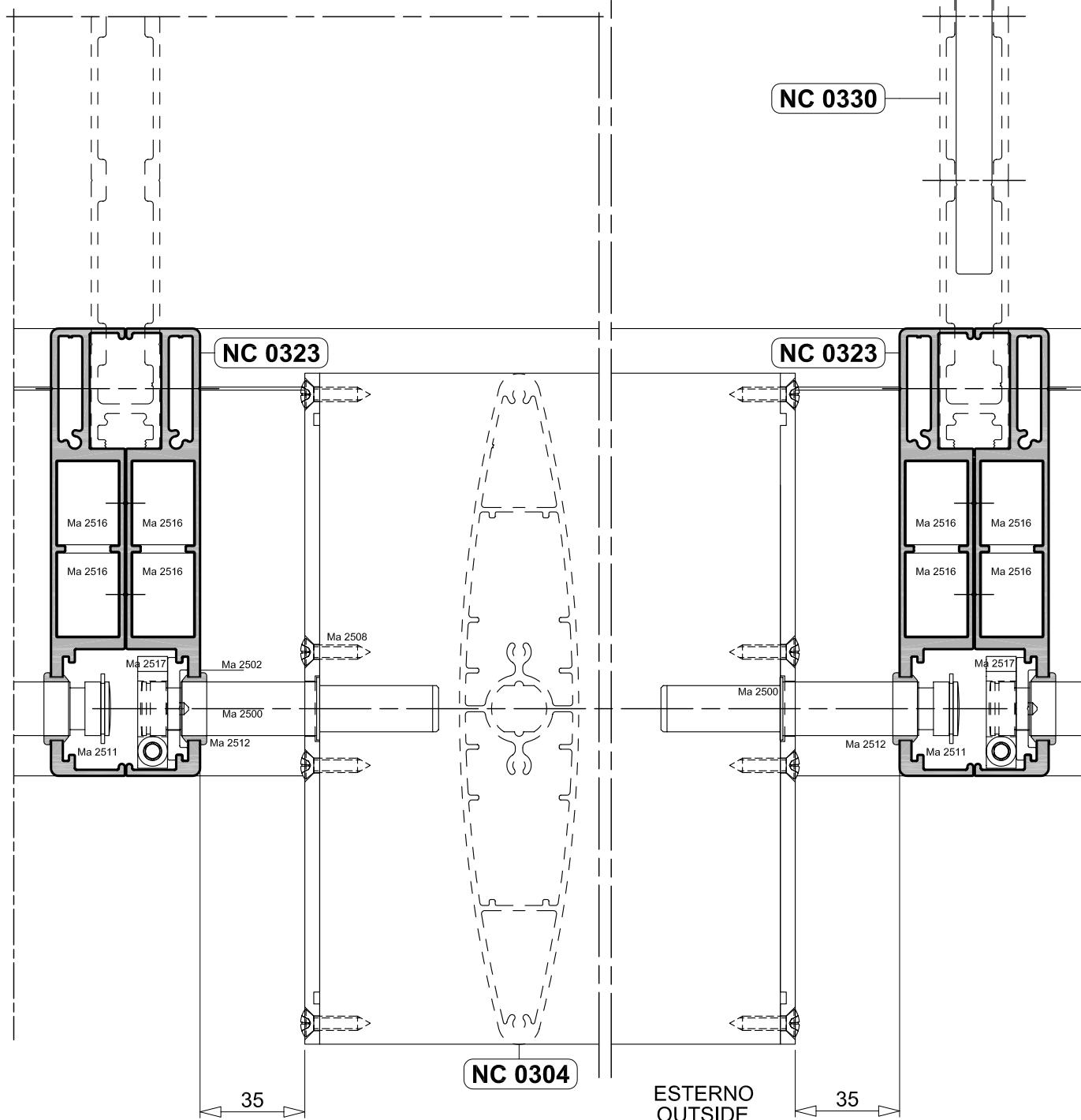



 SCALA
SCALE 1:2

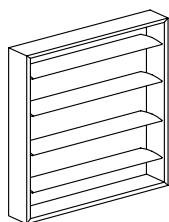


SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0304
	150 mm	225 mm

$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$

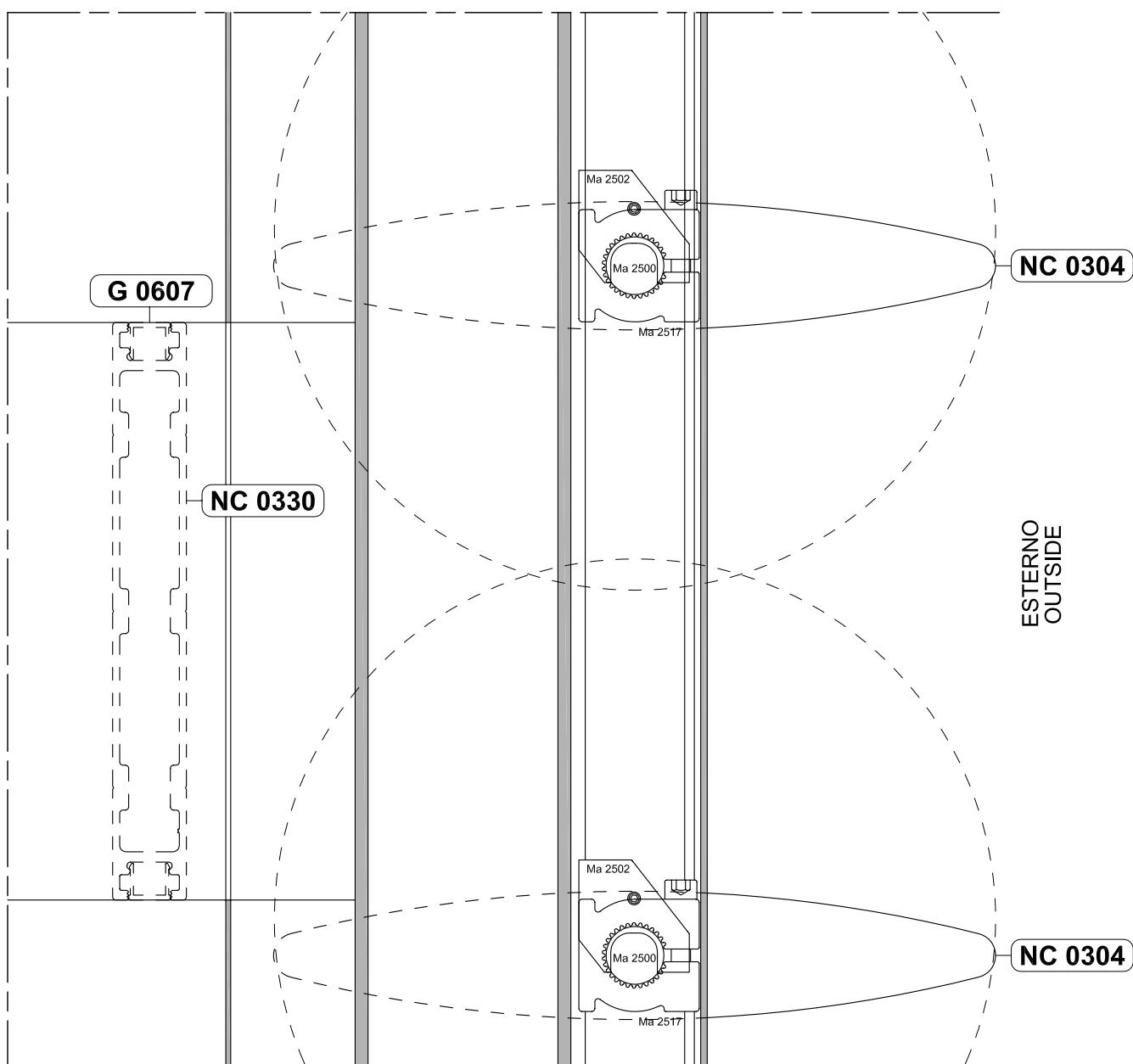


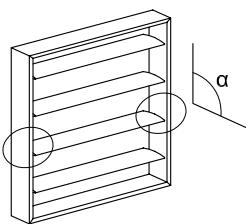
SCALA SCALE 1:2


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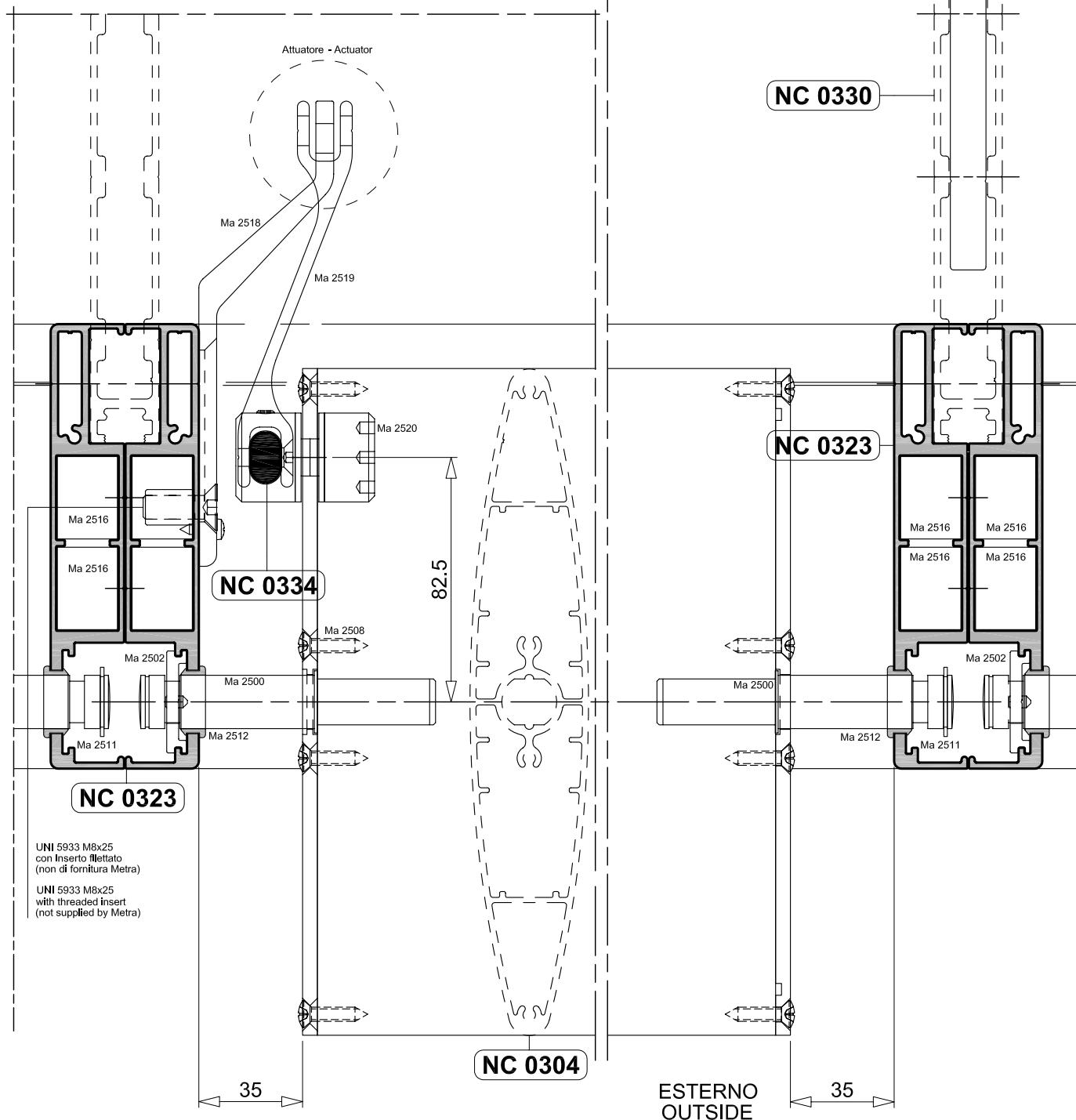
SOLUZIONE A CELLULA CELL SOLUTION
ANGOLI PRESTABILITI PRE-SET ANGLES
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$

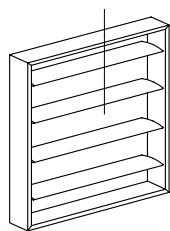
MONTANTE MULLION	LAMELLA BLADE
NC 0323	NC 0304
150 mm	225 mm


SCALA 1:2
SCALE 1:2

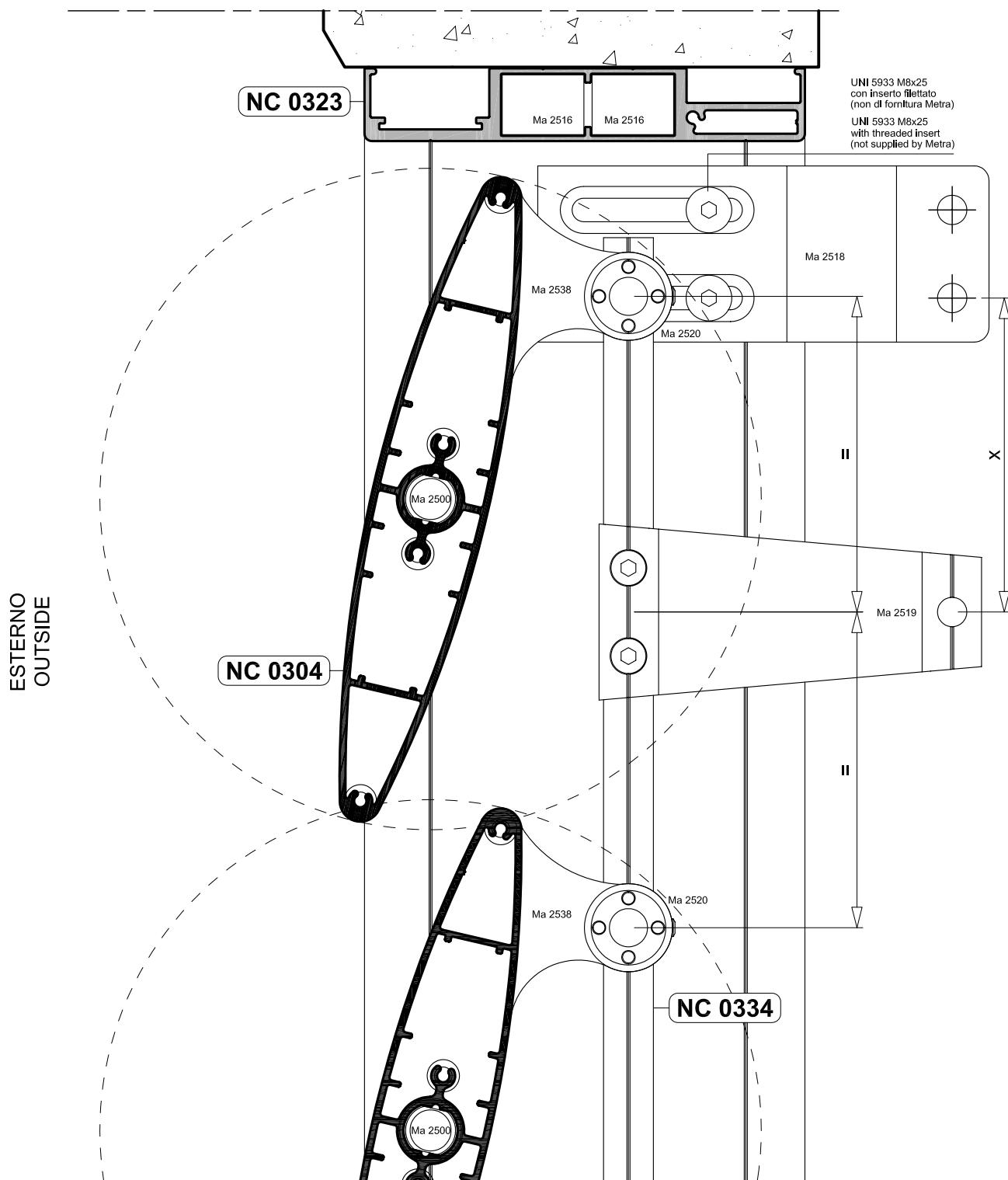


SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0304
	150 mm	225 mm


 SCALA 1:2
SCALE 1:2

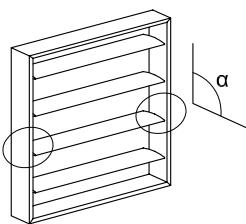


SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0304
	150 mm	225 mm

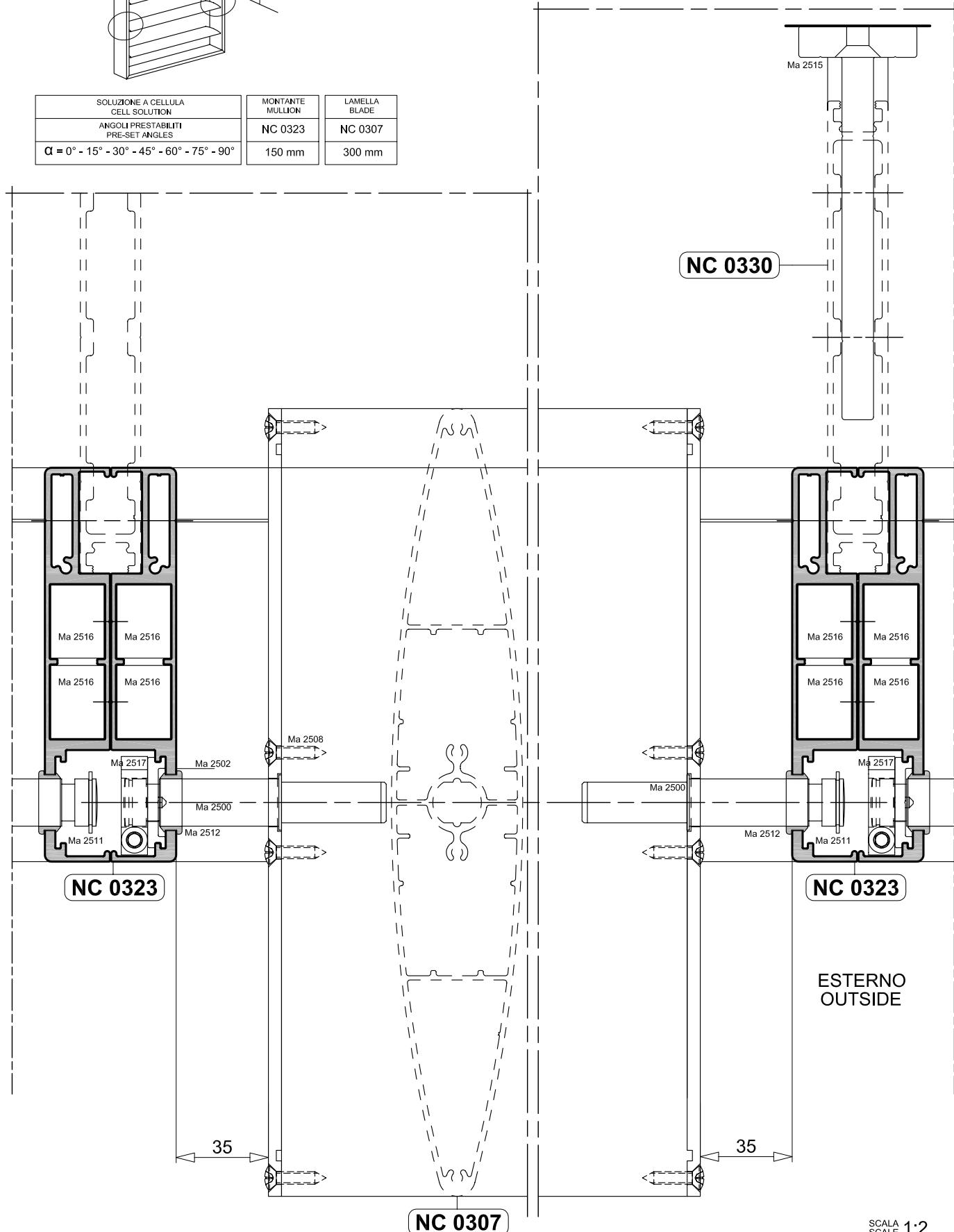


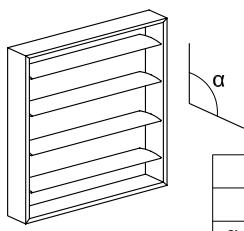
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

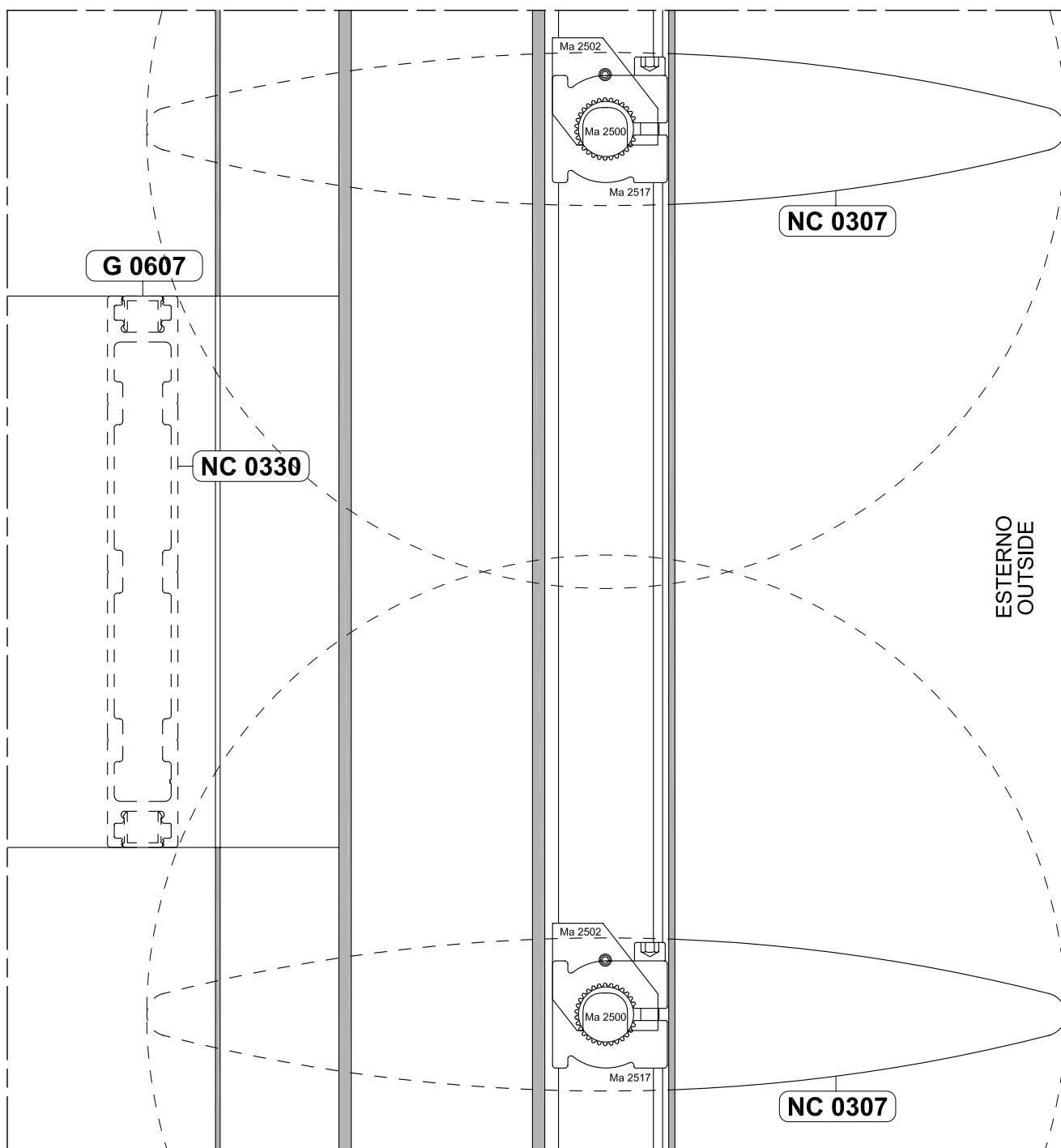


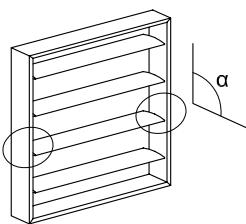
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0307
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	150 mm	300 mm


 SCALA
SCALE 1:2

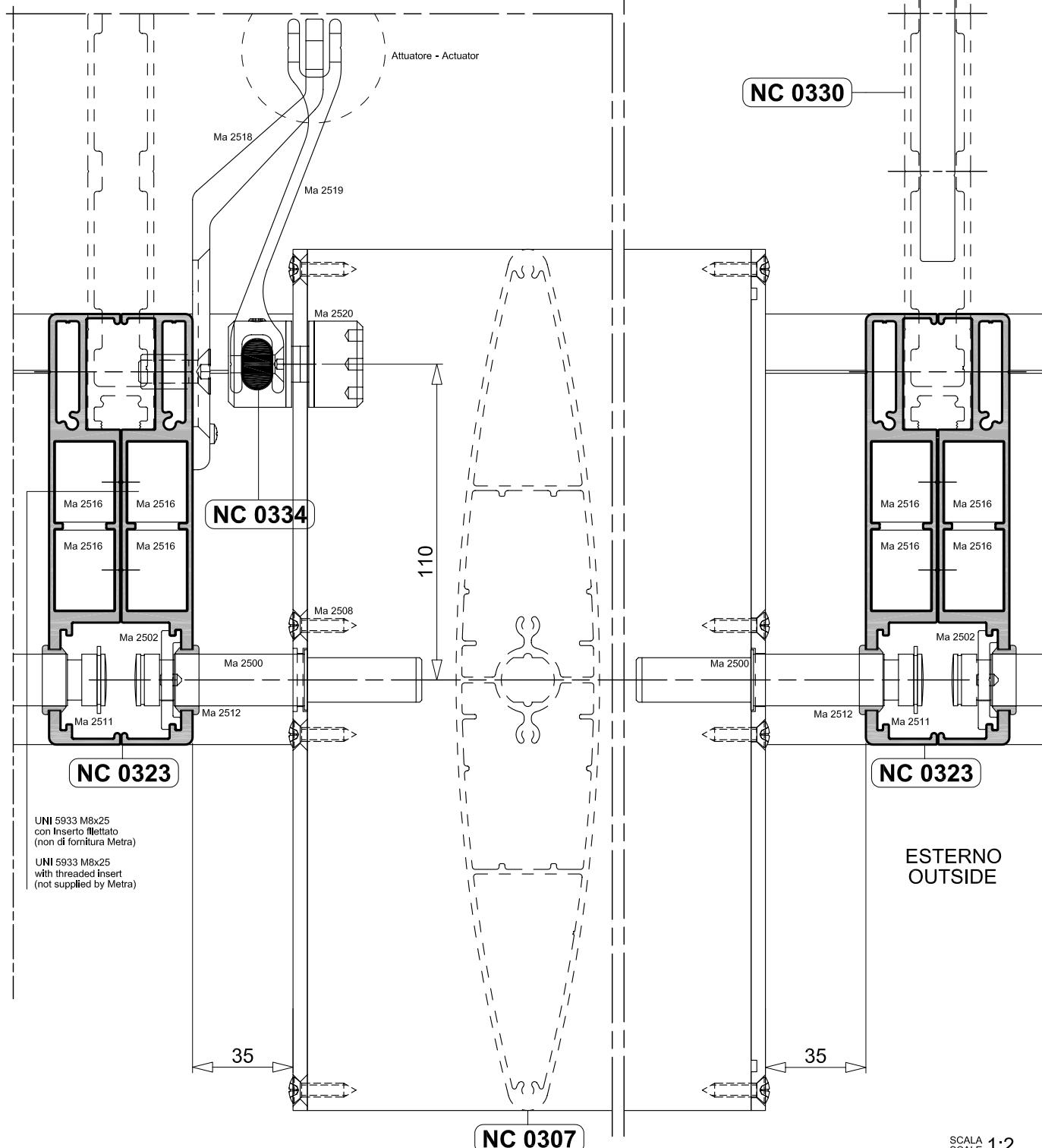


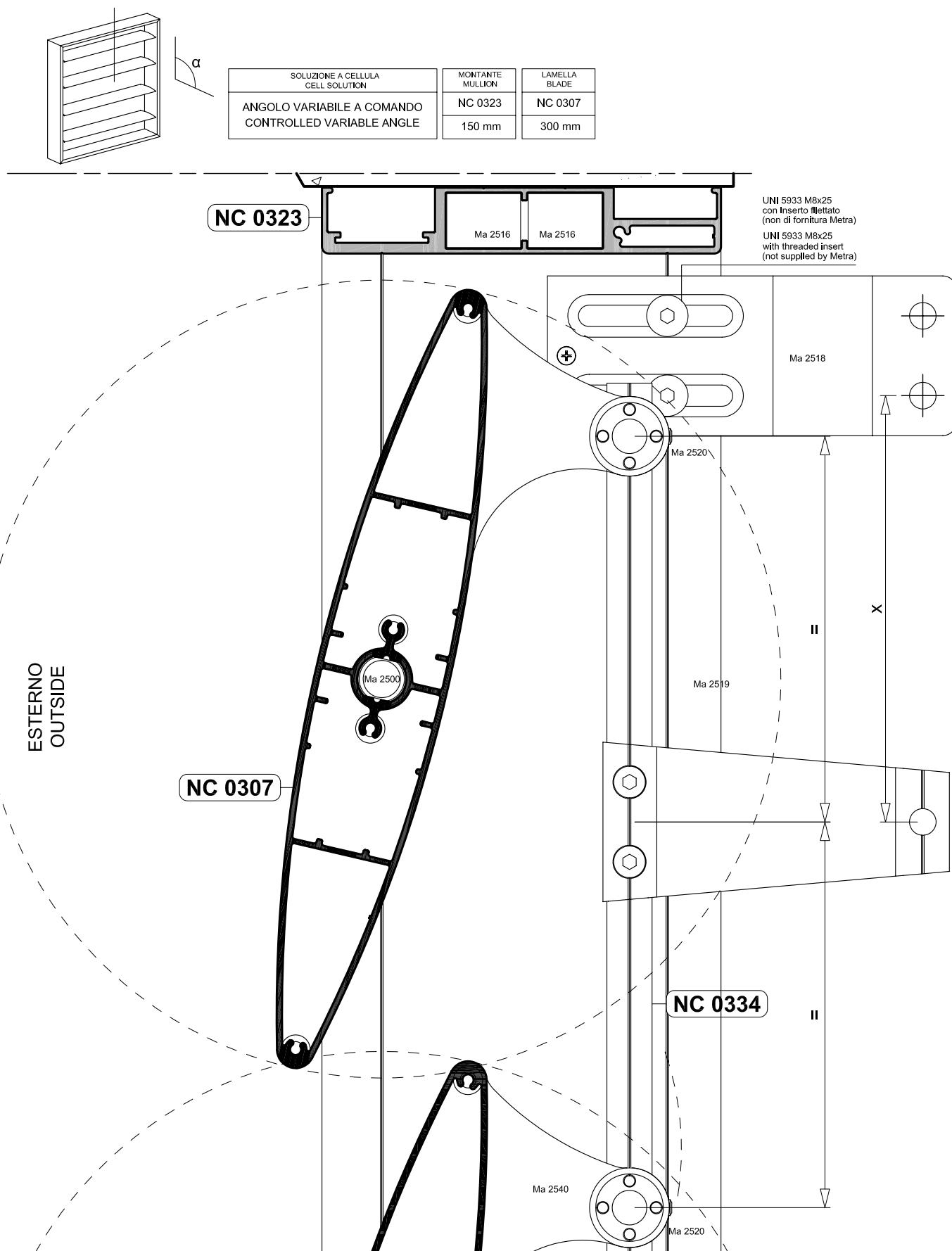
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI PRESTABILITI PRE-SET ANGLES	NC 0323	NC 0307
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	150 mm	300 mm


SCALA 1:2
SCALE 1:2



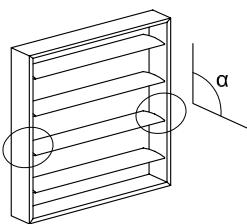
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0307
	150 mm	300 mm



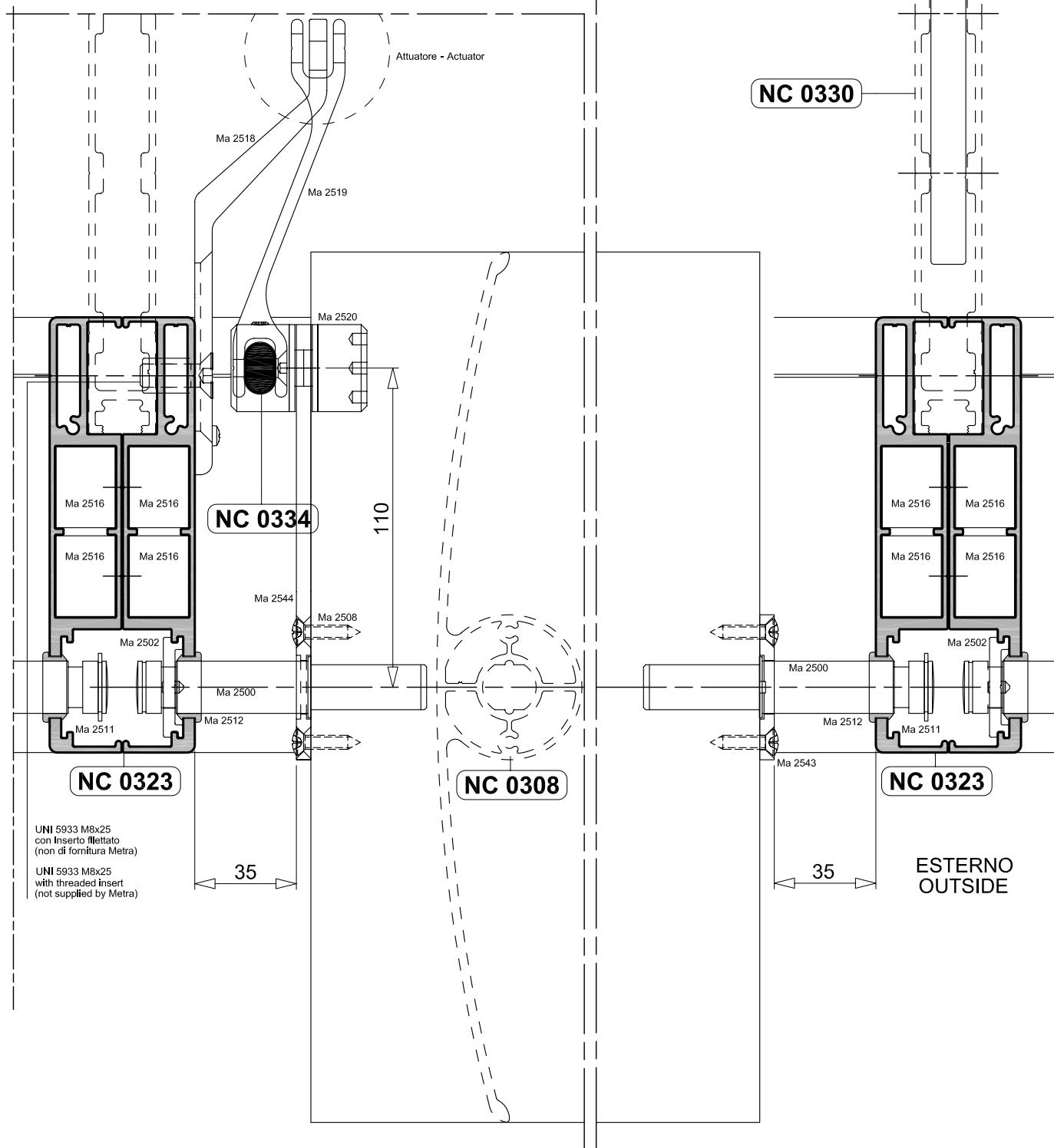


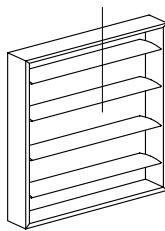
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

SCALA 1:2
 SCALE 1:2



SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0308
	150 mm	300 mm





SOLUZIONE A CELLA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0308
	150 mm	300 mm

NC 0323

Ma 2516 Ma 2516

UNI 5933 M8x25
con Inserto flettito
(non di fornitura Metra)
UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

NC 0308

 ESTERNO
OUTSIDE

Ma 2519

NC 0334

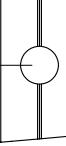
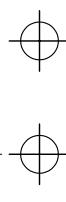
Ma 2540

Ma 2520

II

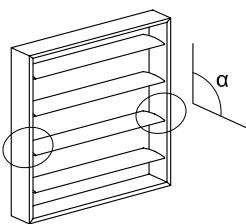
II

X

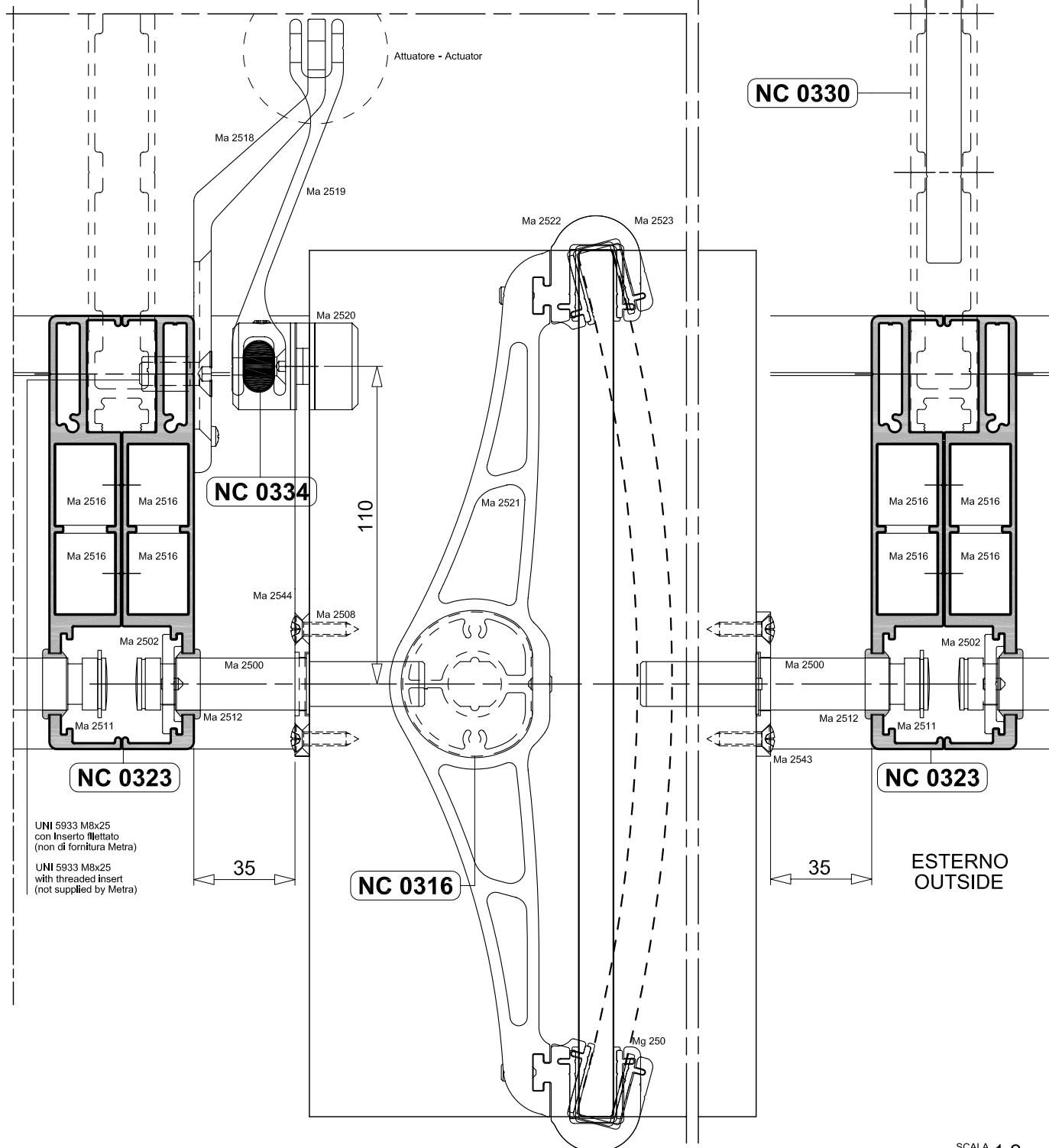


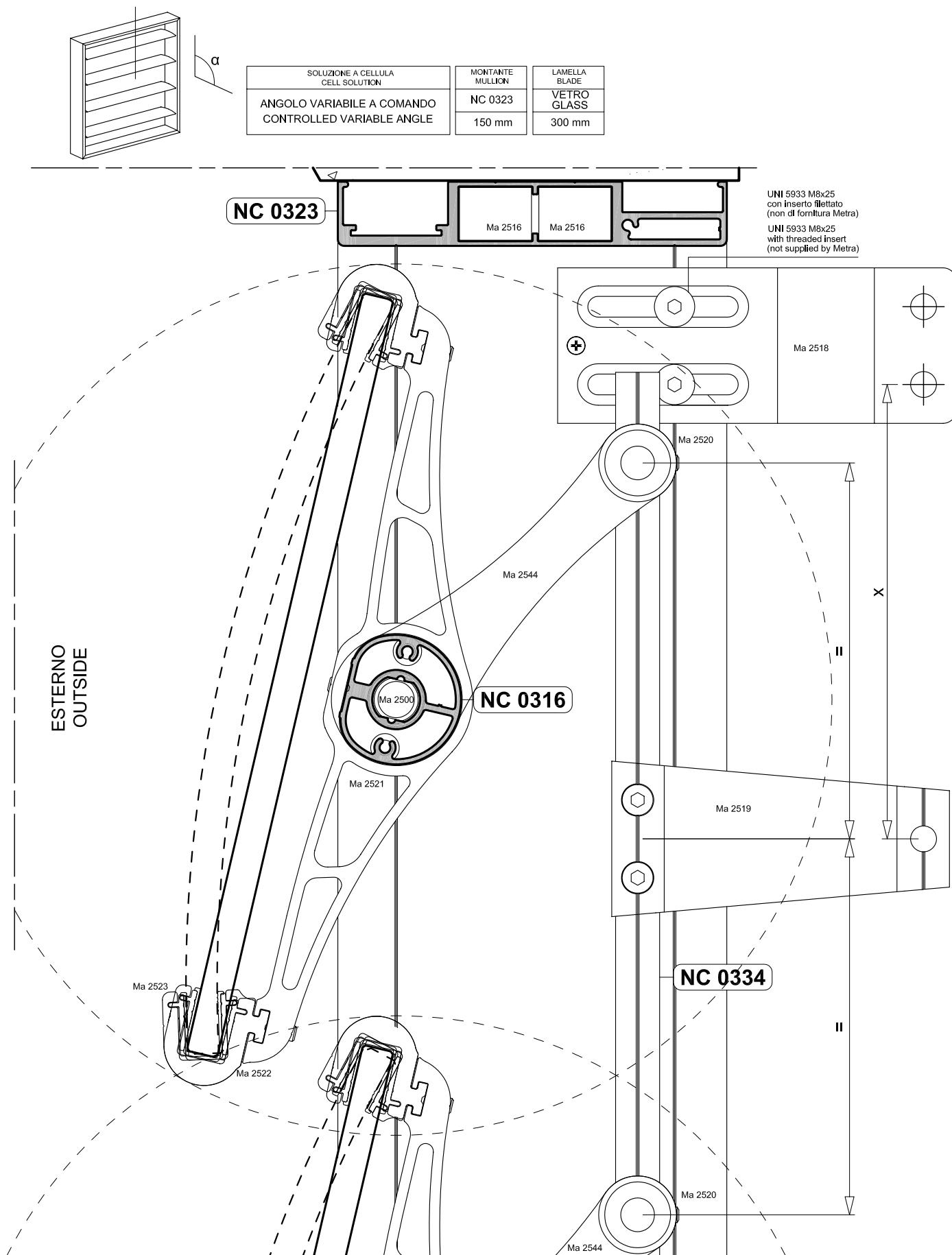
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

 SCALA
SCALE 1:2



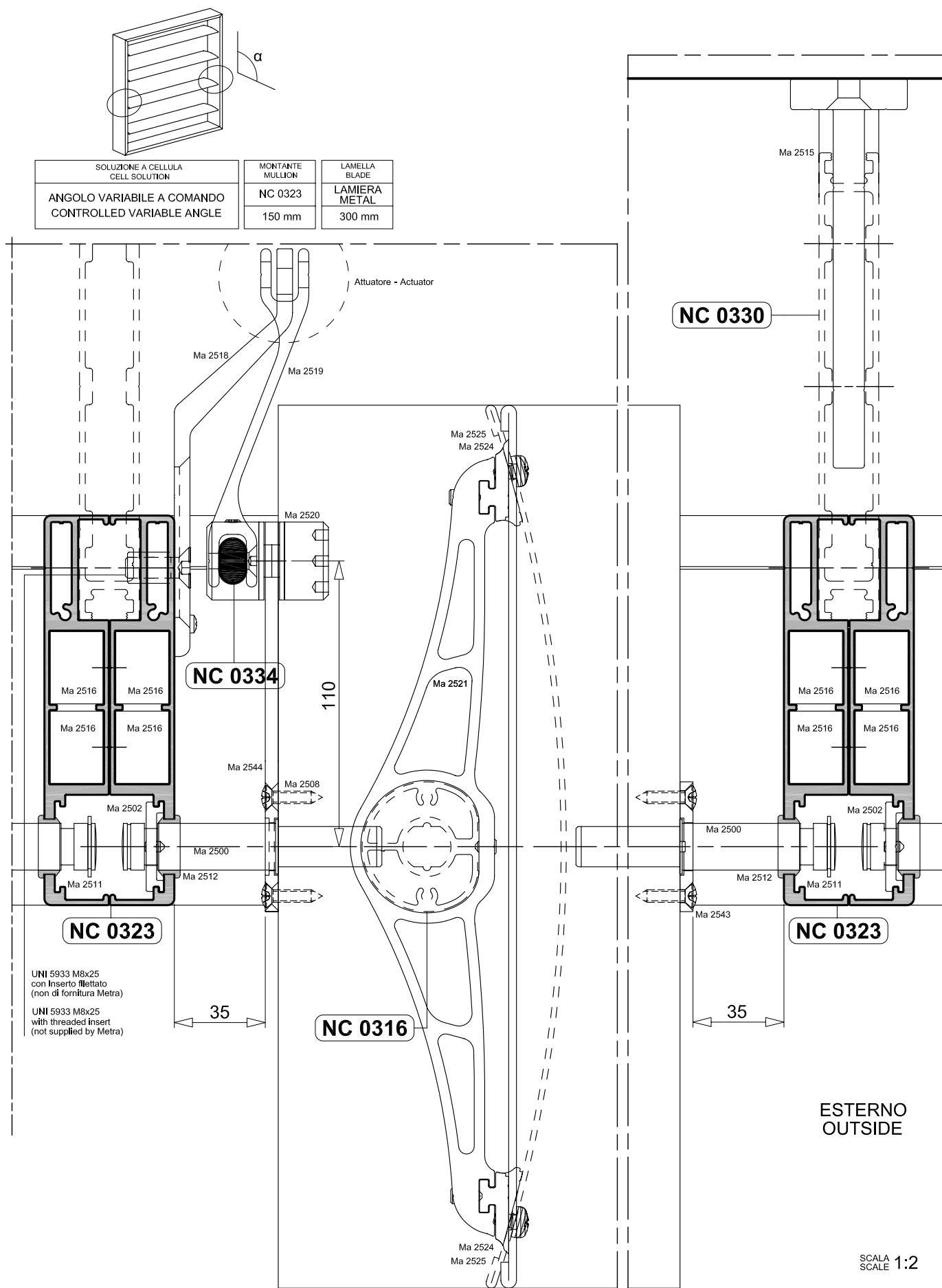
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLI VARIABILI A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	VETRO GLASS
	150 mm	300 mm

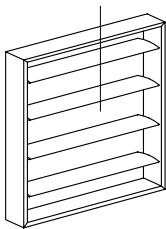

 SCALA
SCALE 1:2



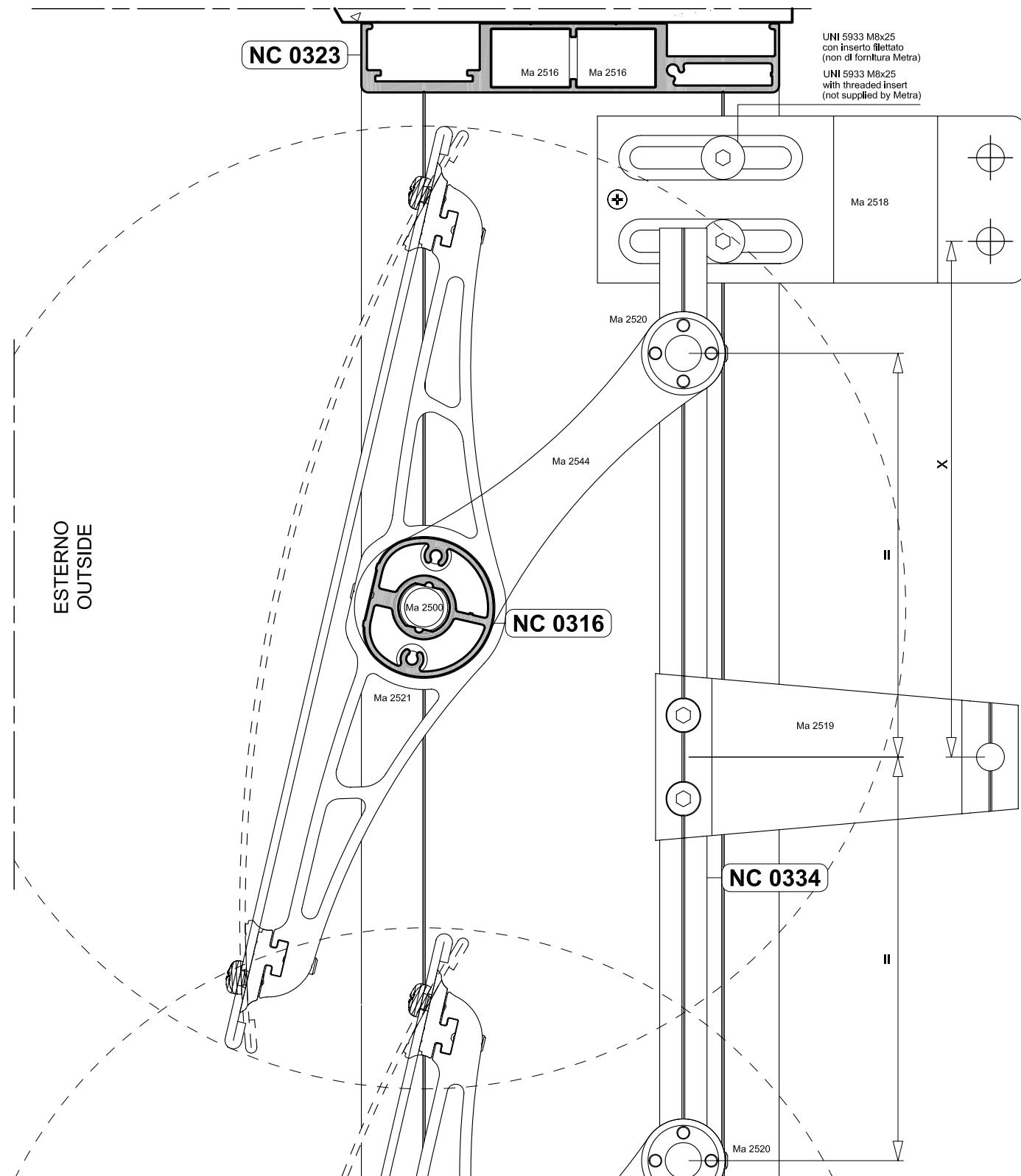
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

SCALA 1:2
 SCALE 1:2



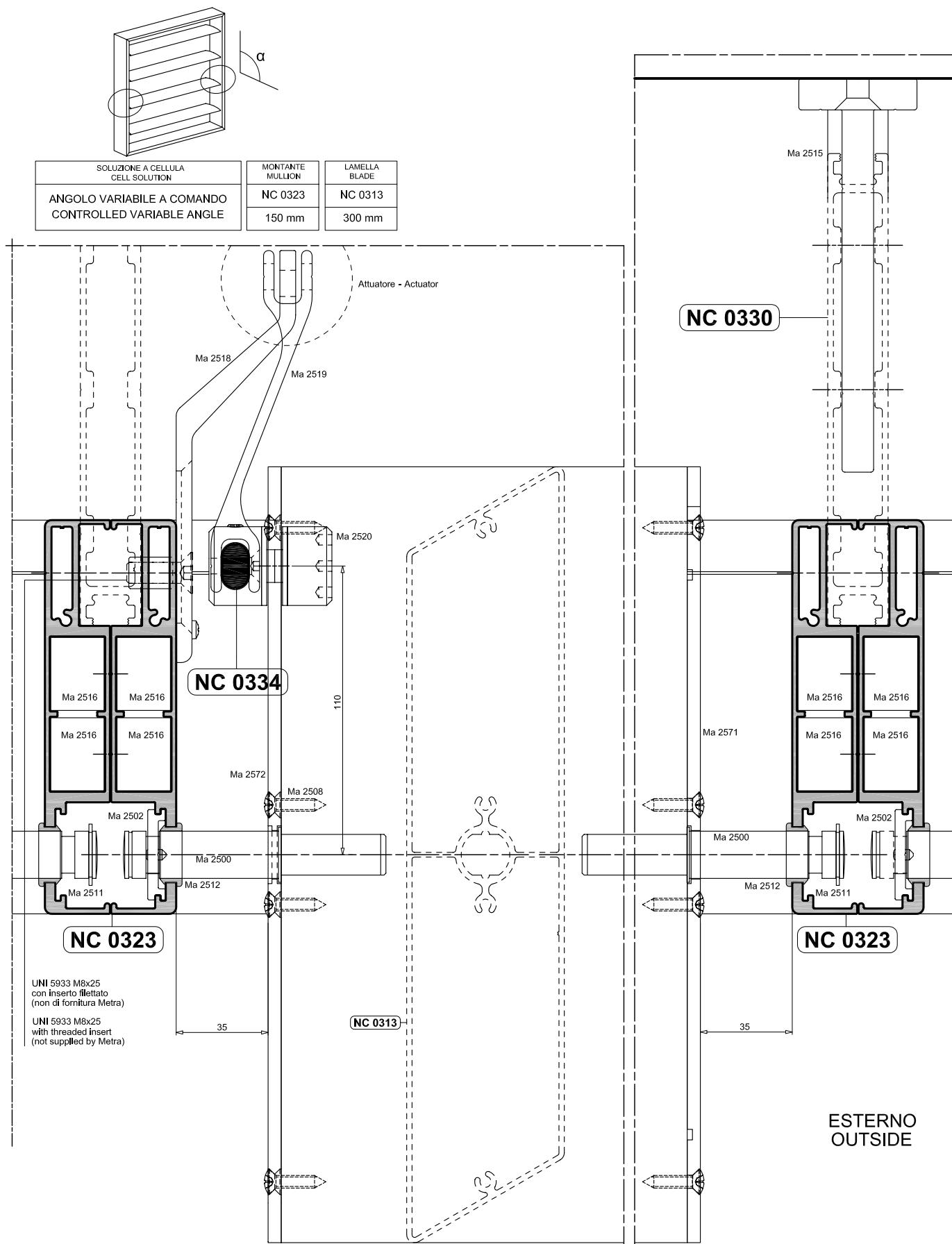


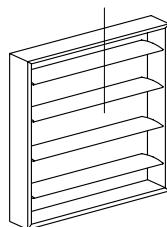
SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLO VARIABILE A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	LAMIERA METAL
	150 mm	300 mm



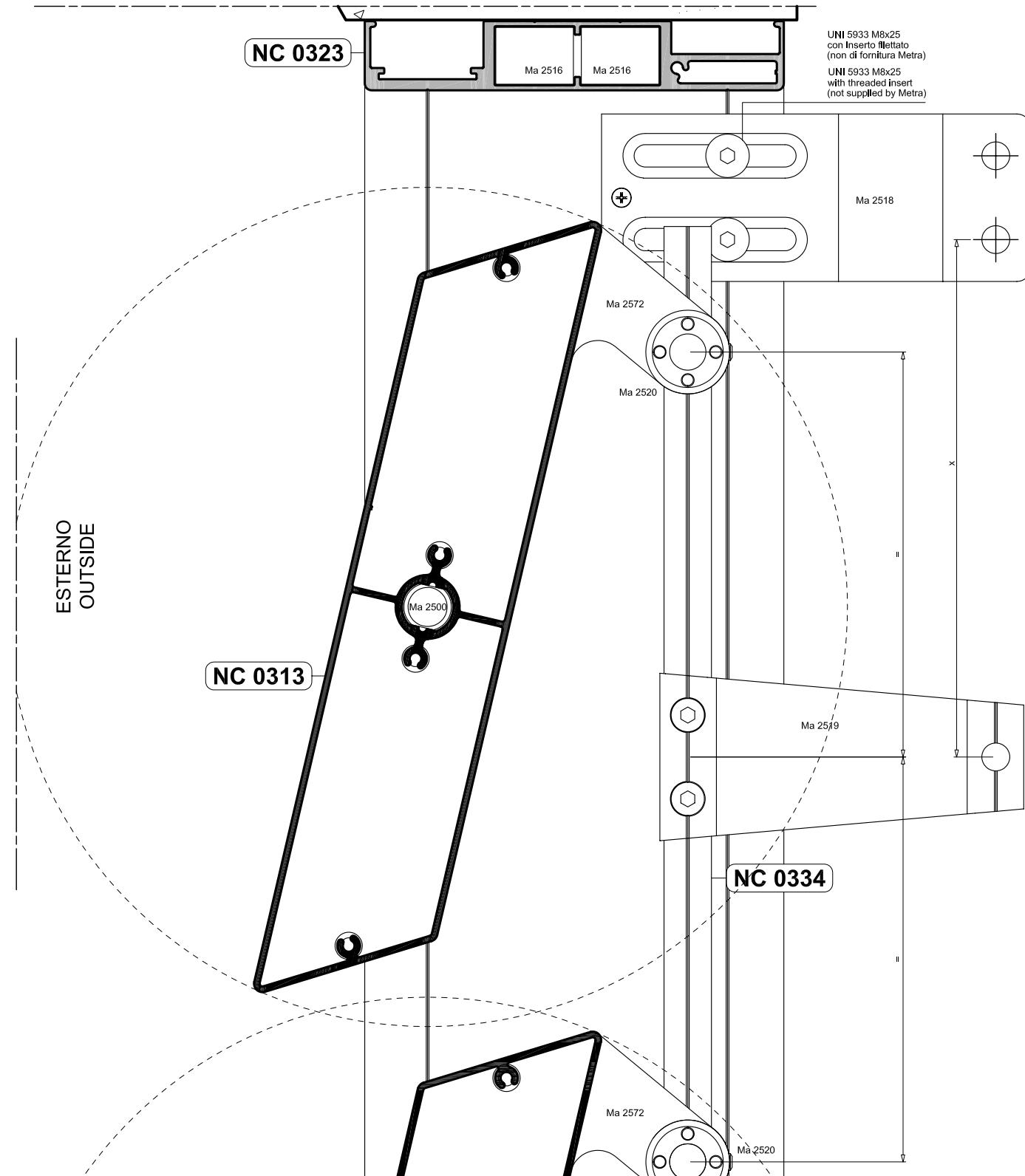
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

SCALA 1:2
 SCALE 1:2


 SCALA 1:2
SCALE 1:2

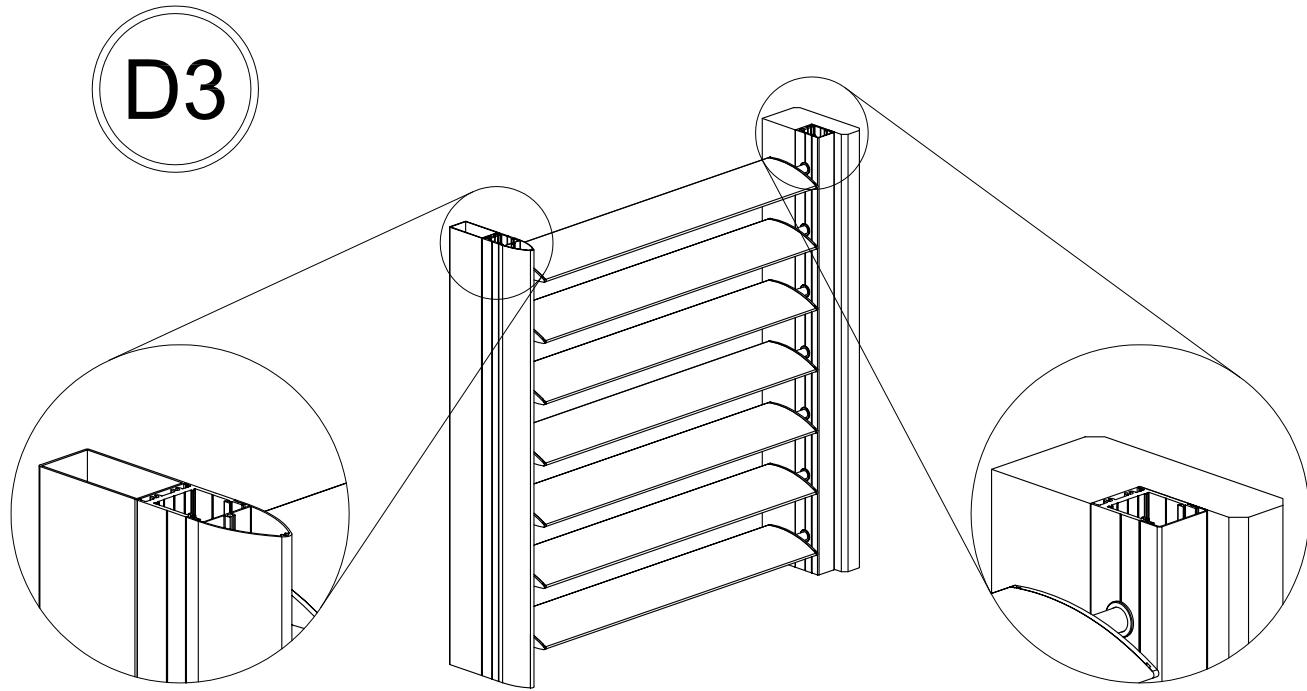

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SOLUZIONE A CELLULA CELL SOLUTION	MONTANTE MULLION	LAMELLA BLADE
ANGOLO VARIABILE A COMANDO CONTROLLED VARIABLE ANGLE	NC 0323	NC 0313
	150 mm	300 mm



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

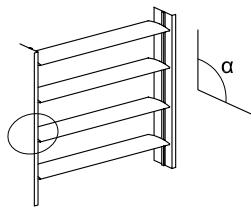


Frangisole orizzontale. Angoli prestabiliti e variabili. Collegabile frontalmente e lateralmente alla muratura ed alle sottostrutture in acciaio.
Horizontal sunblade. Pre-set and variable orientation. Can be fixed by front and lateral application to a steel understructure and to the wall.

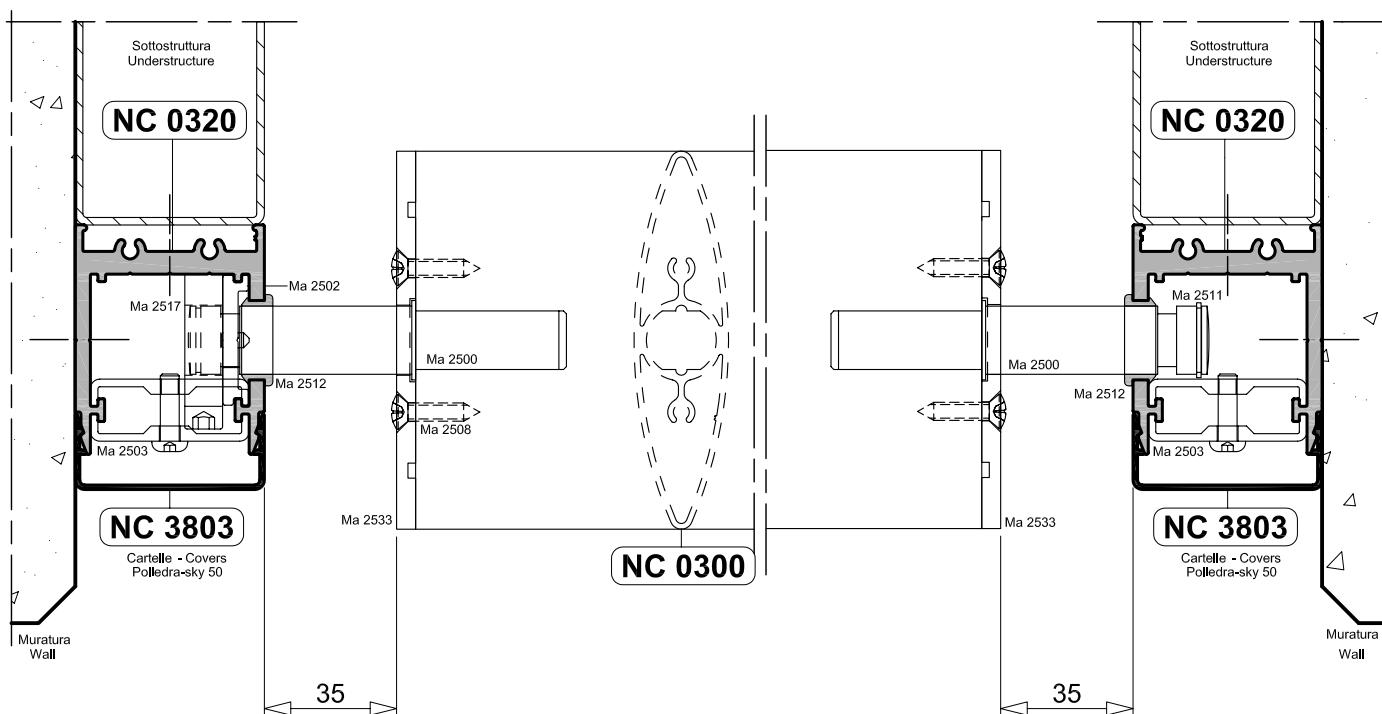
**FRANGISOLE ORIZZONTALE
SEZIONI
HORIZONTAL SUNBLADE
SECTIONS**

- GRUPPO D3
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

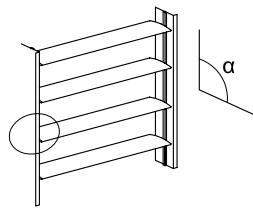
- GROUP D3
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS



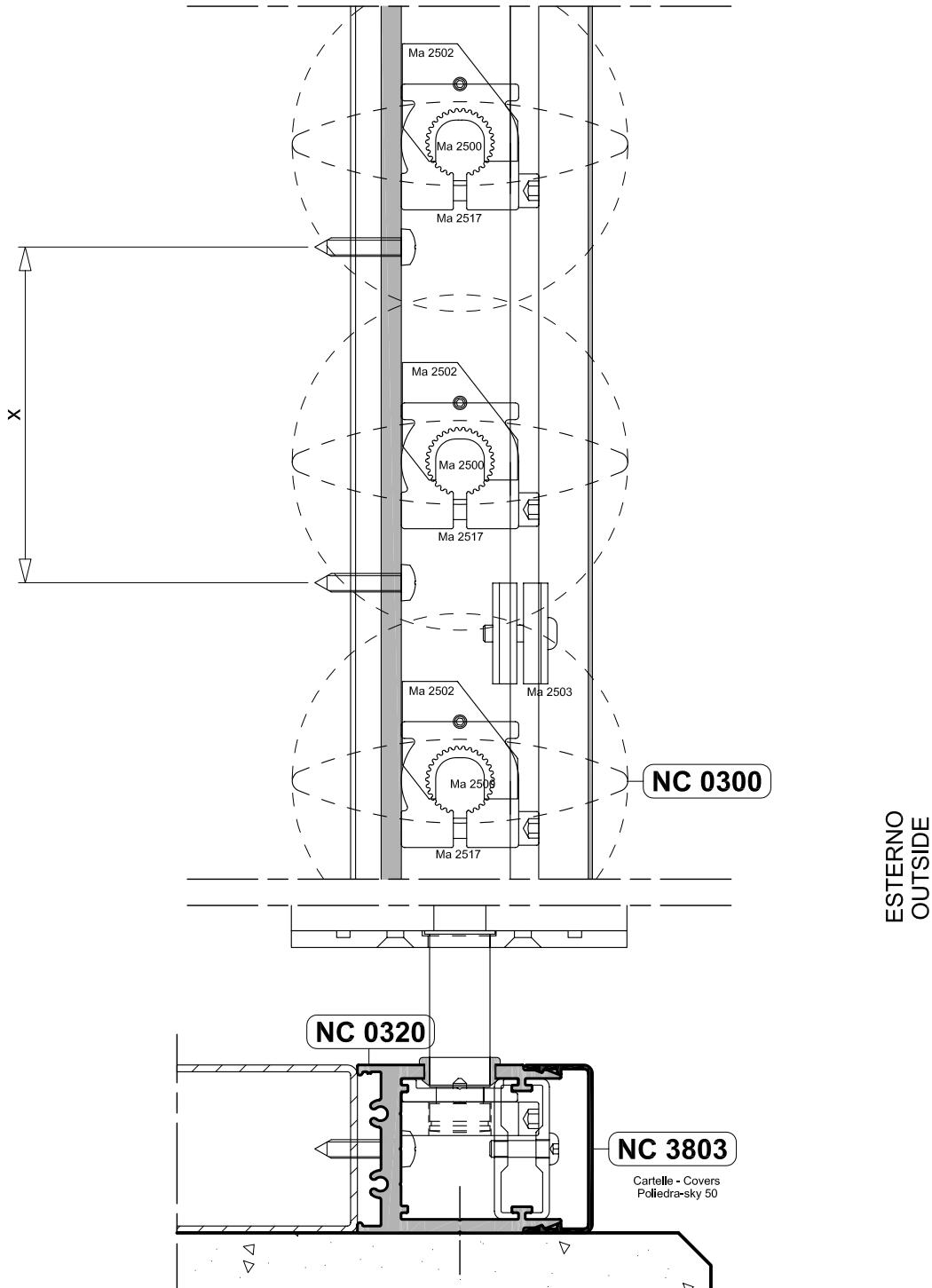
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLI PRESTABILITI SINGLE MULLION - PRE-SET ANGLES	NC 0320	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	70 mm	100 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

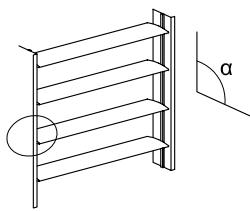


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		
MONTANTE MULLION	LAMELLA BLADE	
NC 0320	NC 0300	
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$		70 mm 100 mm



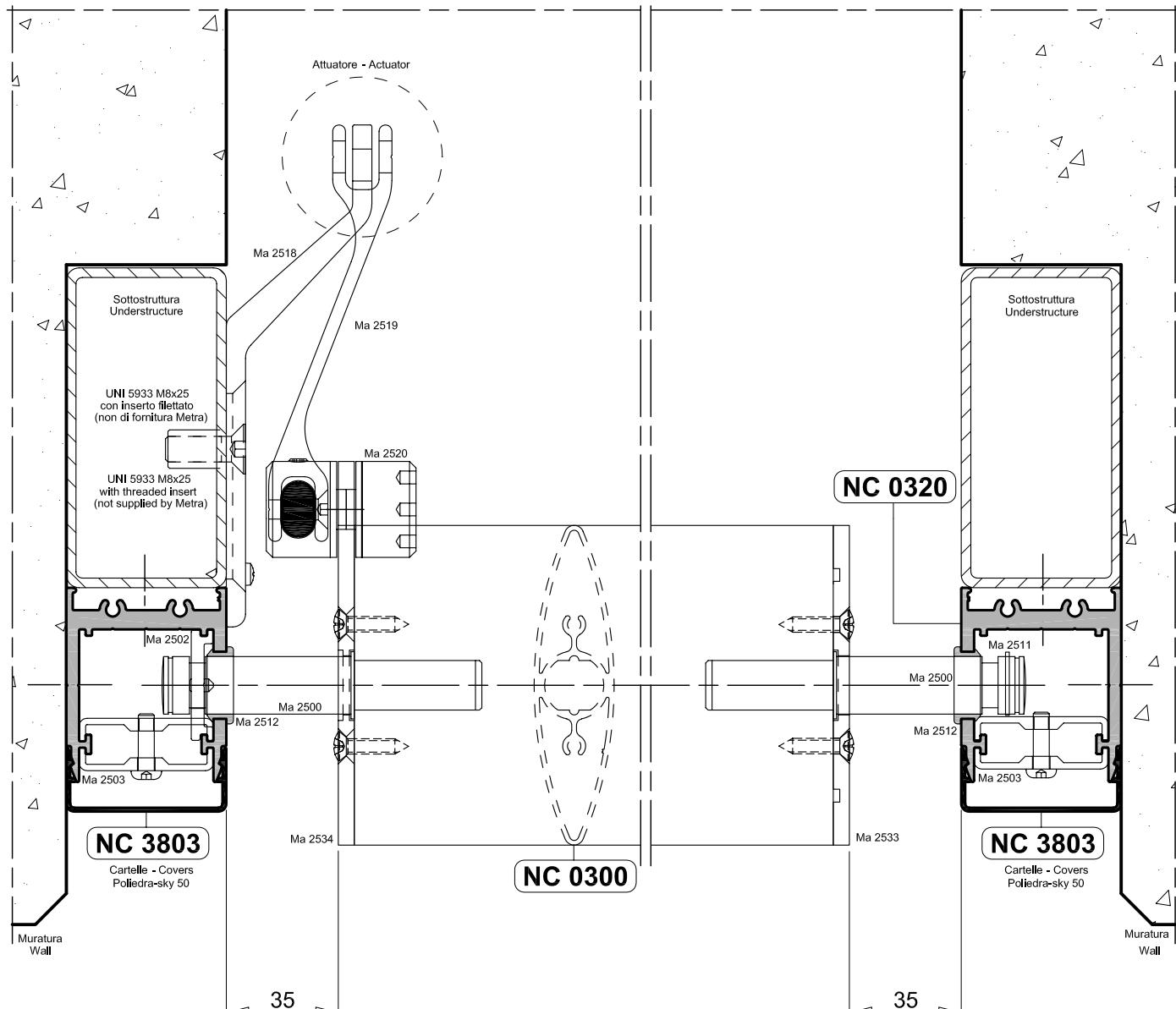
x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

SCALA
SCALE 1:2

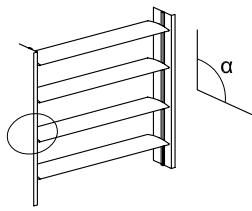


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO SINGLE MULLION - CONTROLLED VARIABLE ANGLE	NC 0320	NC 0300

70 mm 100 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

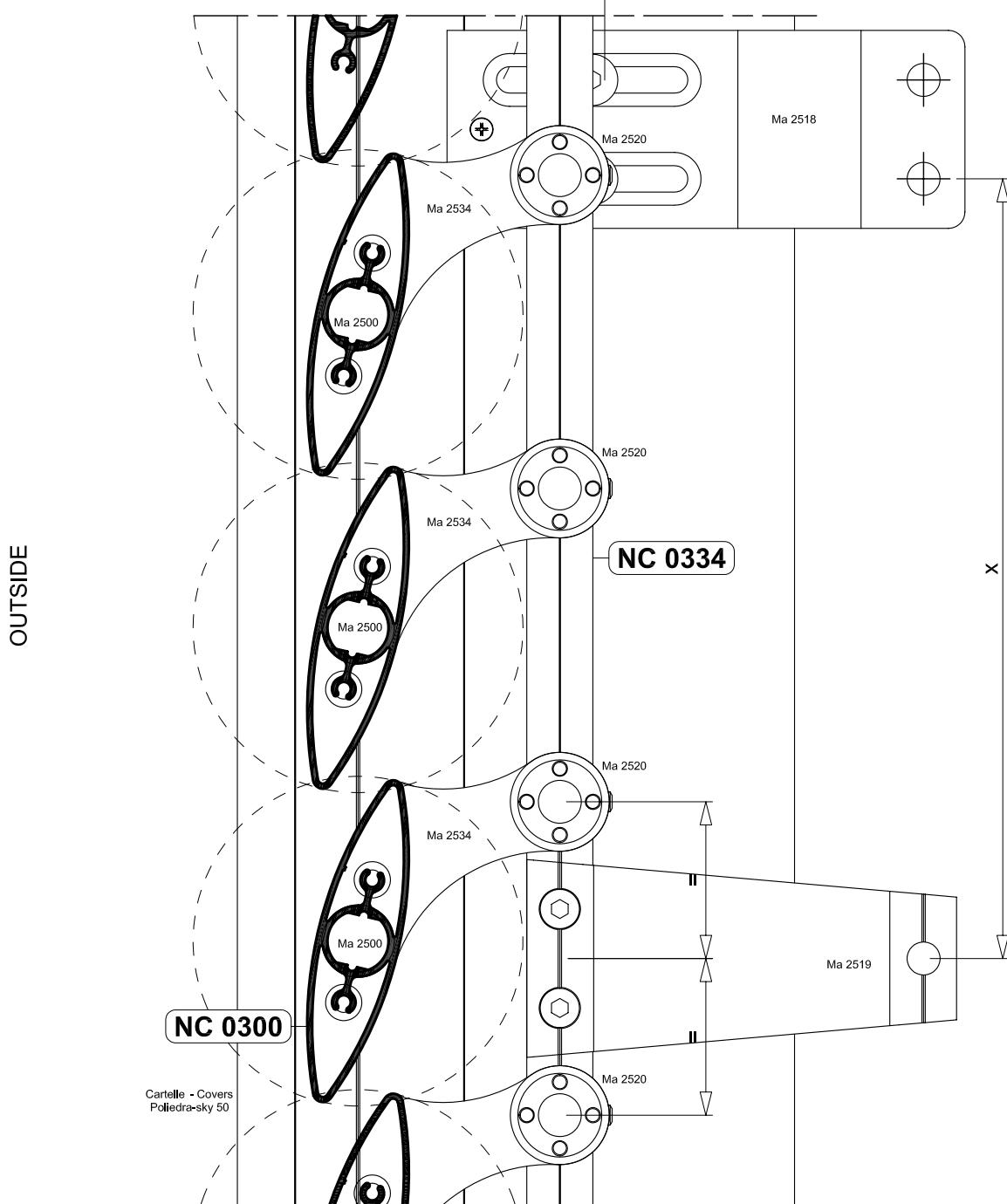


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGolo Variabile a Comando SINGLE MULLION - CONTROLLED VARIABLE ANGLE	NC 0320	NC 0300
	70 mm	100 mm

MONTANTE MULLION	LAMELLA BLADE
NC 0320	NC 0300
70 mm	100 mm

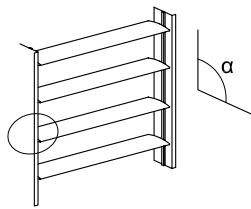
UNI 5933 M8x25
con Inserto filettato
(non dl formatura Metra)
UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)

ESTERNO
OUTSIDE

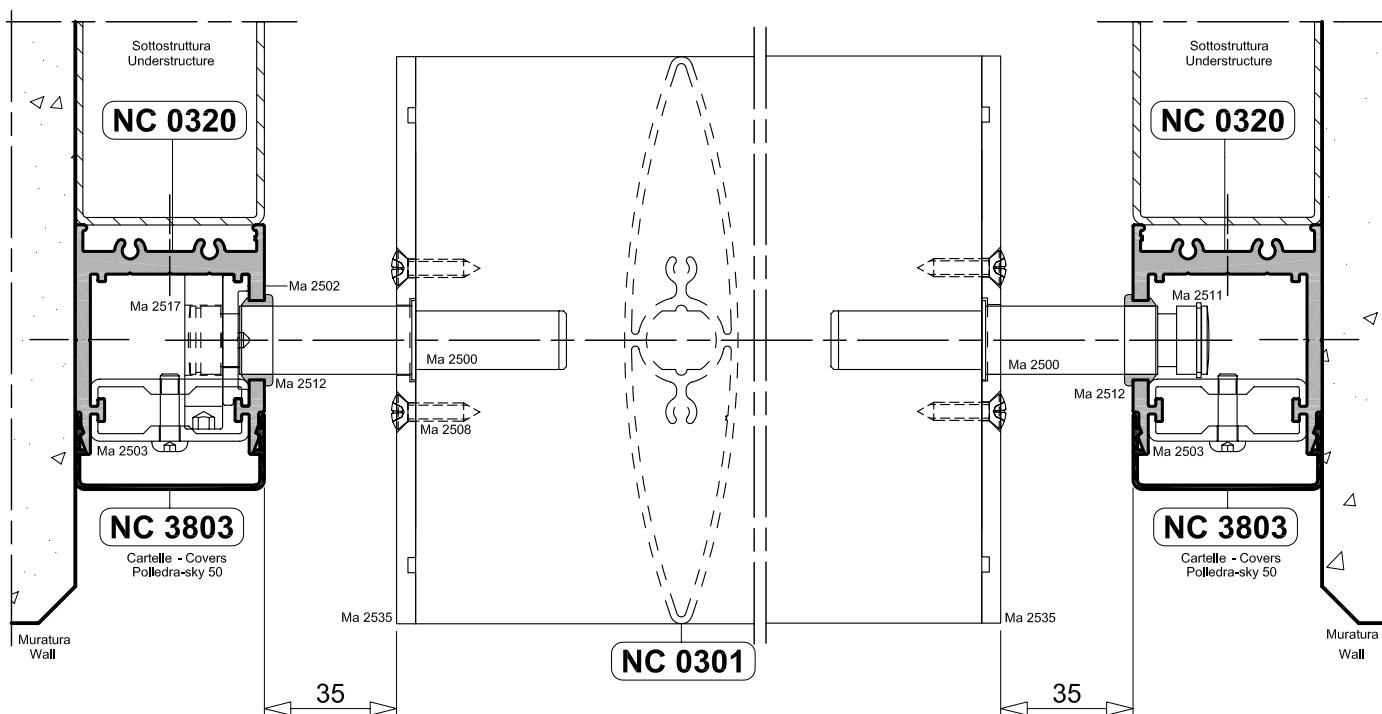


x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

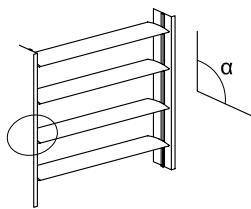
SCALA
SCALE 1:2



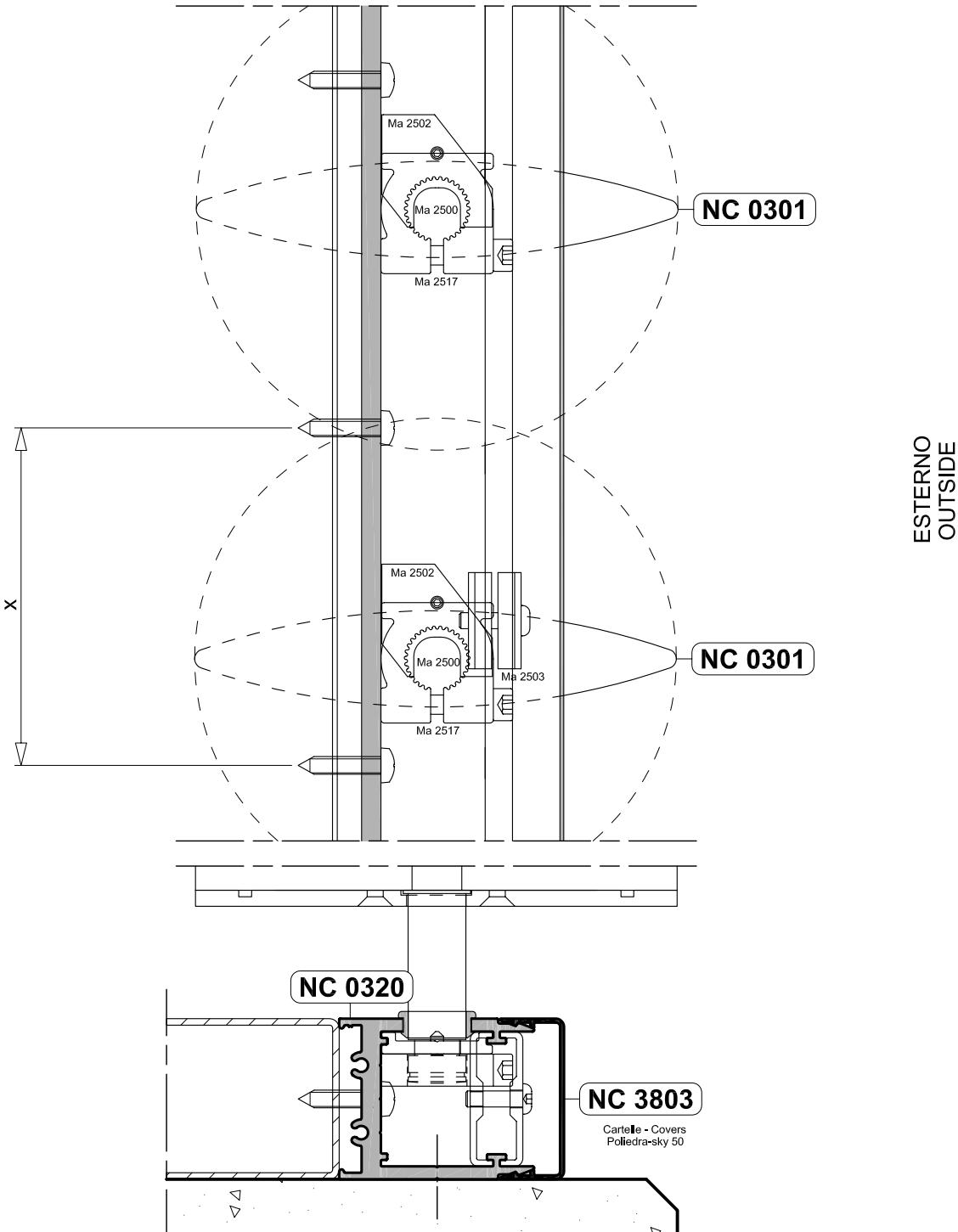
SOLUZIONI PER SOTTOSTRUCTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLI PRESTABILITI SINGLE MULLION - PRE-SET ANGLES	NC 0320	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	70 mm	150 mm

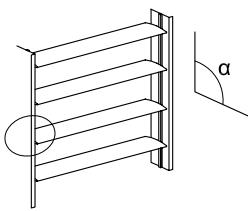

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OUTSIDE

 SCALA 1:2
SCALE 1:2

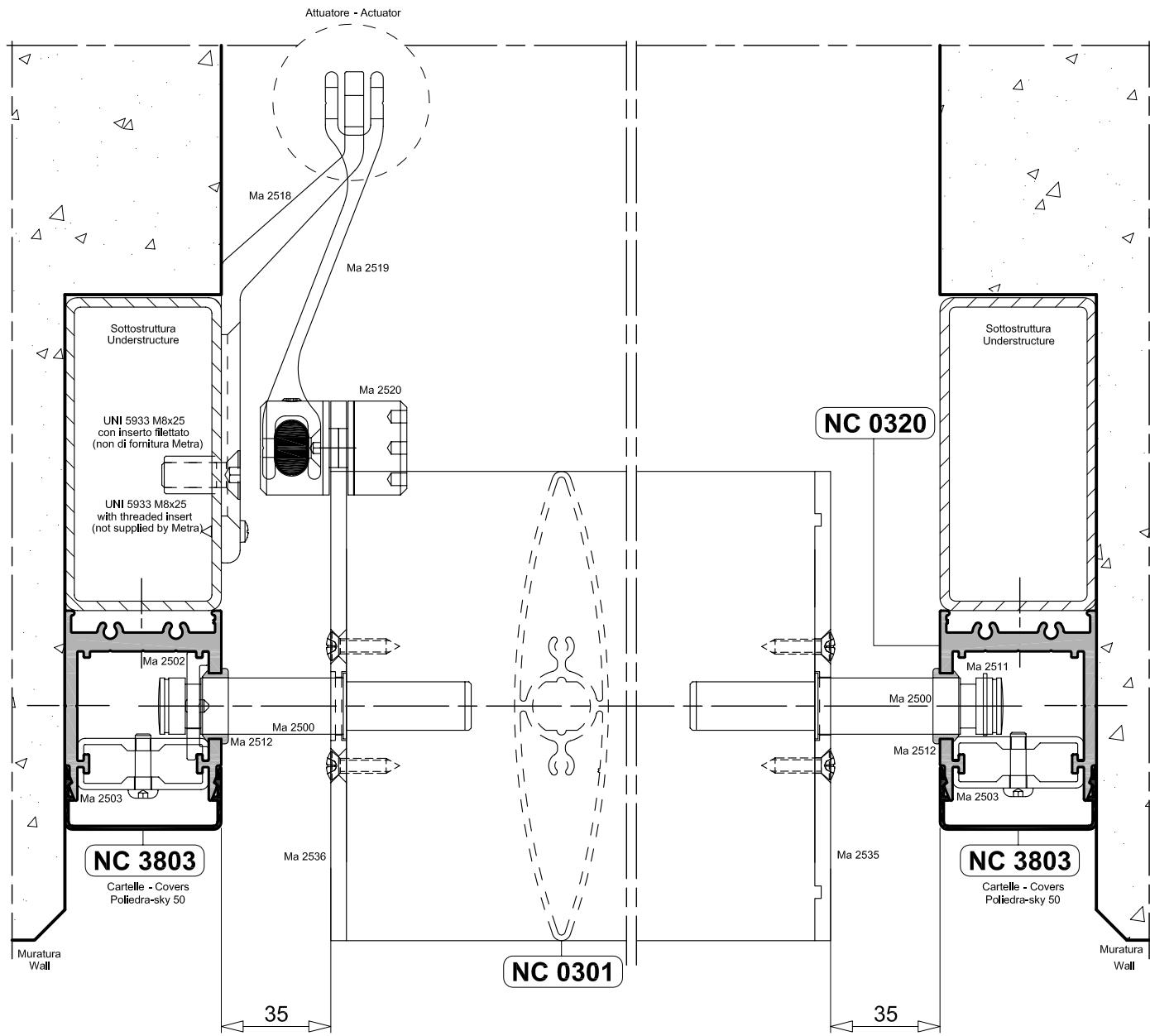


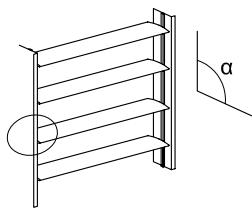
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLI PRESTABILITI SINGLE MULLION - PRE-SET ANGLES	NC 0320	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	70 mm	100 mm


 SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION NC 0320	LAMELLA BLADE NC 0301
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO SINGLE MULLION - CONTROLLED VARIABLE ANGLE	70 mm	150 mm

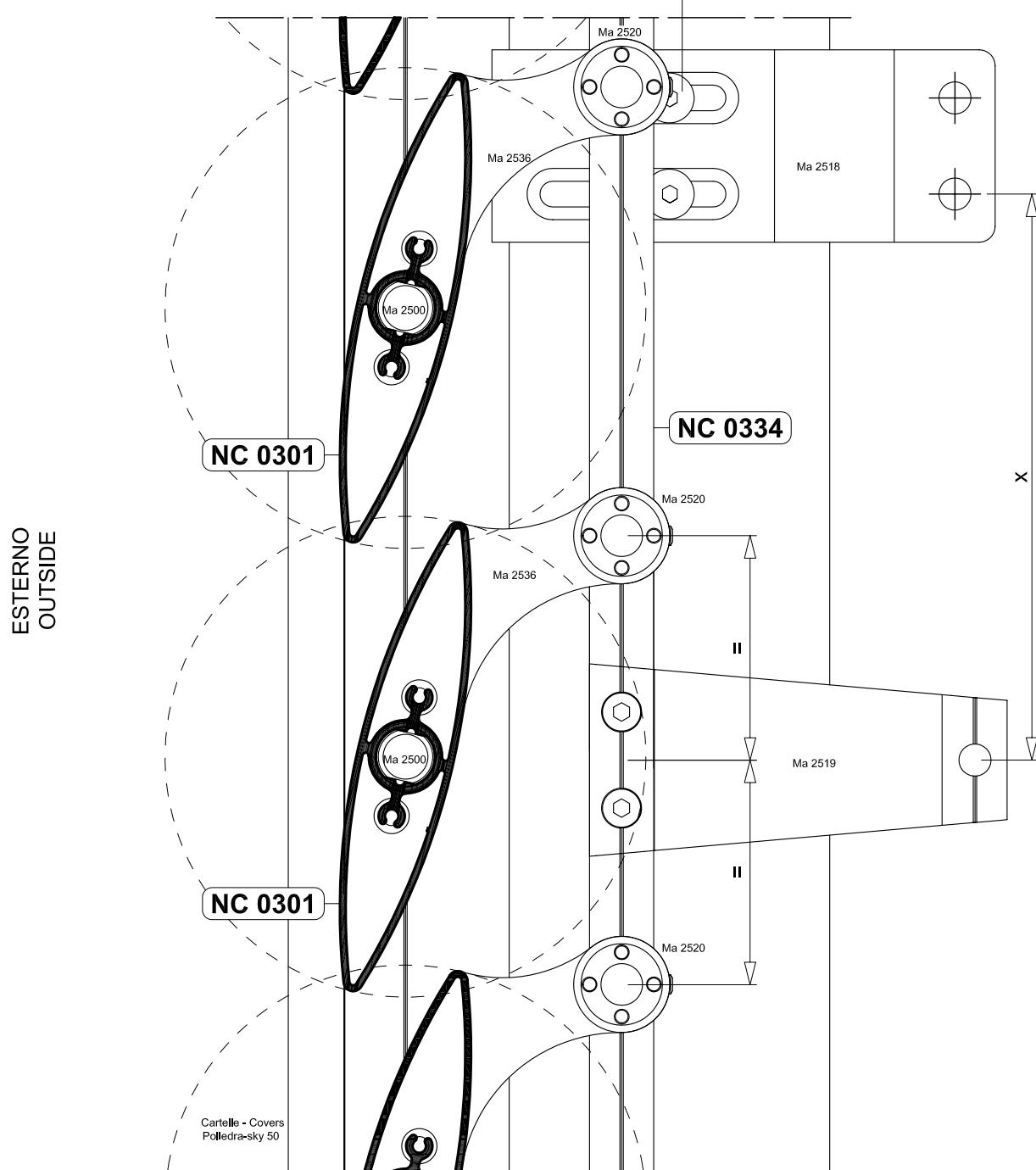

 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO SINGLE MULLION - CONTROLLED VARIABLE ANGLE		NC 0320	NC 0301
		70 mm	150 mm

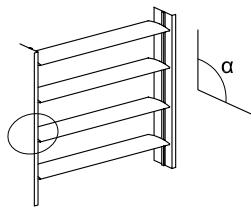
UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)

UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

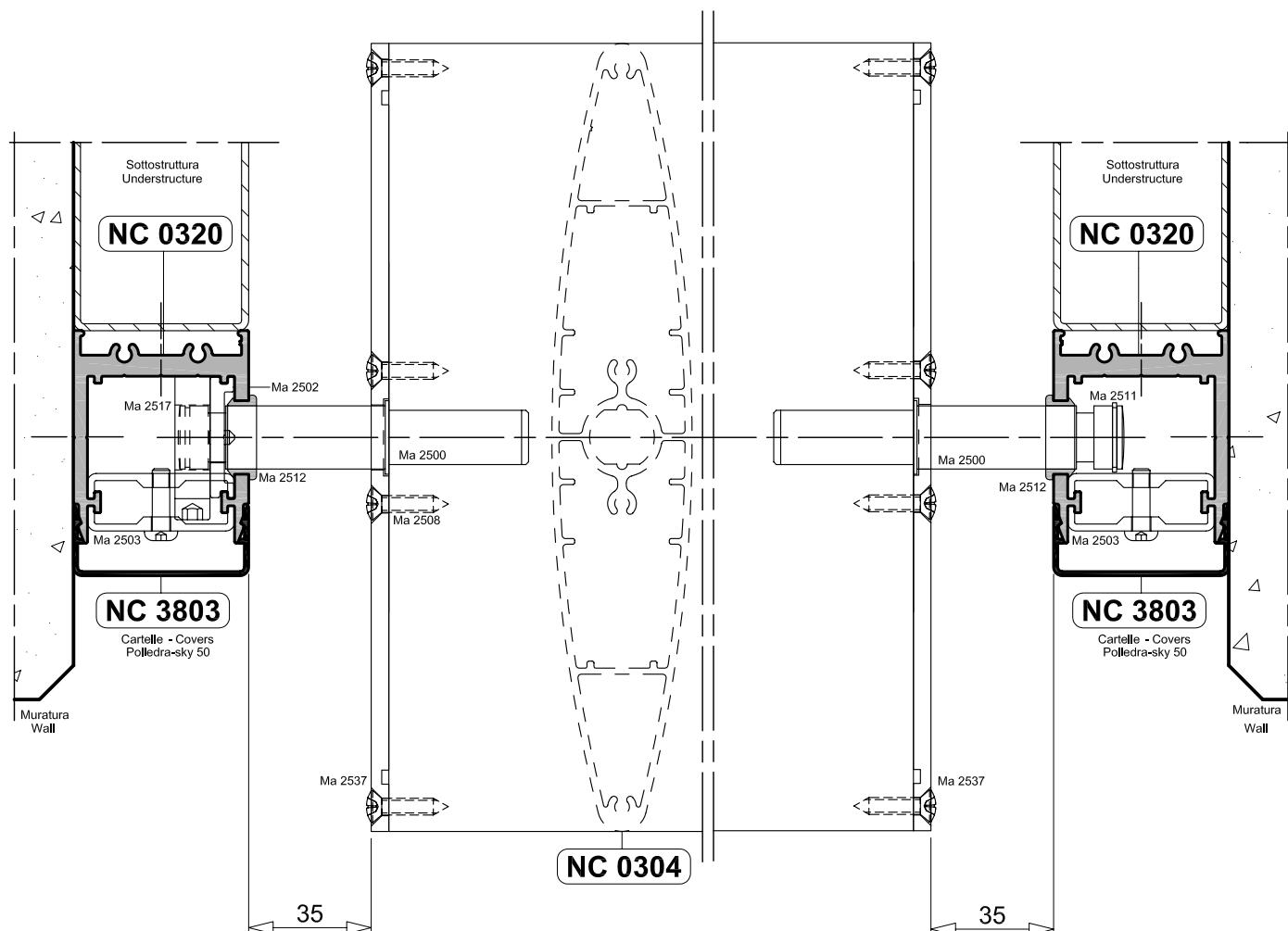


x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

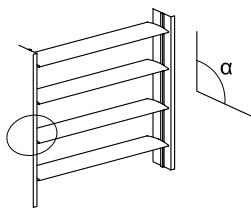
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUCTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLI PRESTABILITI SINGLE MULLION - PRE-SET ANGLES	NC 0320	NC 0304
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	70 mm	225 mm

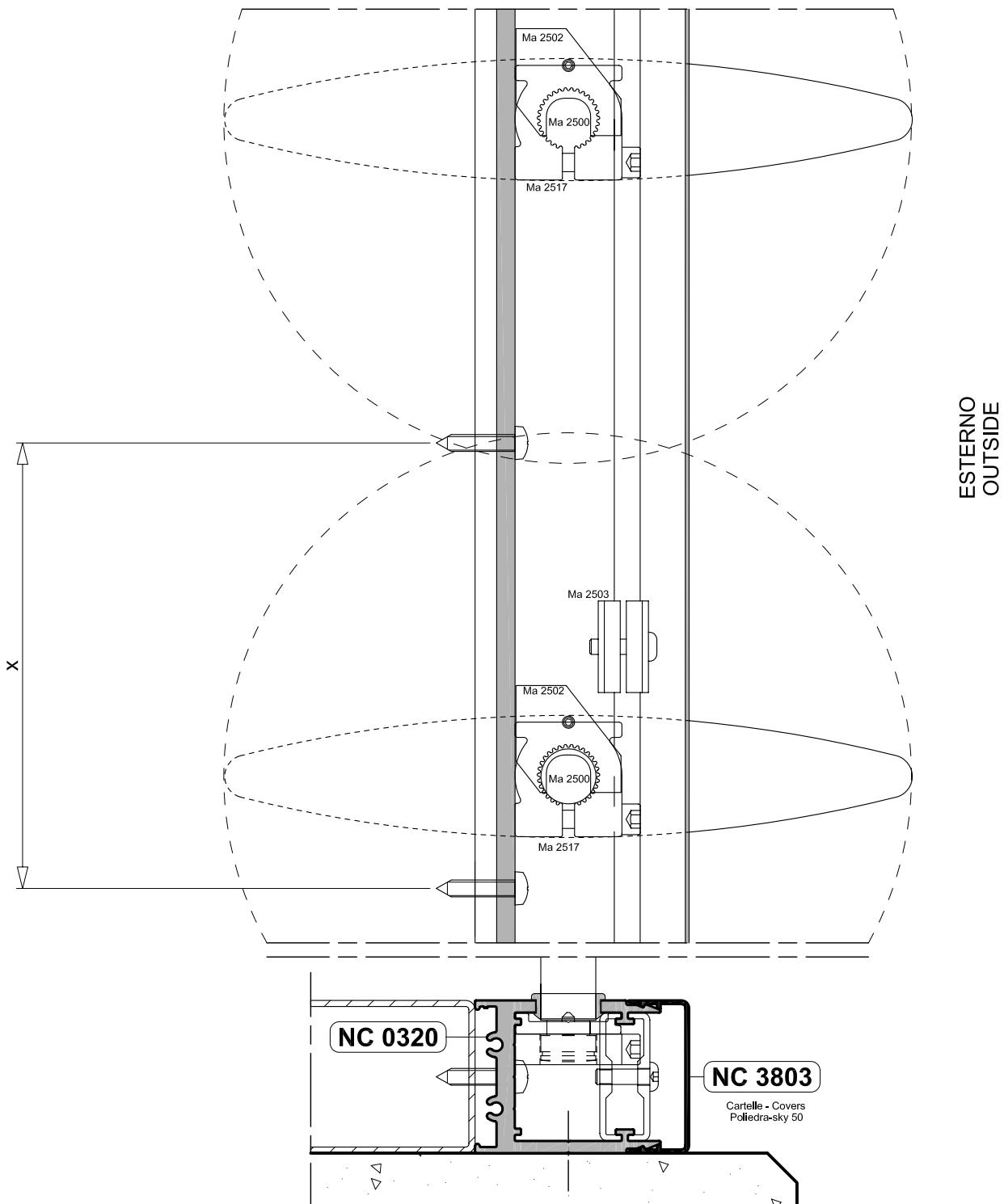

 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2



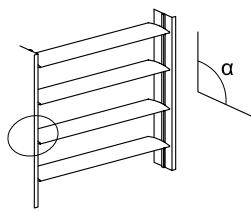
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
MONTANTE MULLION	LAMELLA BLADE
NC 0320	NC 0304
70 mm	225 mm

$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$



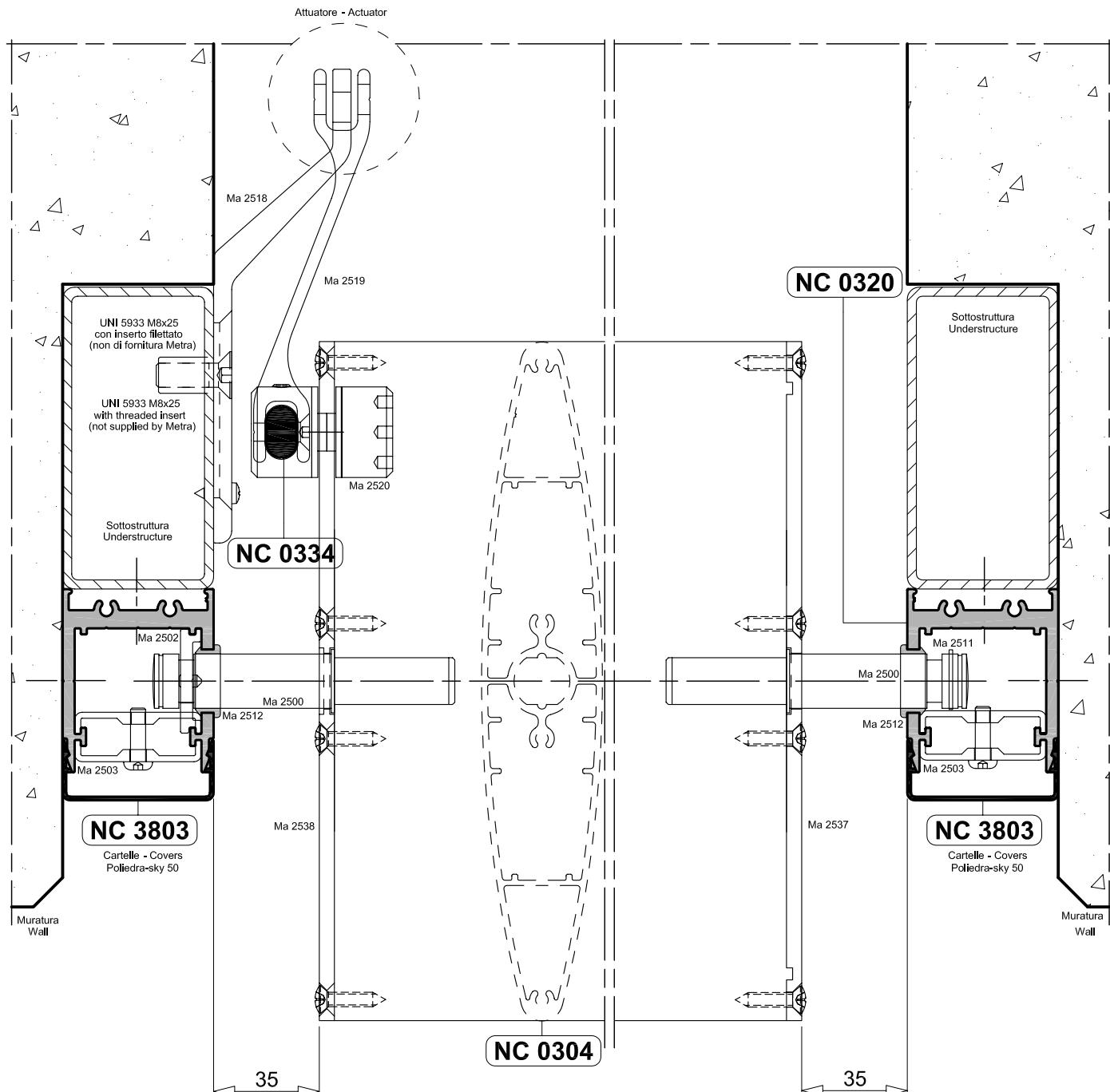
x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

SCALA
SCALE 1:2

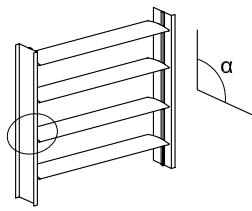


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO SINGLE MULLION - CONTROLLED VARIABLE ANGLE	NC 0320	NC 0304

70 mm 225 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

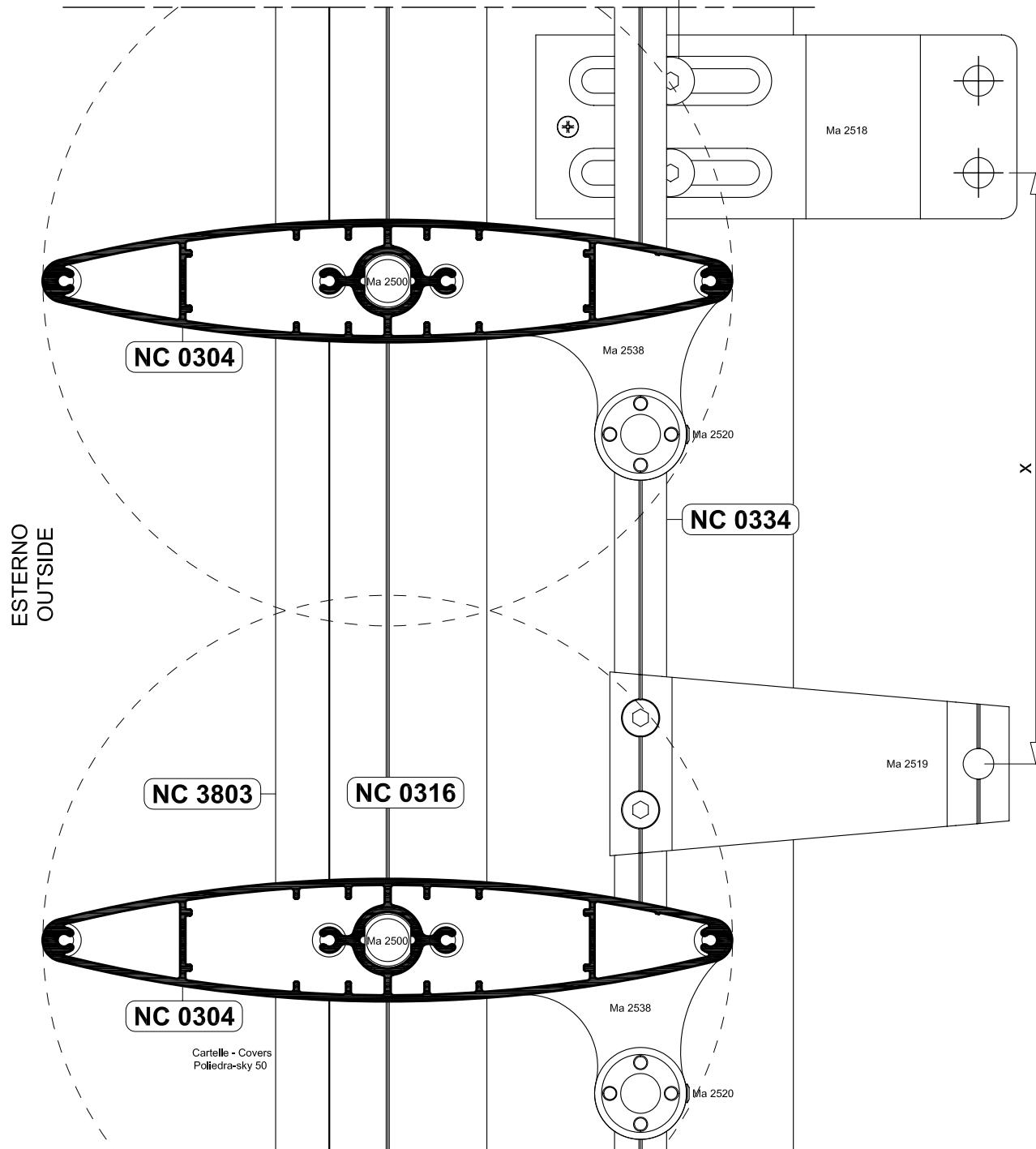


SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE
MULLION
NC 0320
70 mm

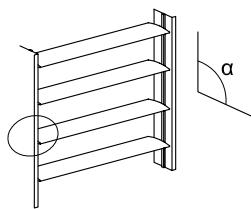
LAMELLA
BLADE
NC 0304
225 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)
UNI 5933 M8x25
with threaded insert
(not supplied by Metra)



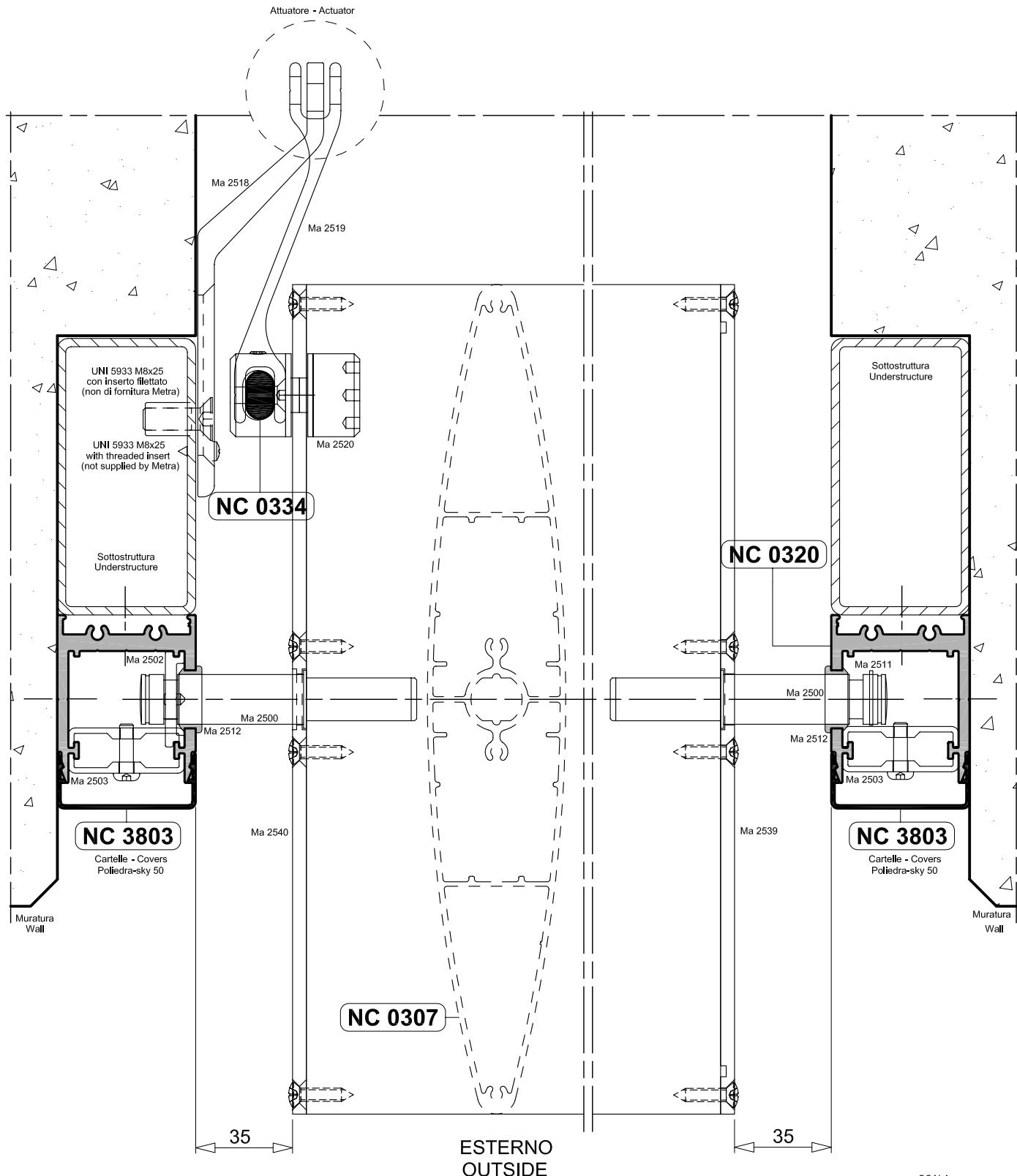
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

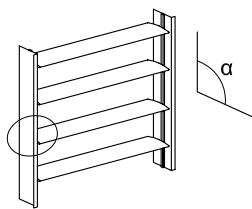
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0320	NC 0307
70 mm	300 mm





SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE

MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE
MULLION

NC 0320

70 mm

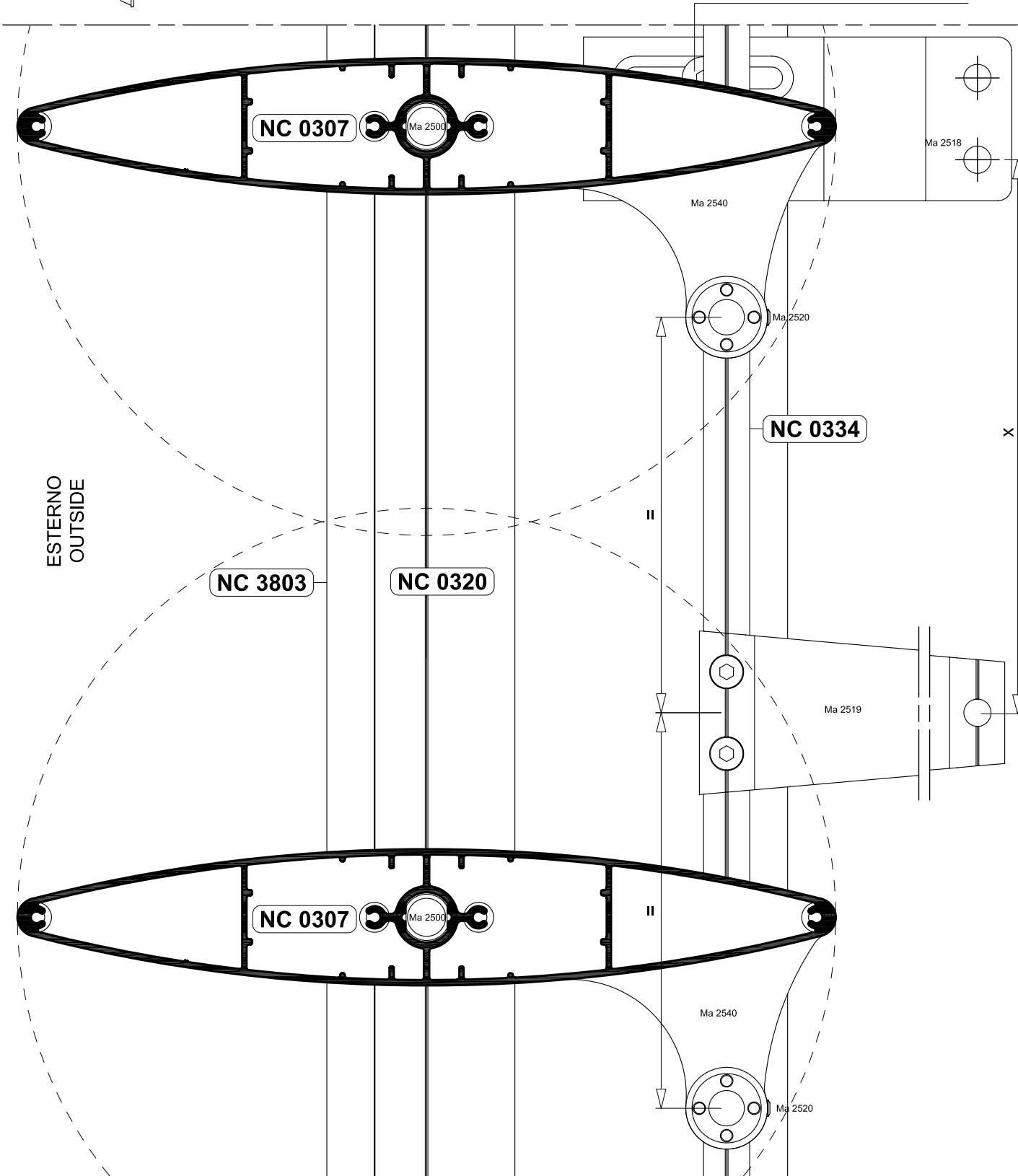
LAMELLA
BLADE

NC 0307

300 mm

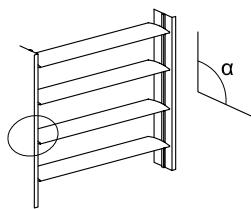
UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)

UNI 5933 M8x25
with threaded insert
(not supplied by Metra)



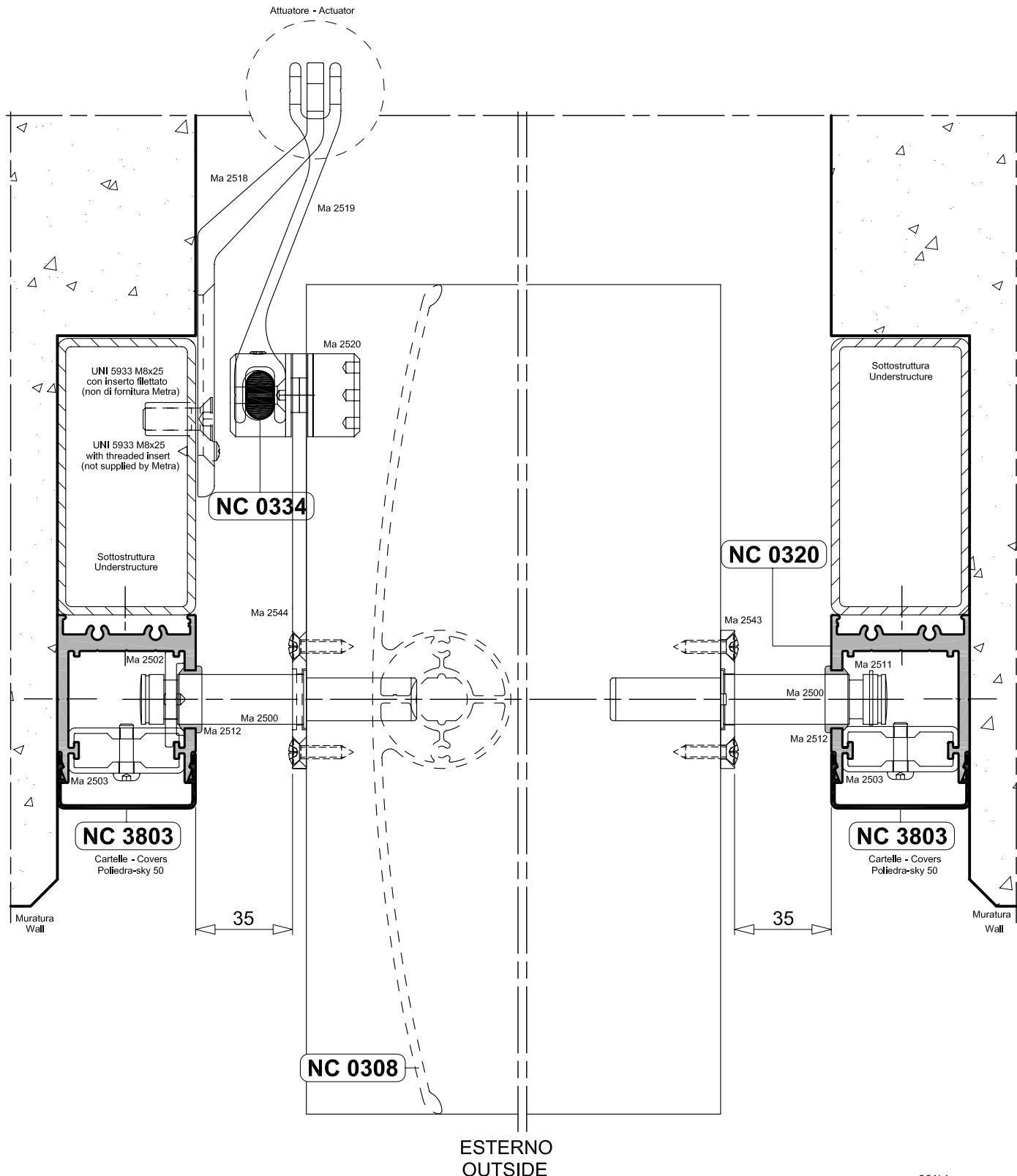
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

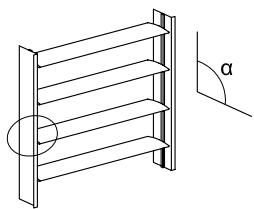
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0320	NC 0308
70 mm	300 mm

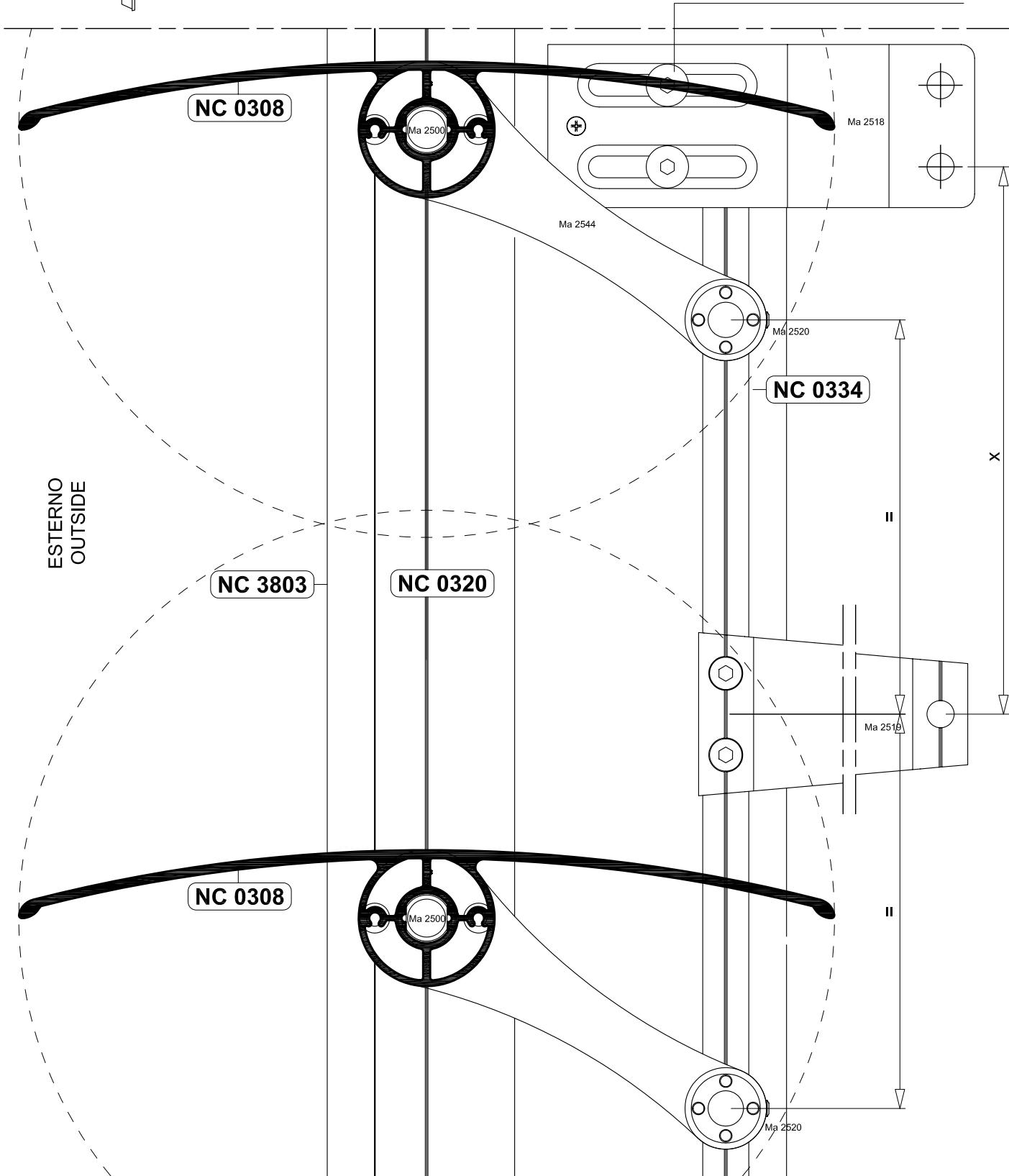

 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

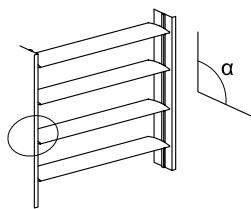
MONTANTE MULLION	LAMELLA BLADE
NC 0320	NC 0308
70 mm	300 mm

UNI 5933 M8x25
con Inserto flettito
(non di fornitura Metra)
with threaded Insert
(not supplied by Metra)



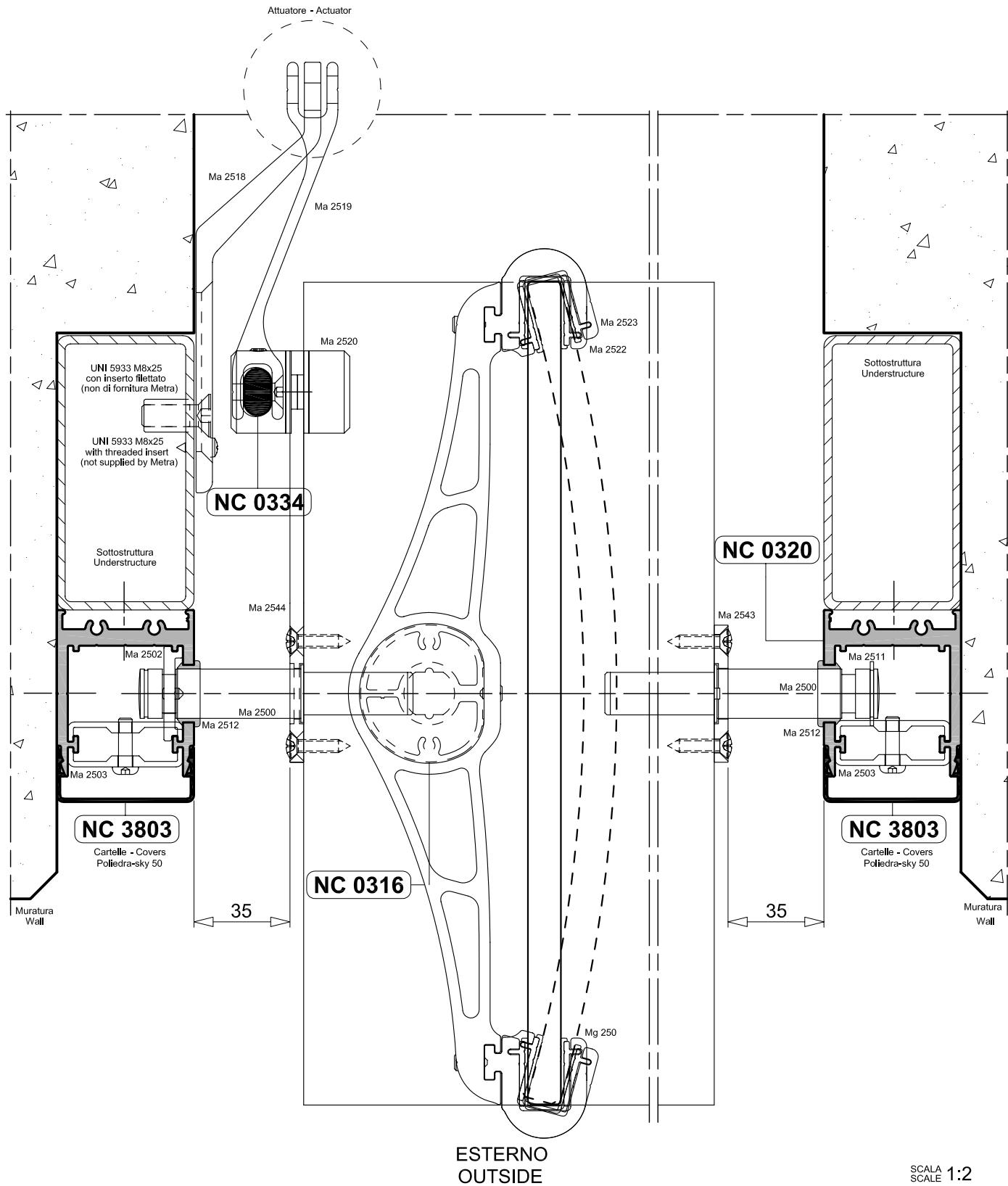
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

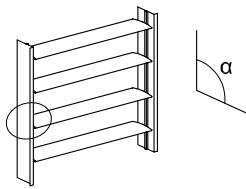
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0320	VETRO GLASS
70 mm	300 mm


 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE

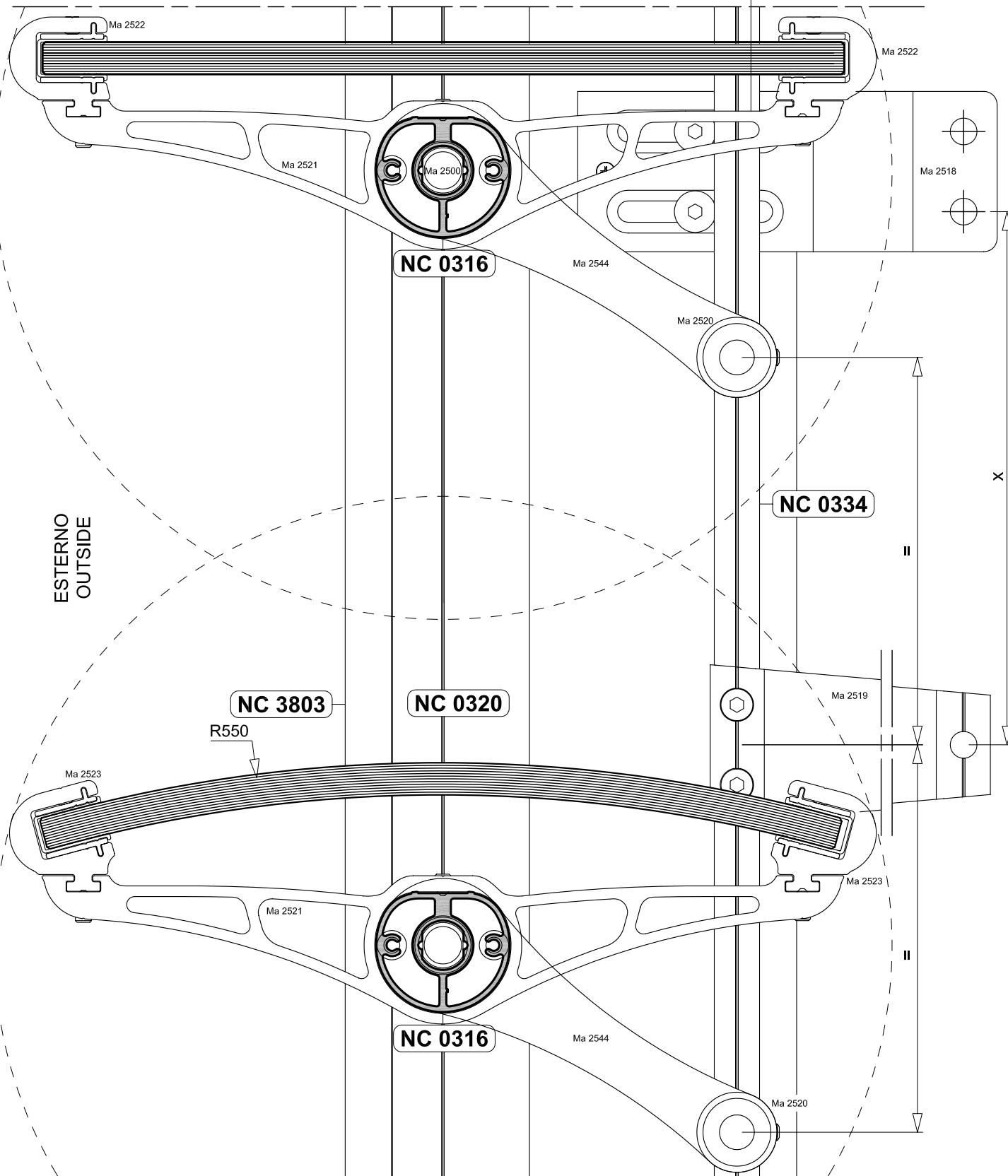
MONTANTE SINGOLO - ANGolo VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE
MULLION
NC 0320
70 mm

LAMELLA
BLADE
VETRO
GLASS
300 mm

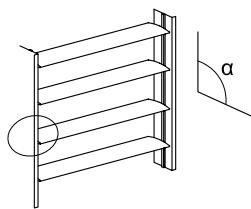
UNI 5933 M8x25
con inserto flettito
(non di fornitura Metra)

UNI 5933 M8x25
with threaded insert
(not supplied by Metra)



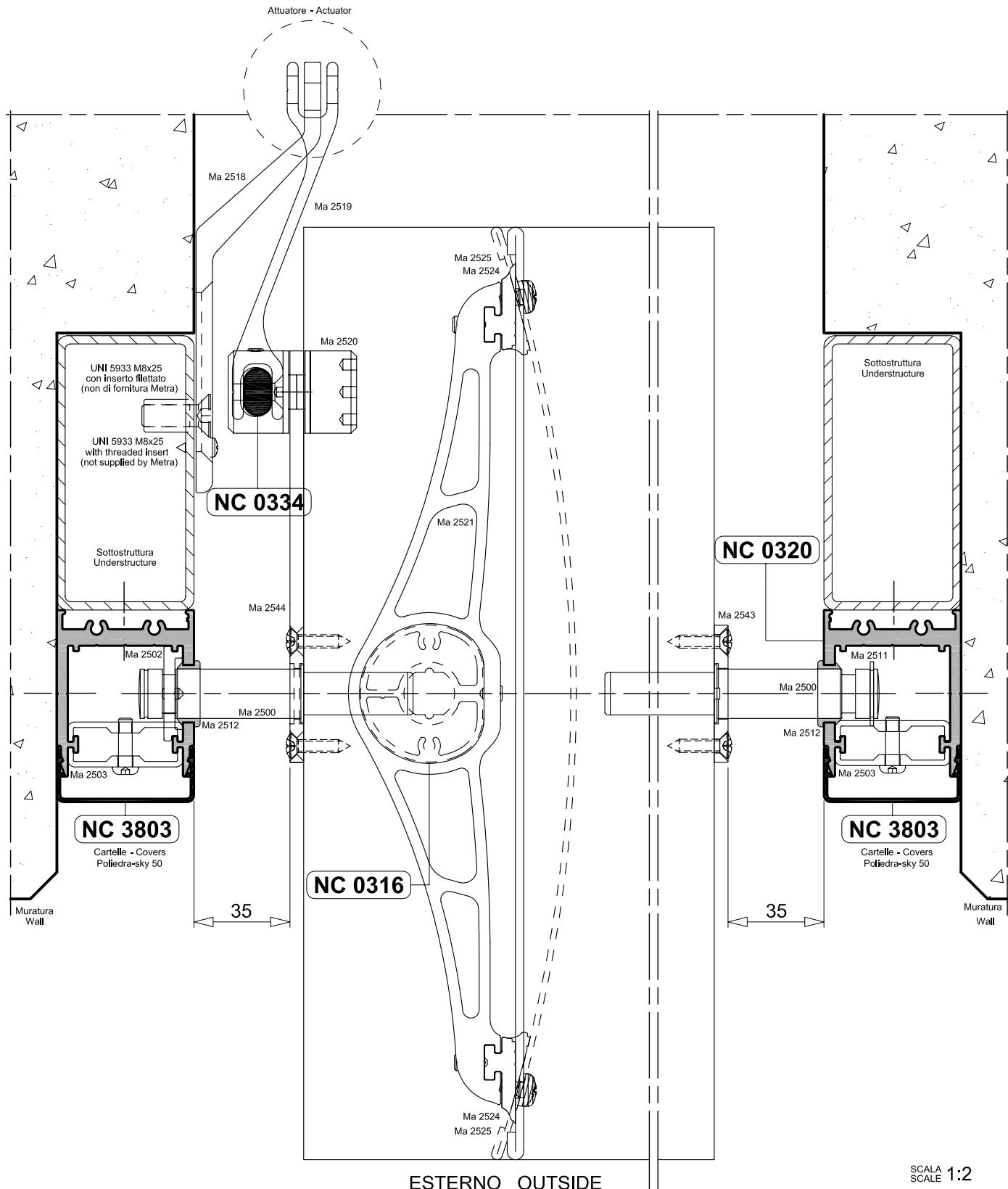
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

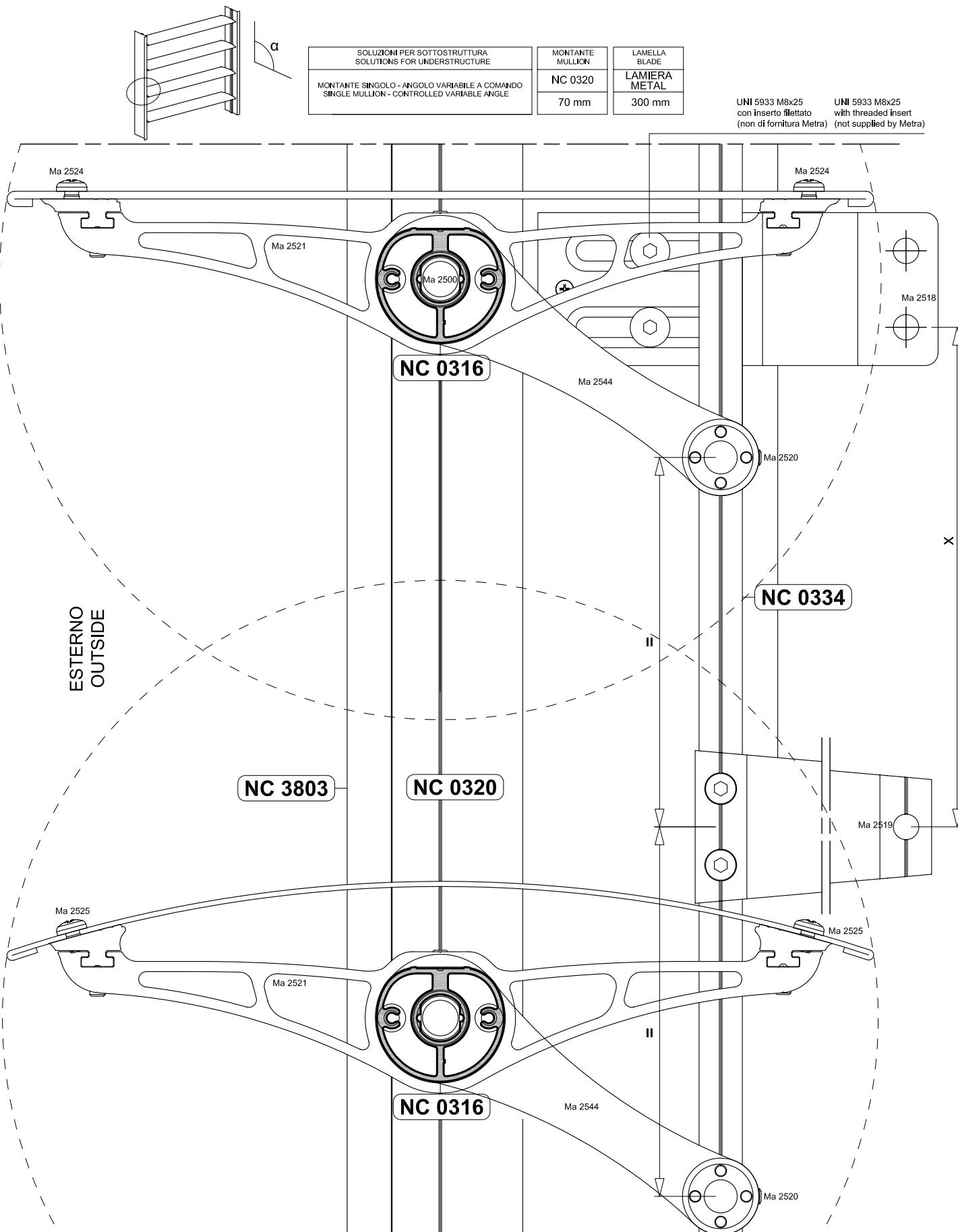


SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0320	LAMIERA METAL
70 mm	300 mm

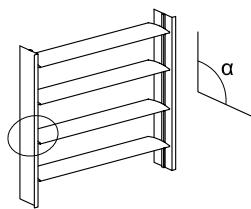


SCALA 1:2



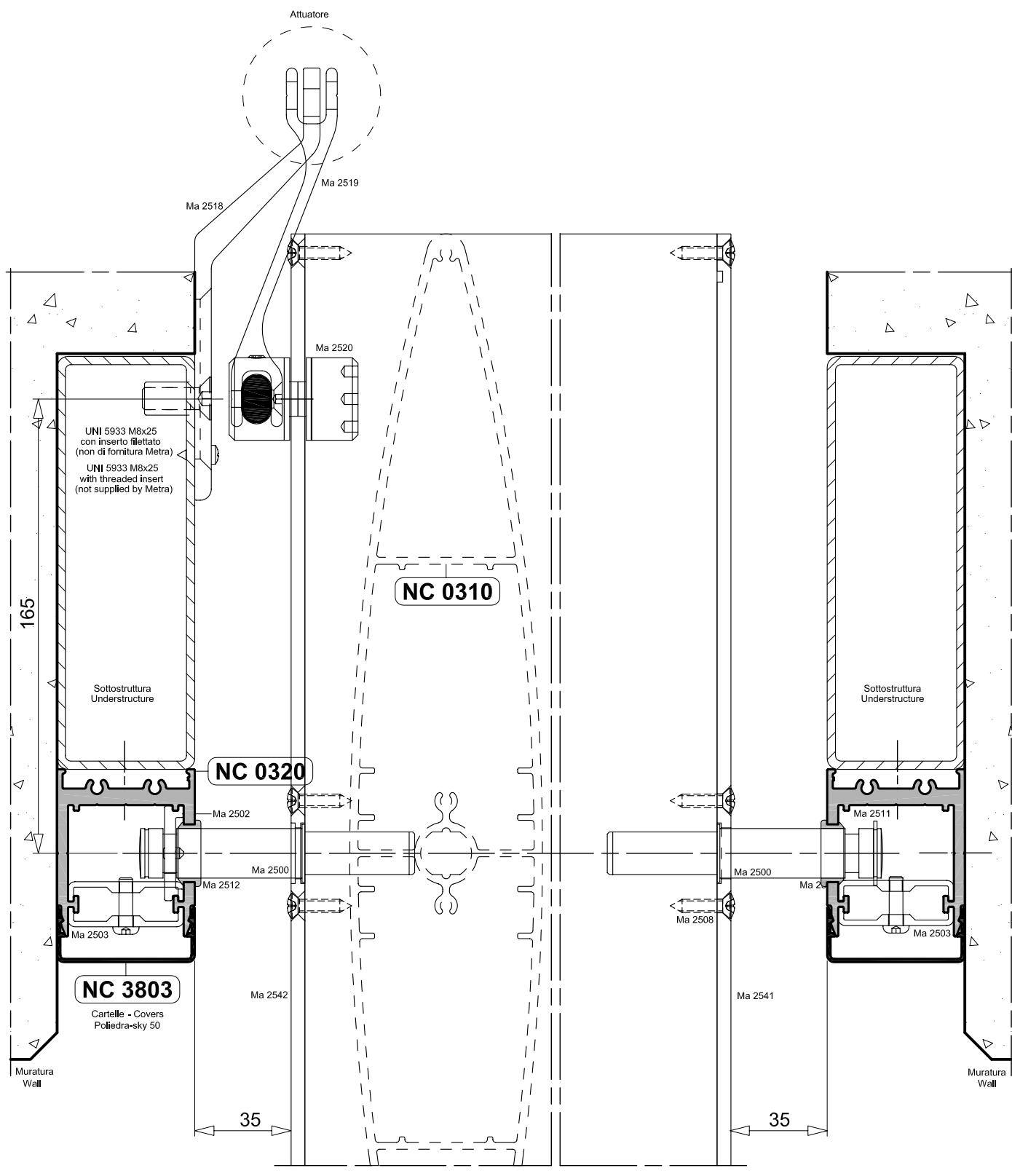
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

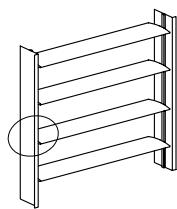
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGolo Variabile a COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0320	NC 0310
70 mm	450 mm


 SCALA 1:2
SCALE 1:2

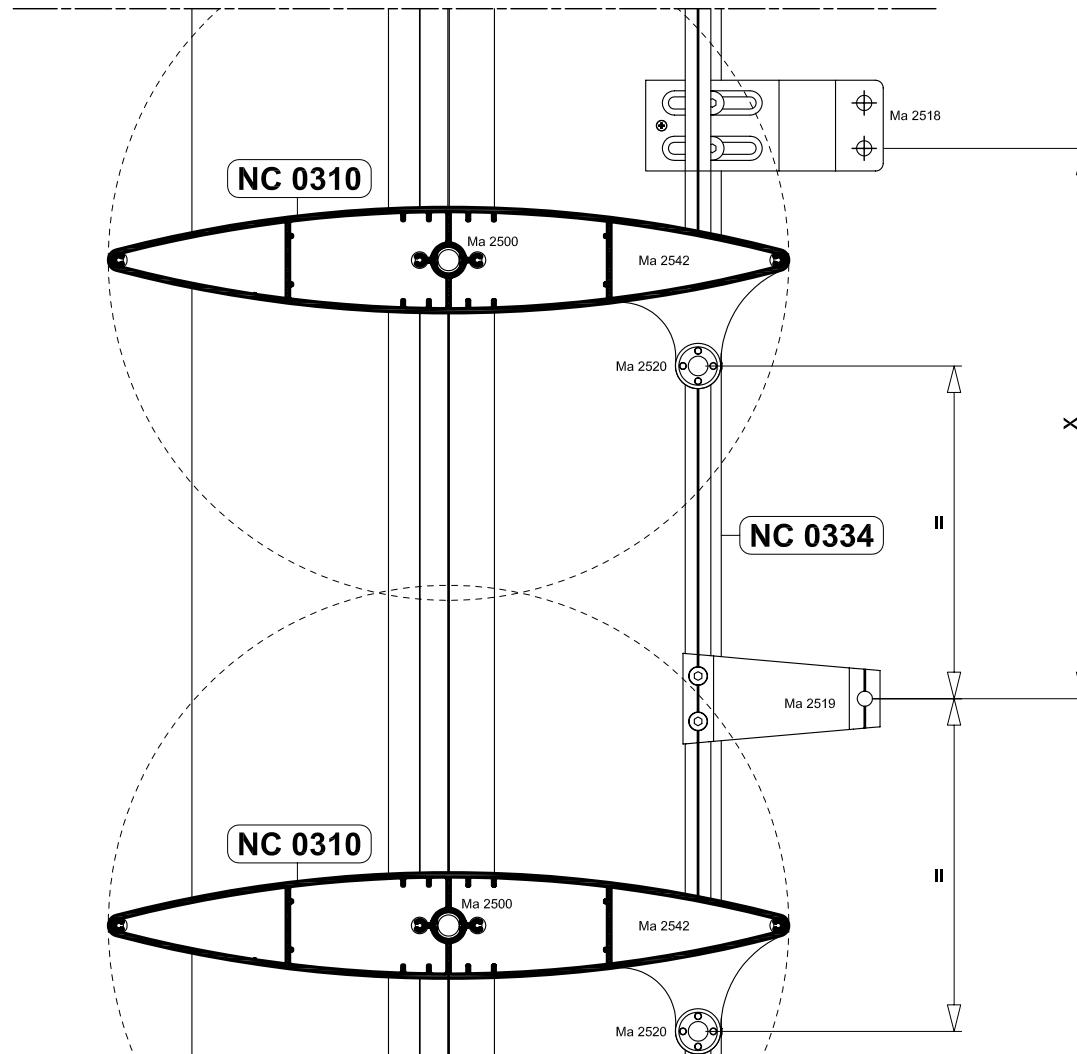


SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE

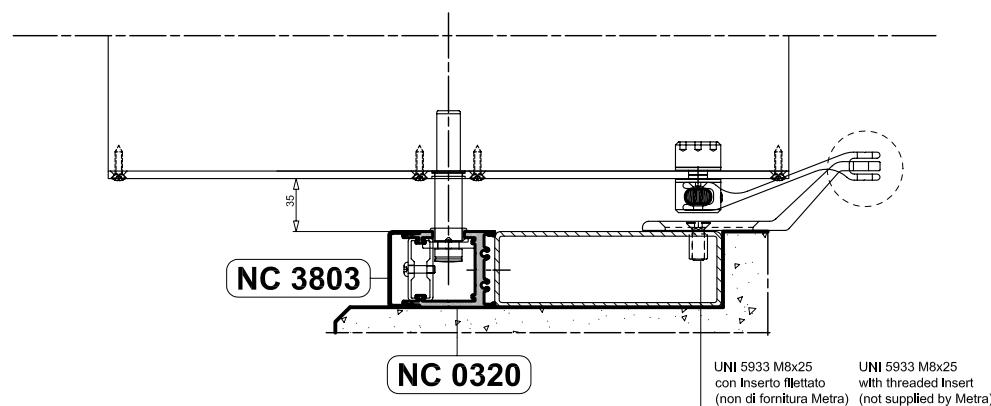
MONTANTE
MULLION
NC 0320
70 mm

LAMELLA
BLADE
NC 0310
450 mm

ESTERNO
OUTSIDE

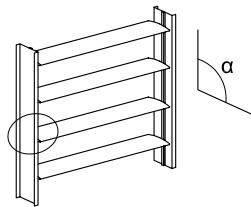


SCALE
SCALA 1:5

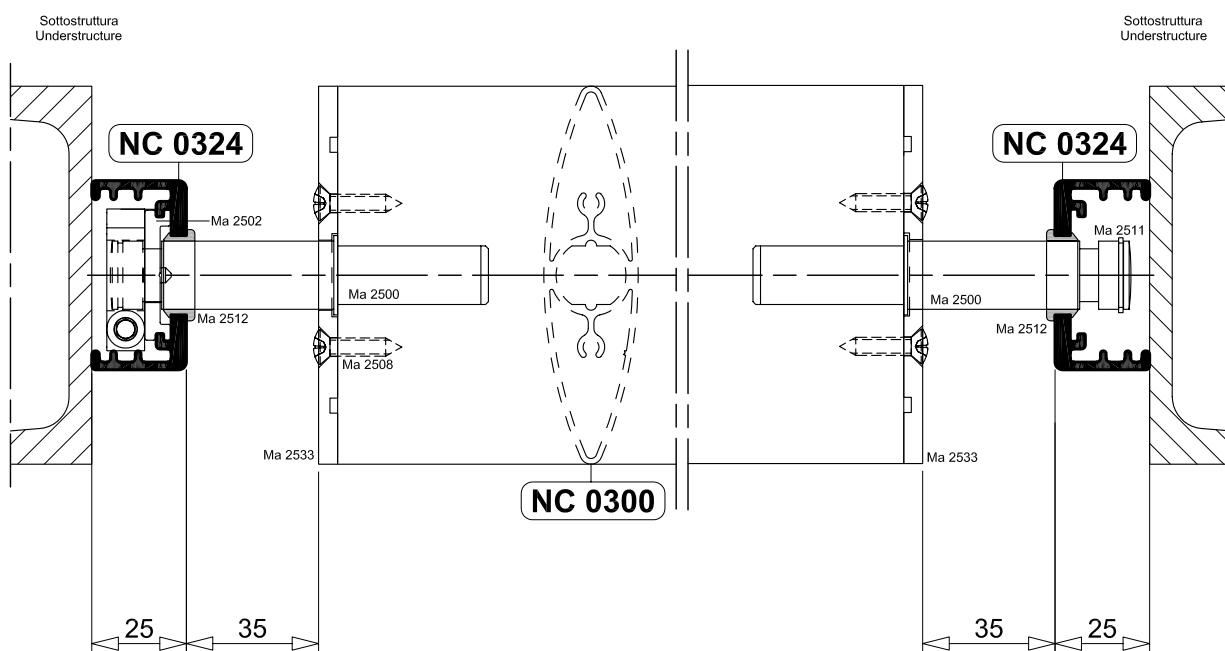


UNI 5933 M8x25
con Inserto filottato
(non di fornitura Metra)
UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)

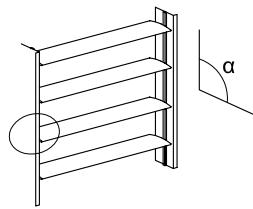
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required



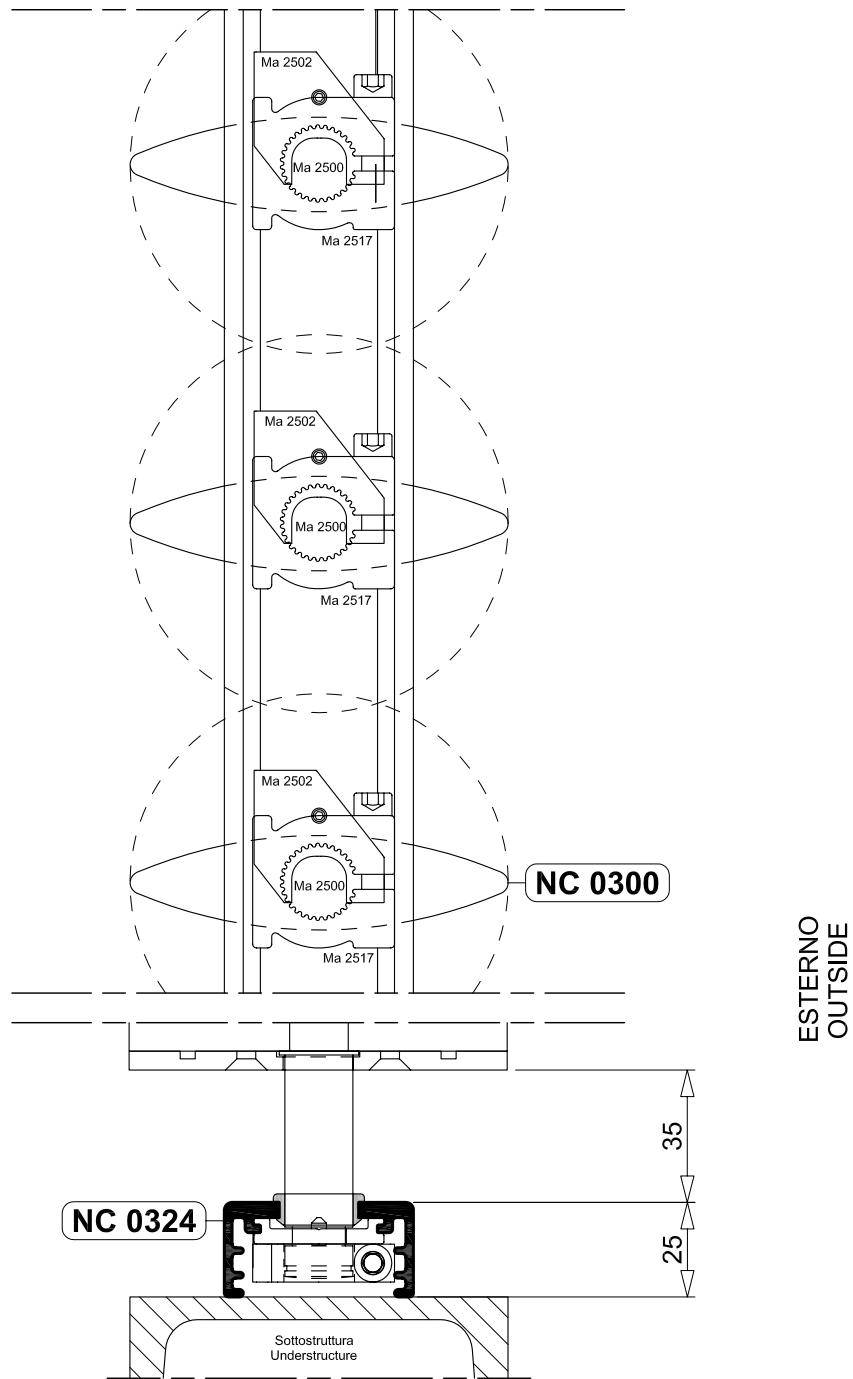
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	100 mm

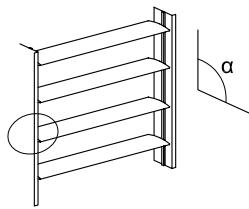

 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2



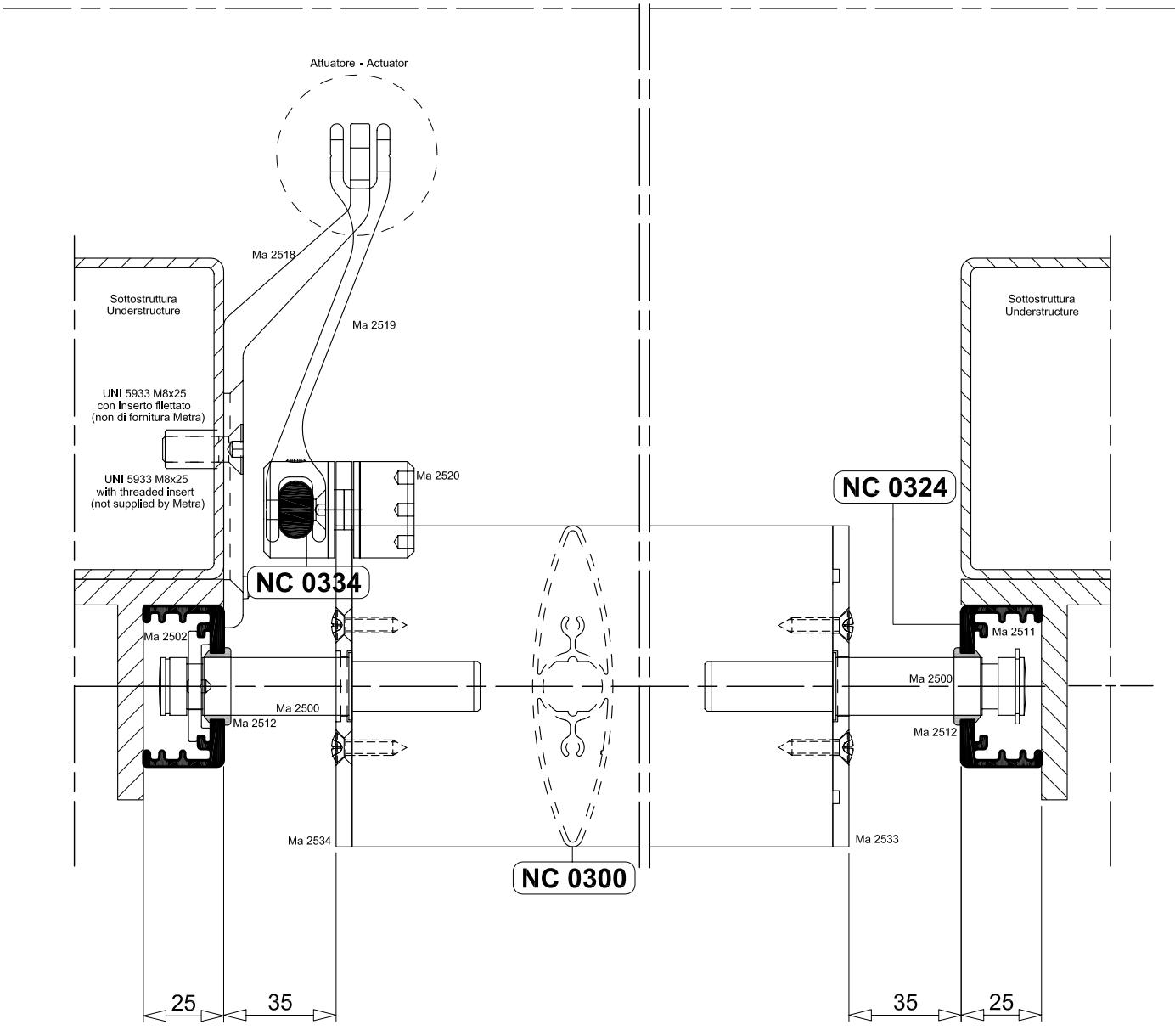
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	100 mm


 SCALA
SCALE 1:2

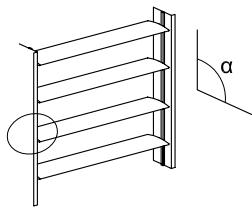


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	NC 0324	NC 0300

25 mm 100 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2



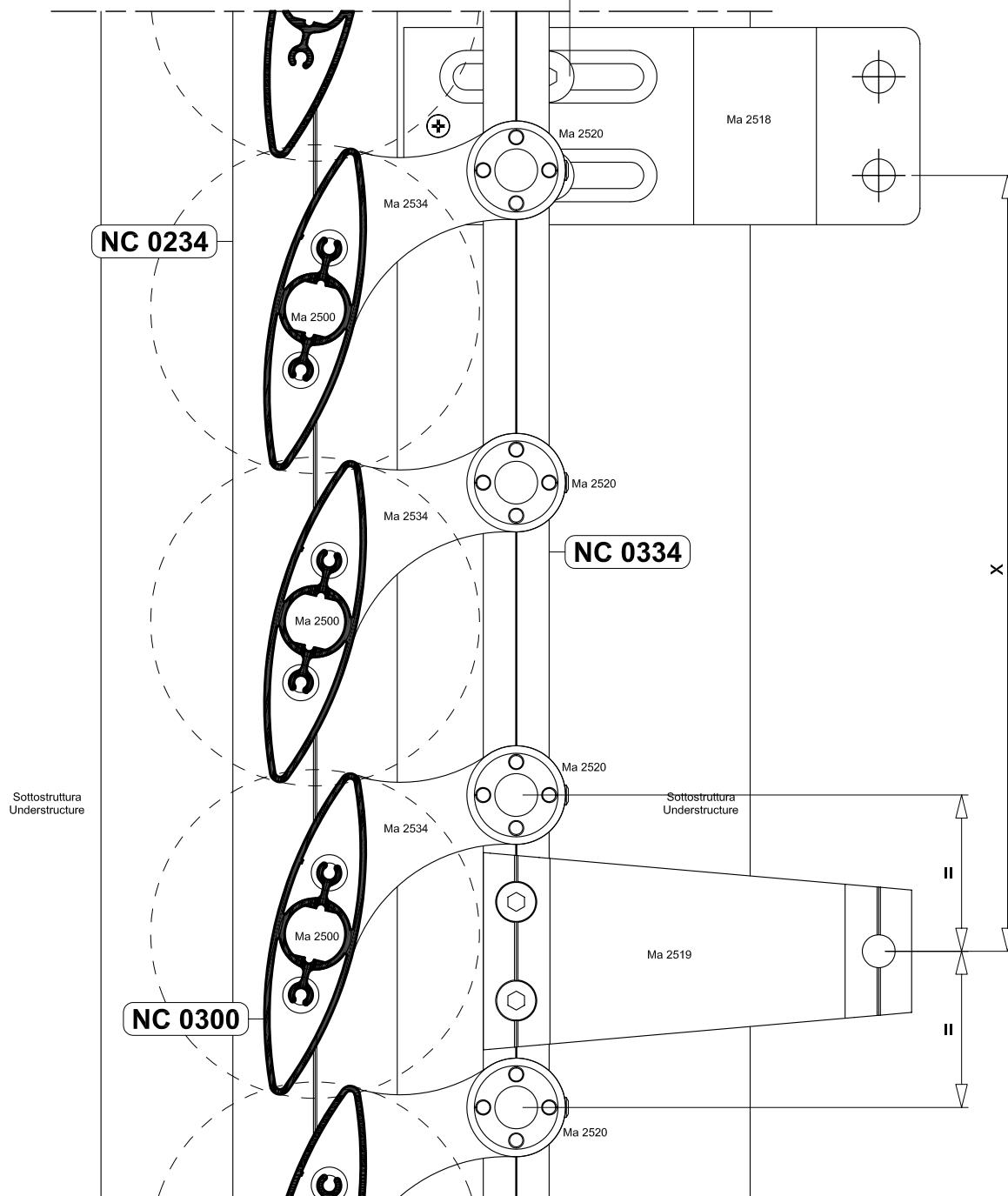
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
MONTANTE RIDOTTO - ANGOLI VARIABILI A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	
NC 0324	NC 0300

MONTANTE MULLION	LAMELLA BLADE
25 mm	100 mm

UNI 5933 M8x25
con Inserto flettato
(non dl fornitura Metra)
with threaded Insert
(not supplied by Metra)

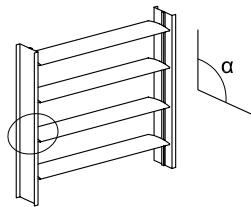
UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)

ESTERNO
OUTSIDE

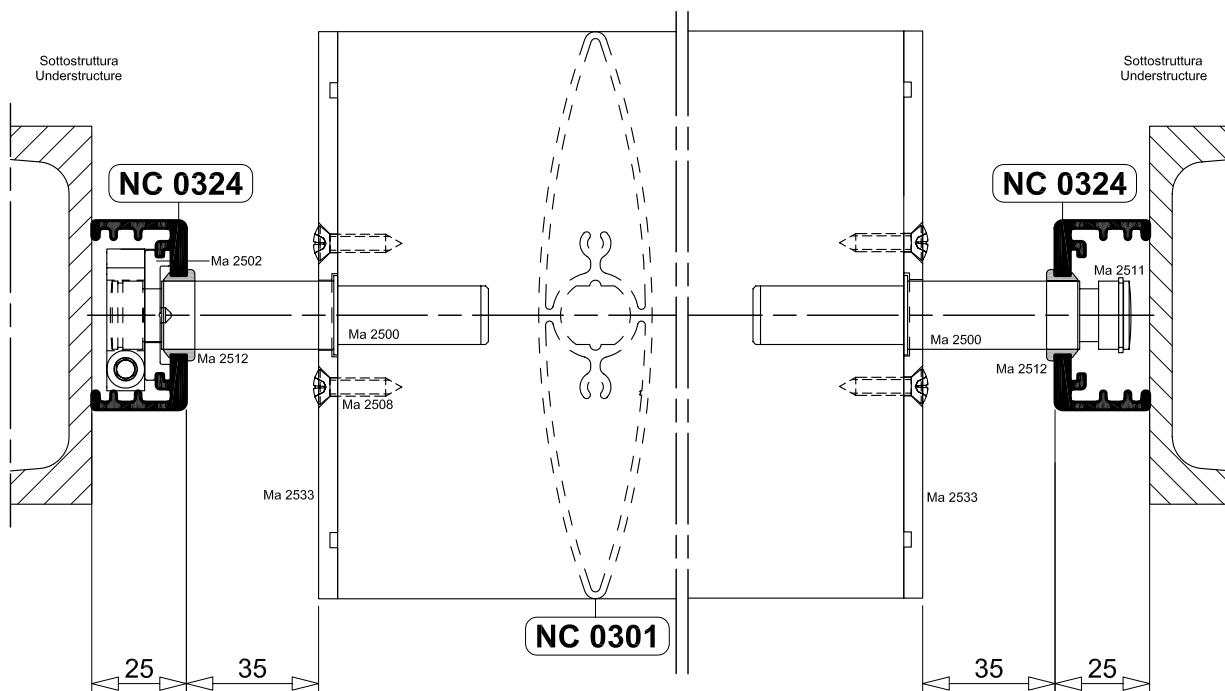


x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

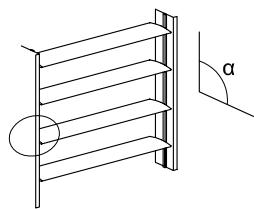
SCALA
SCALE 1:2



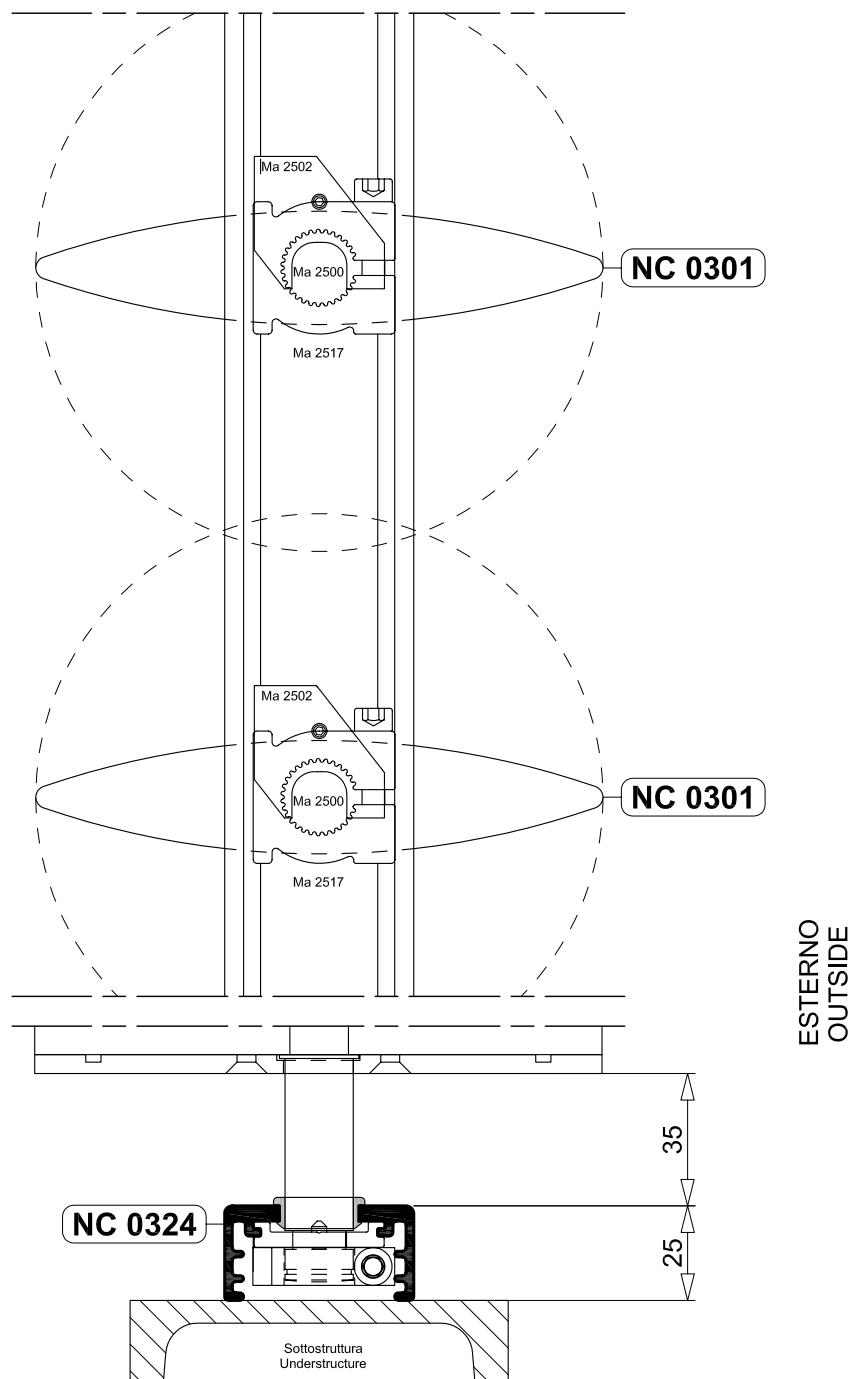
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	150 mm

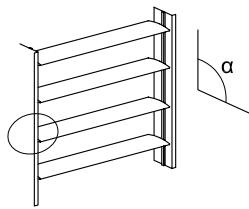

 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

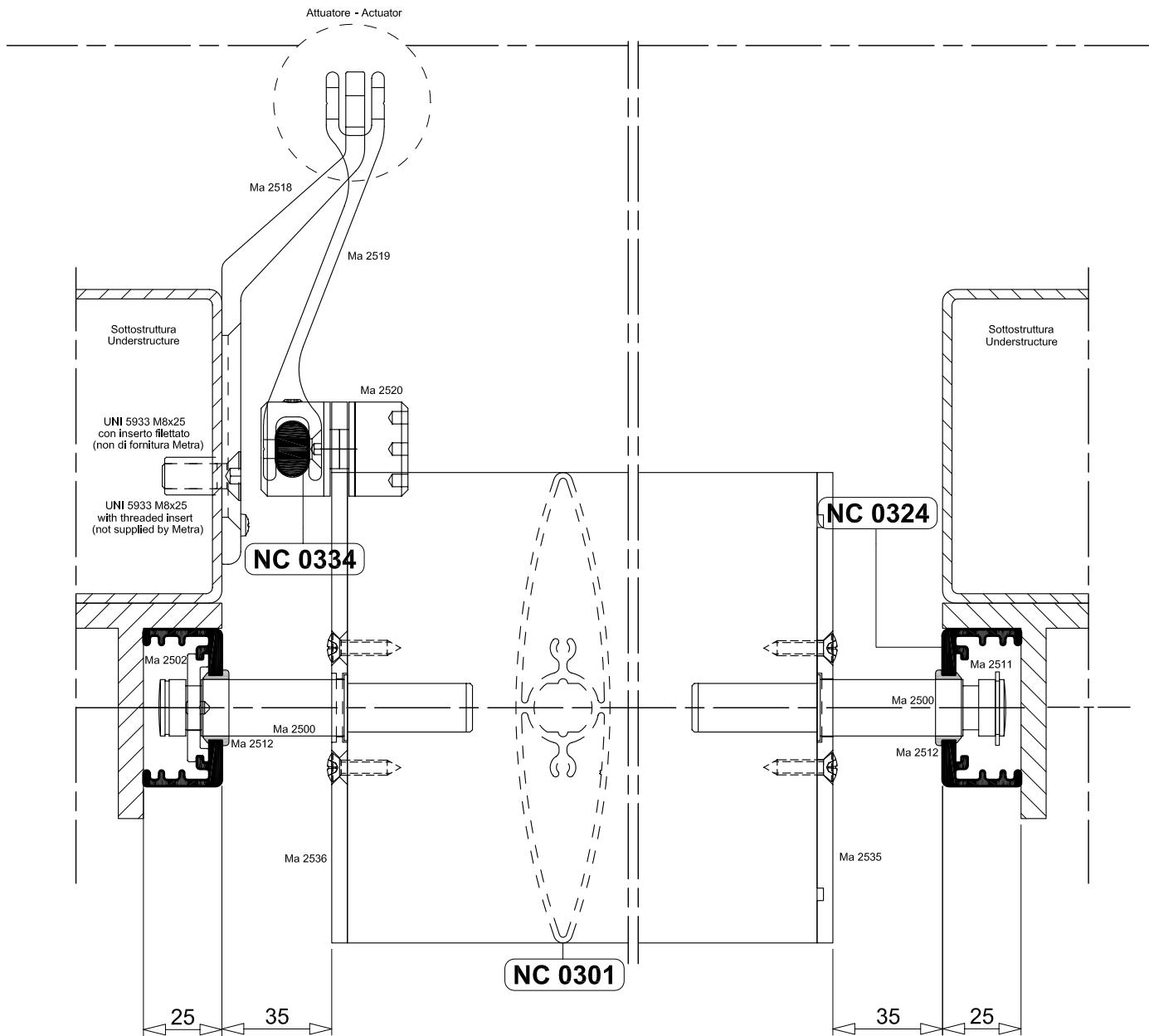


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	150 mm

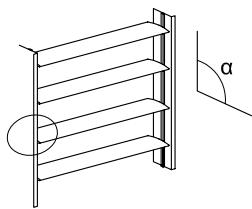

 SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION NC 0324	LAMELLA BLADE NC 0300
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	25 mm	100 mm

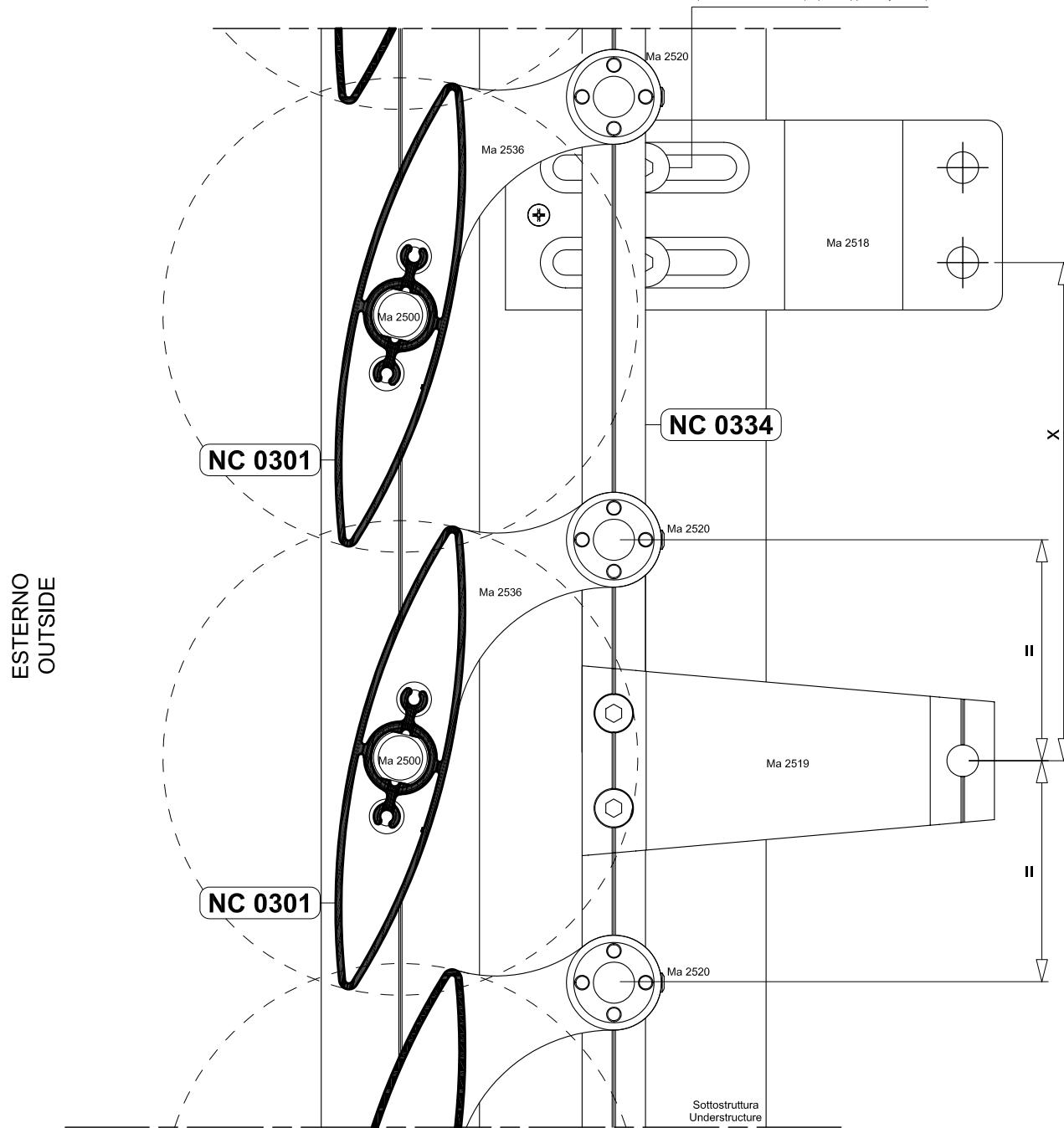

 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2



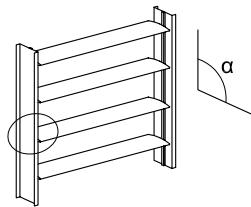
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION NC 0324 25 mm	LAMELLA BLADE NC 0301 150 mm
MONTANTE RIDOTTO - ANGolo VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE		

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)
with threaded insert
(not supplied by Metra)

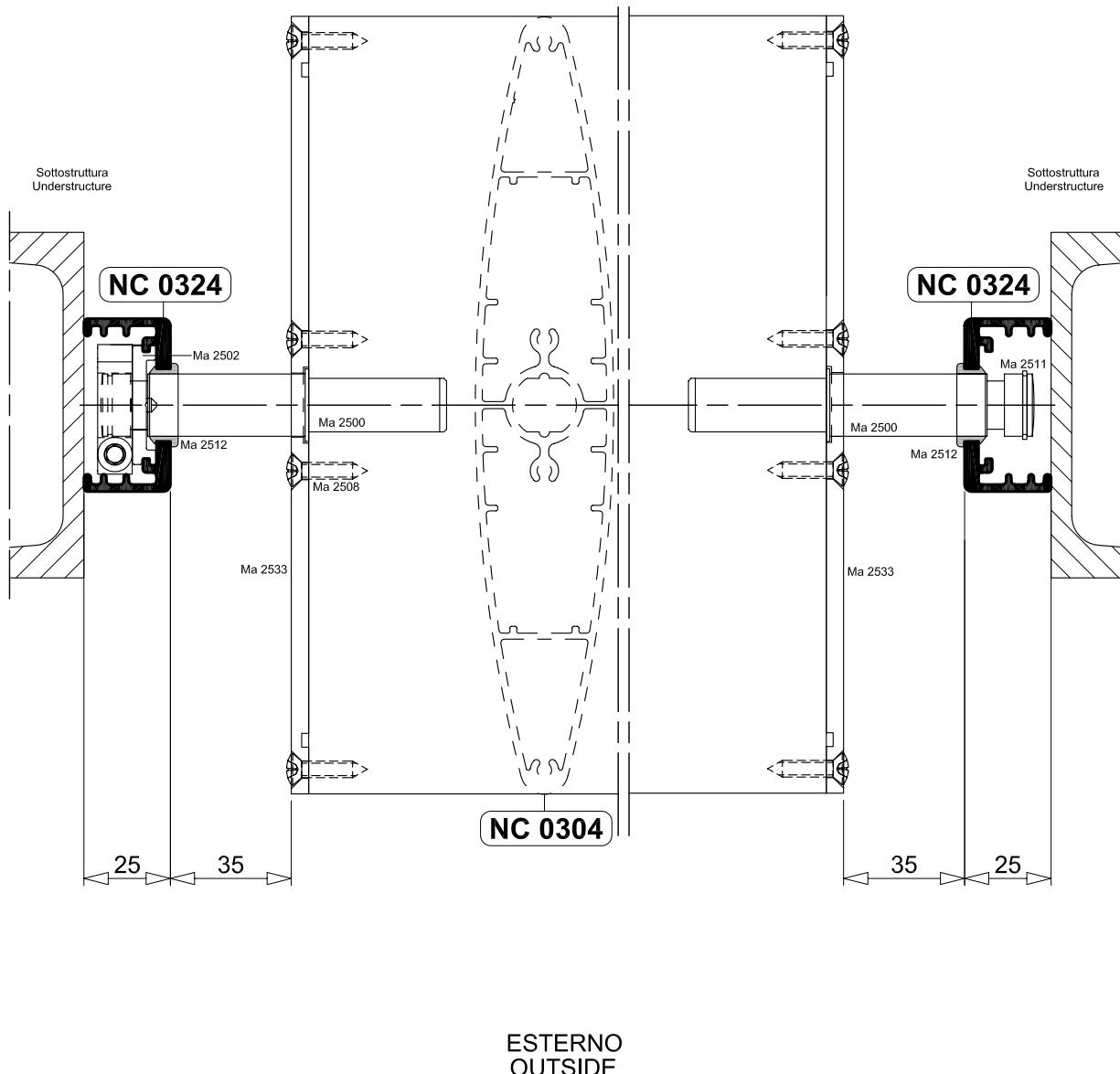


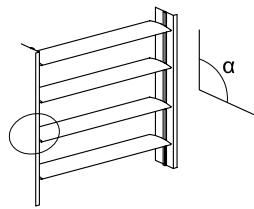
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

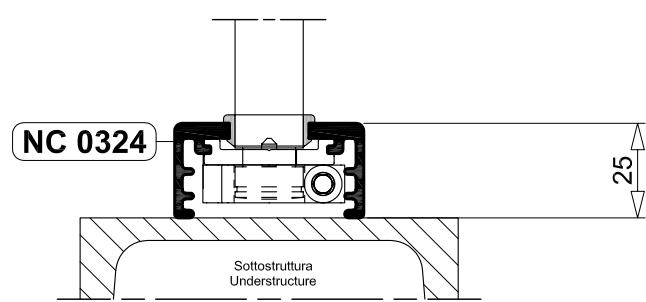
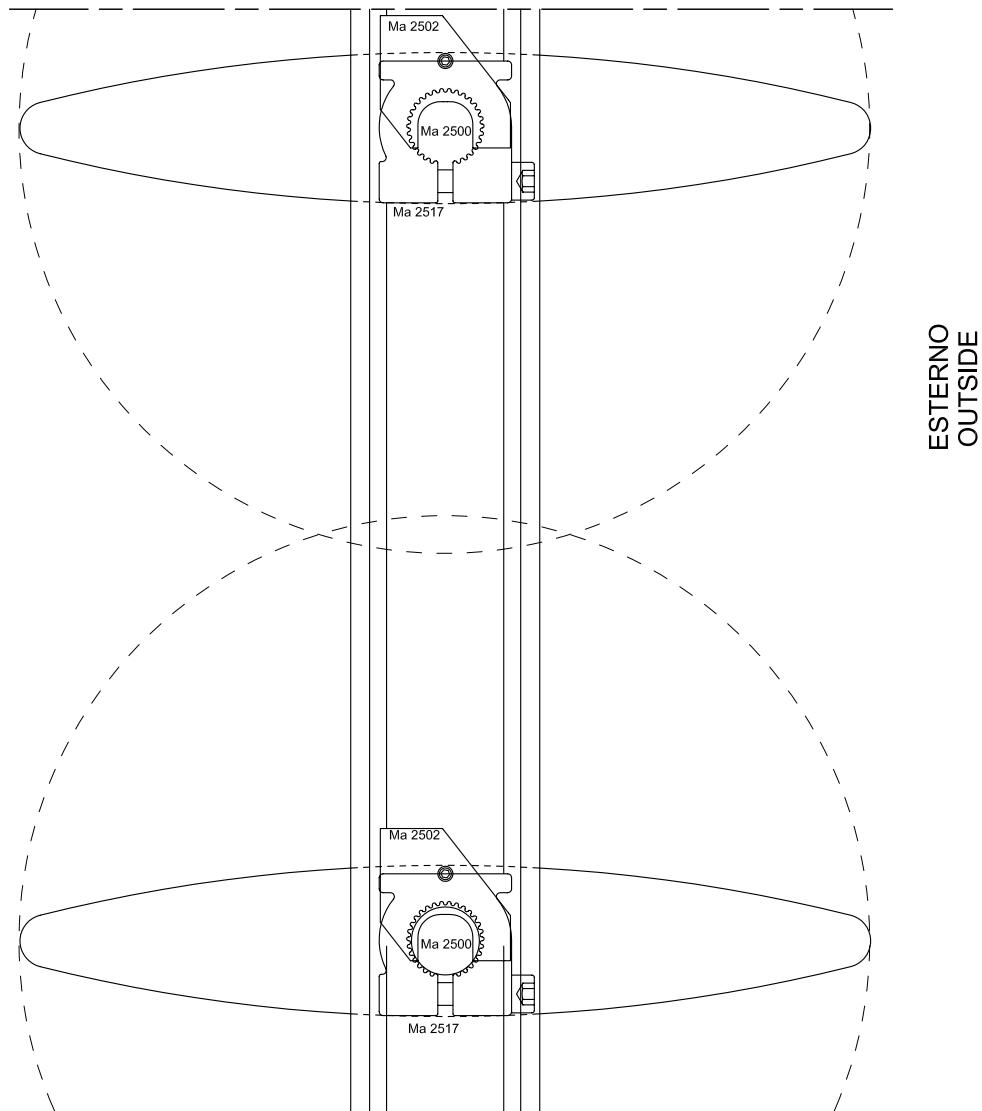


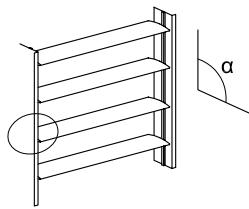
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0304
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	225 mm


 SCALA 1:2
SCALE 1:2



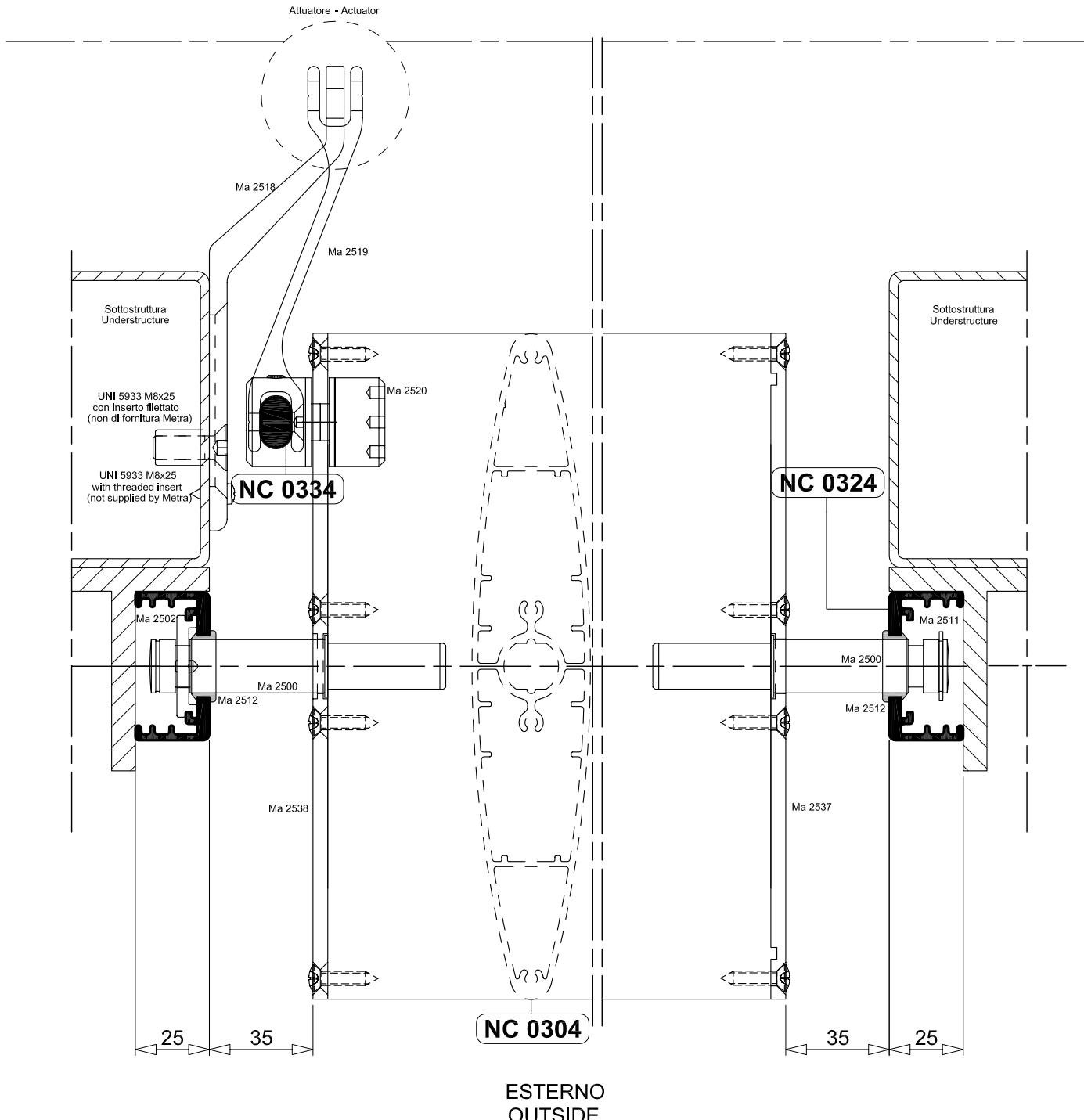
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0304
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	225 mm

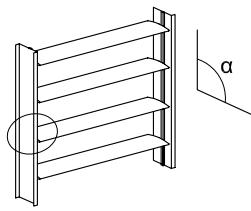

 SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	NC 0324	NC 0304

25 mm 225 mm


 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE SINGOLO - ANGOLO VARIABILE A COMANDO
SINGLE MULLION - CONTROLLED VARIABLE ANGLE

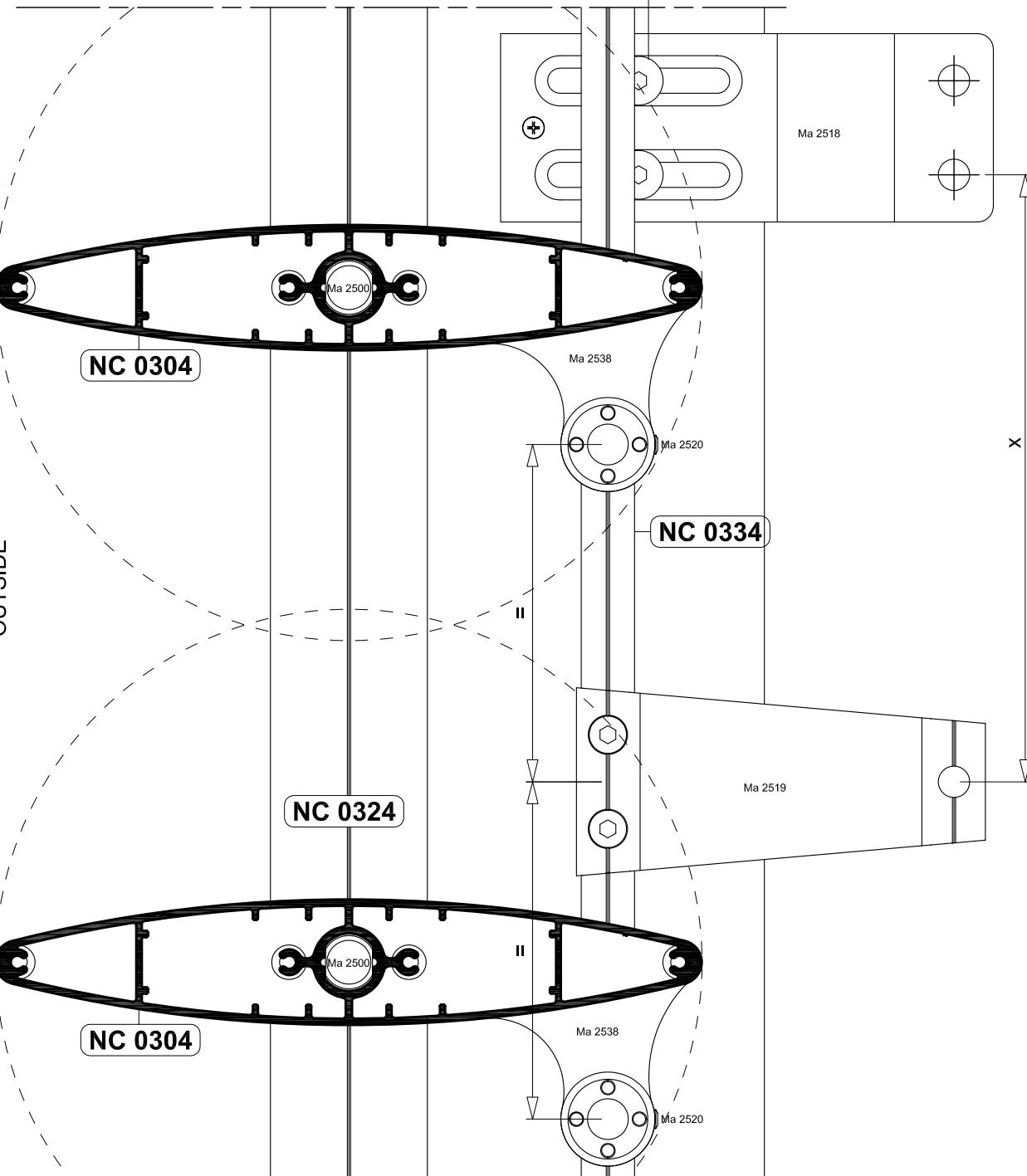
MONTANTE
MULLION
NC 0324
25 mm

LAMELLA
BLADE
NC 0304
225 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)
with threaded insert
(not supplied by Metra)

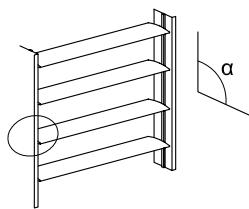
UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

ESTERNO
OUTSIDE

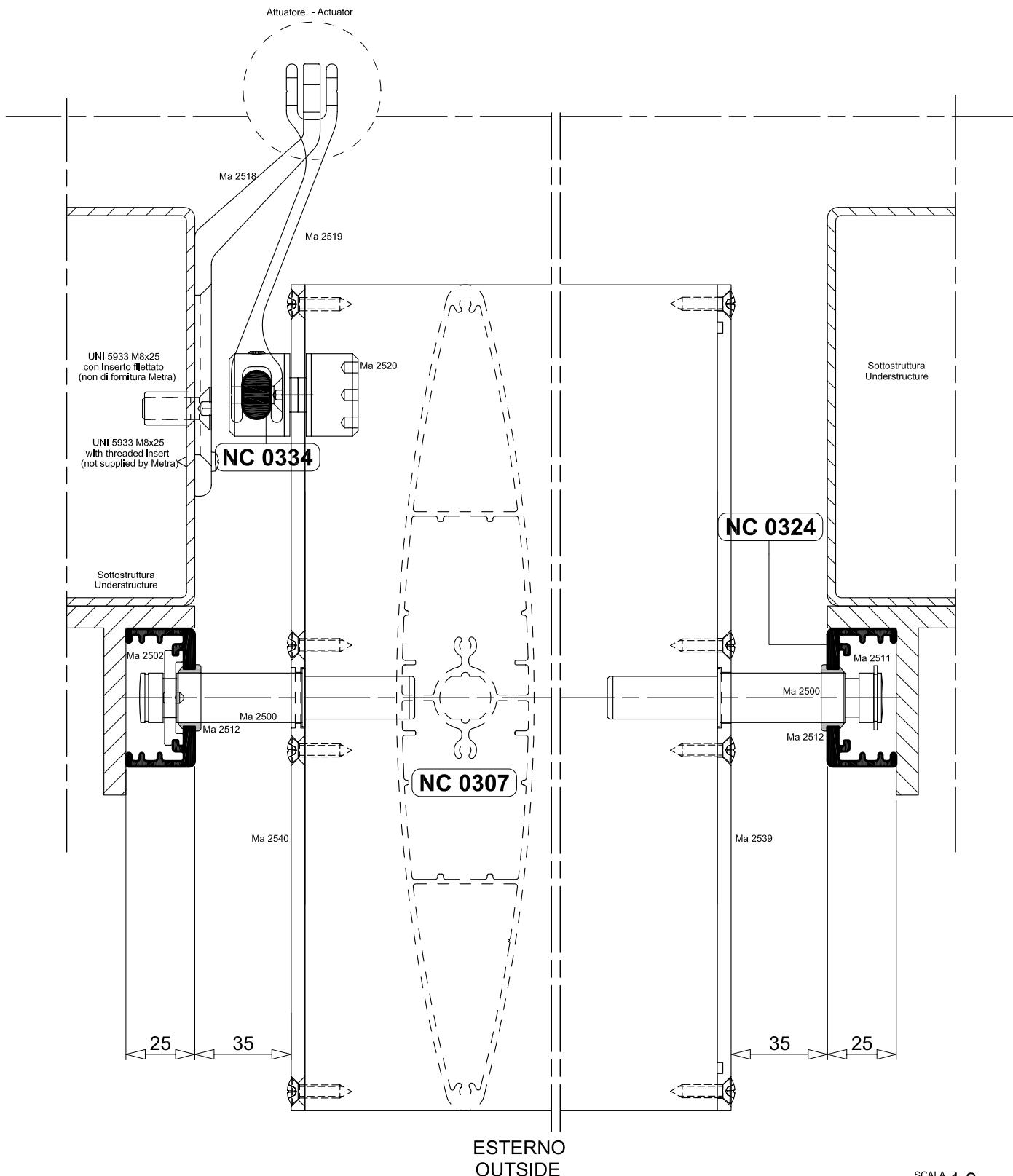


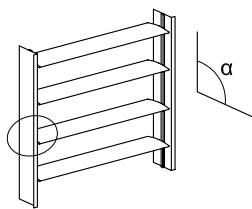
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	
MONTANTE	LAMELLA
MULLION	BLADE
NC 0324	NC 0307
25 mm	300 mm

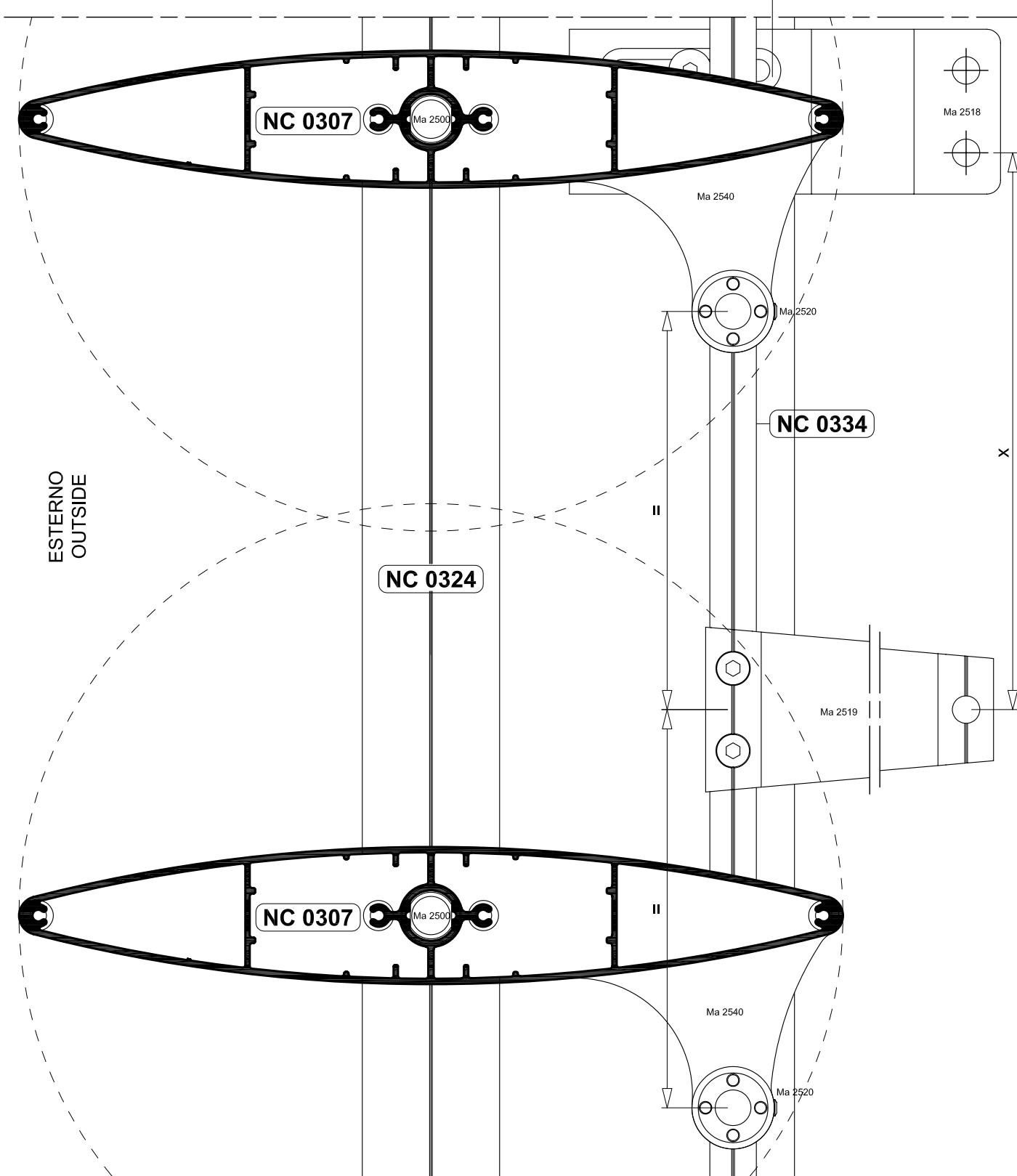




SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO
REDUCED MULLION - CONTROLLED VARIABLE ANGLE

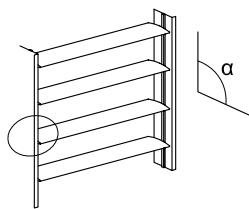
MONTANTE MULLION	LAMELLA BLADE
NC 0324	NC 0307
25 mm	300 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra) UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

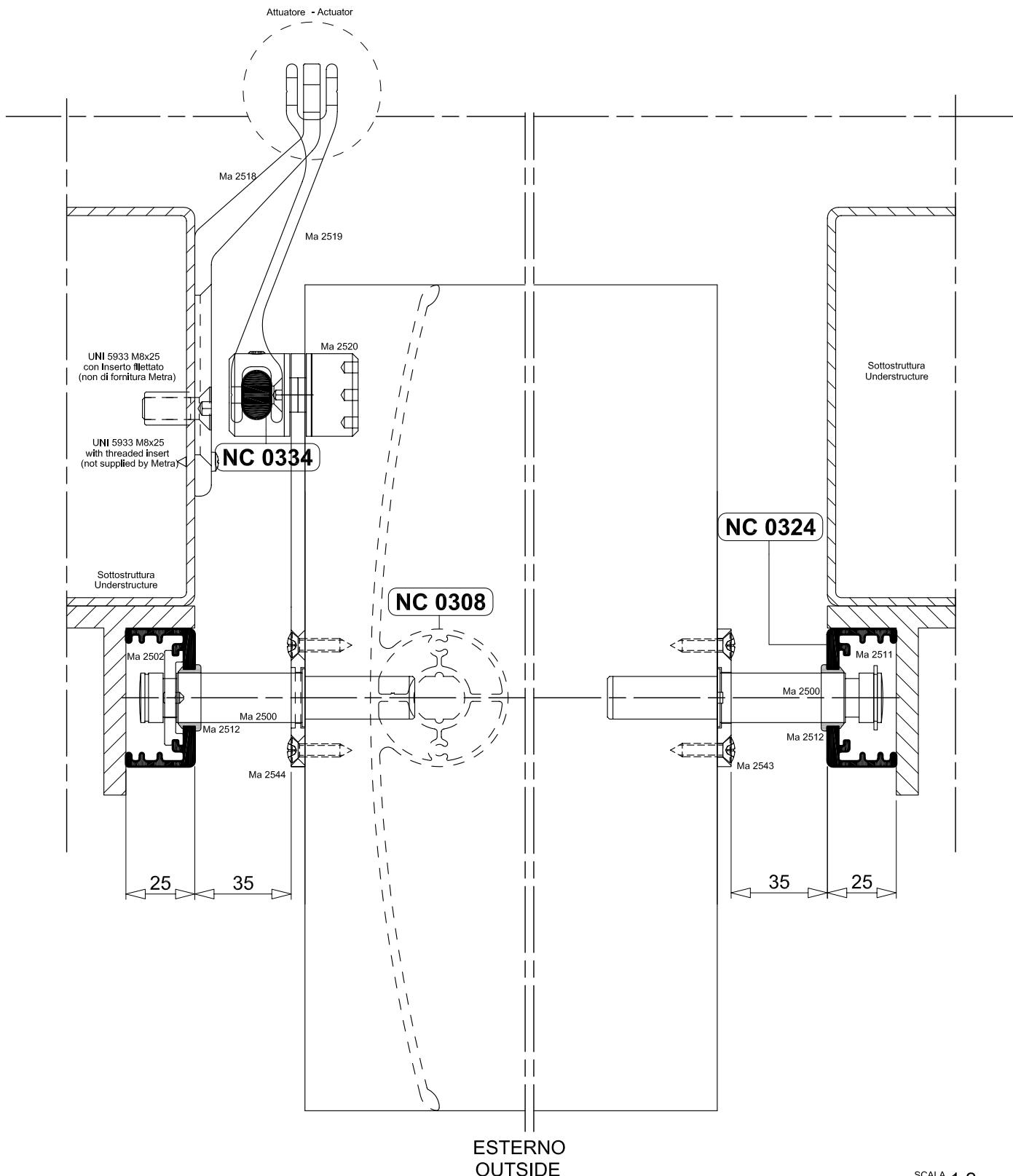


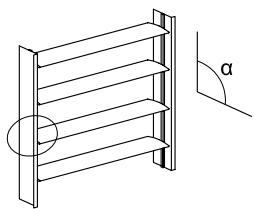
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	
NC 0324	LAMELLA BLADE
25 mm	NC 0308
300 mm	

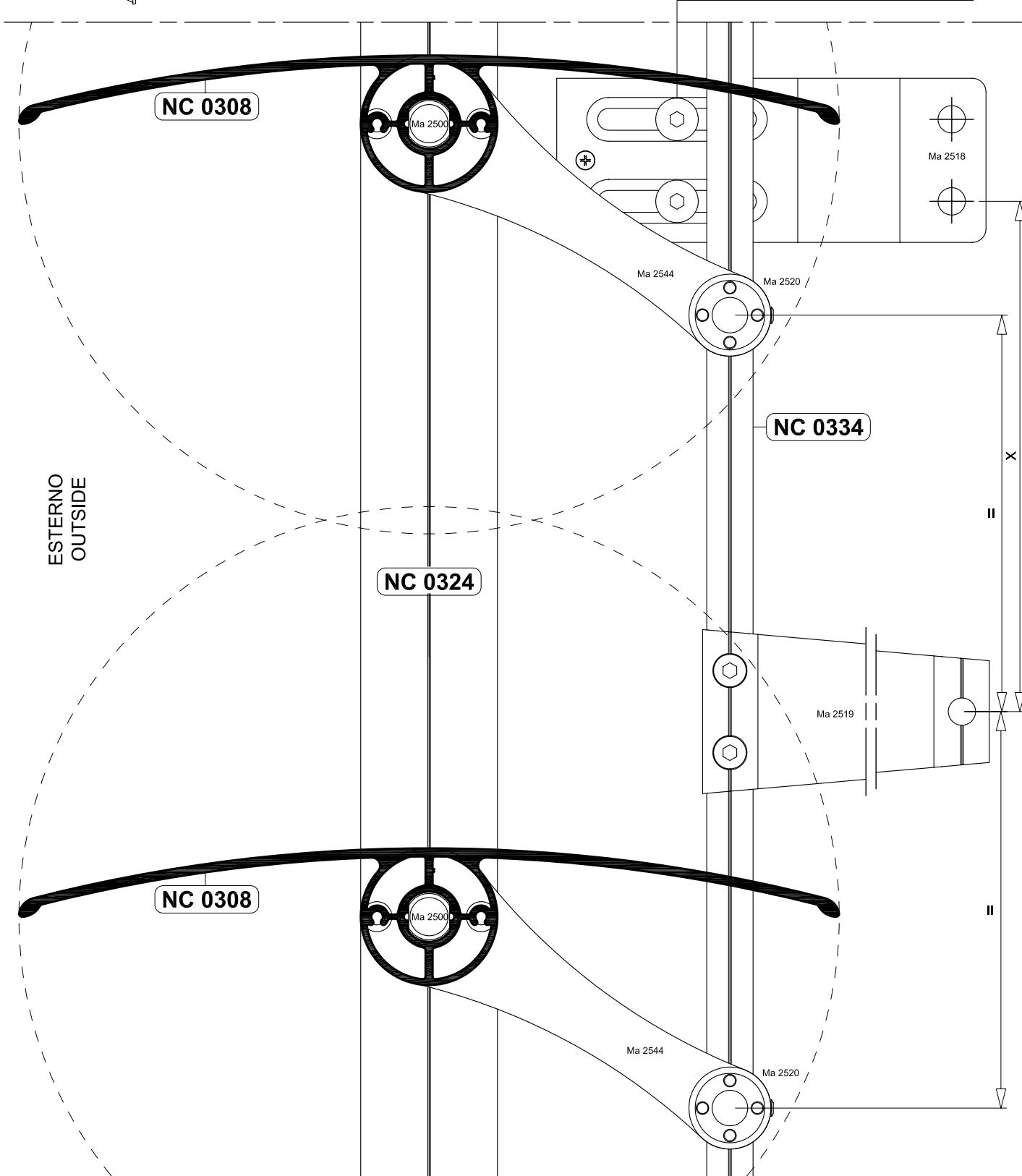

 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO
REDUCED MULLION - CONTROLLED VARIABLE ANGLE

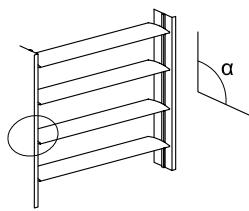
MONTANTE MULLION	LAMELLA BLADE
NC 0324	NC 0308
25 mm	300 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra) UNI 5933 M8x25
with threaded insert
(not supplied by Metra)



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

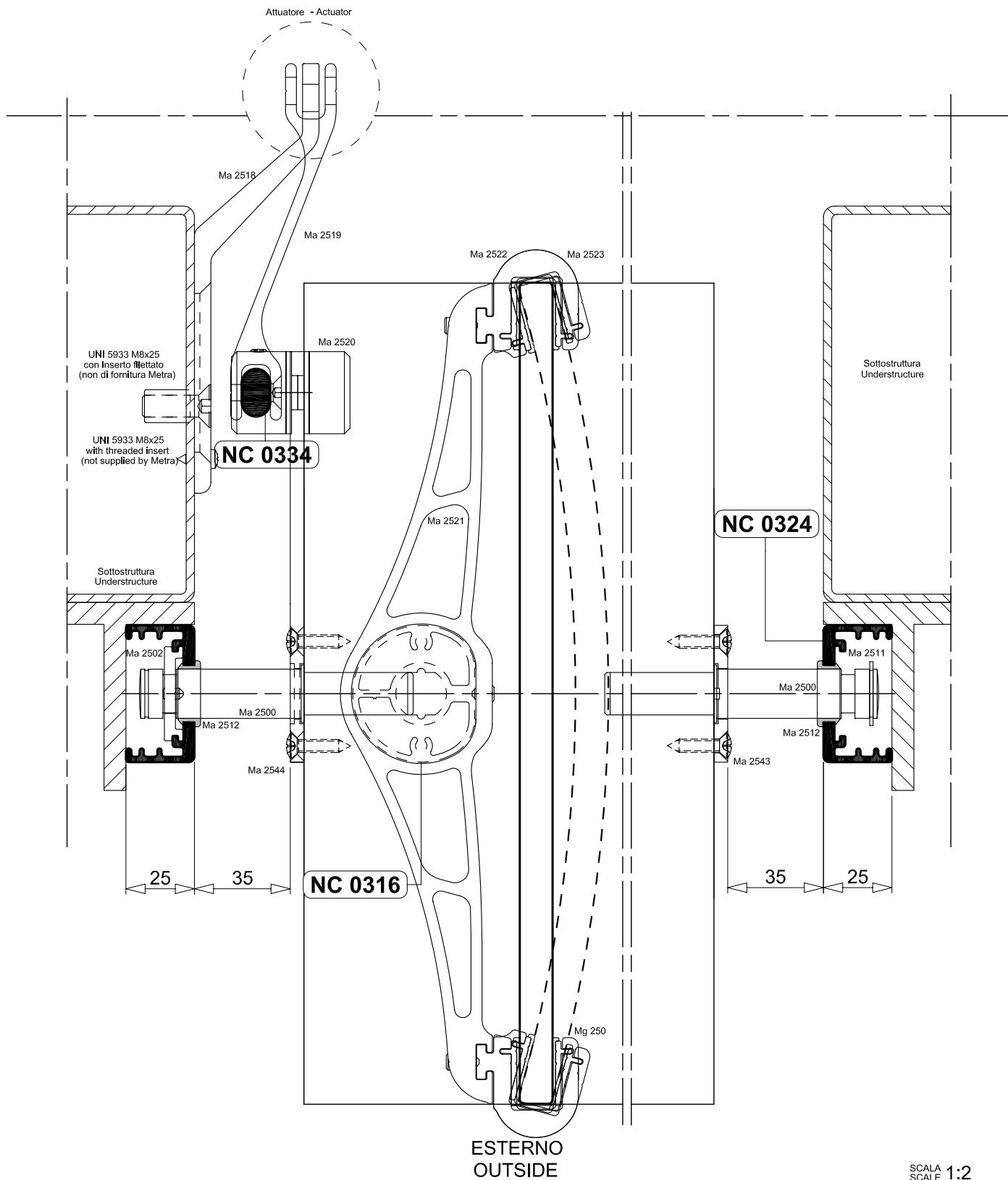


SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE

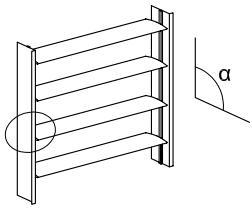
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO
REDUCED MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE
MULLION
NC 0324
25 mm

LAMELLA
BLADE
VETRO
GLASS
300 mm



SCALA 1:2
SCALE 1:2



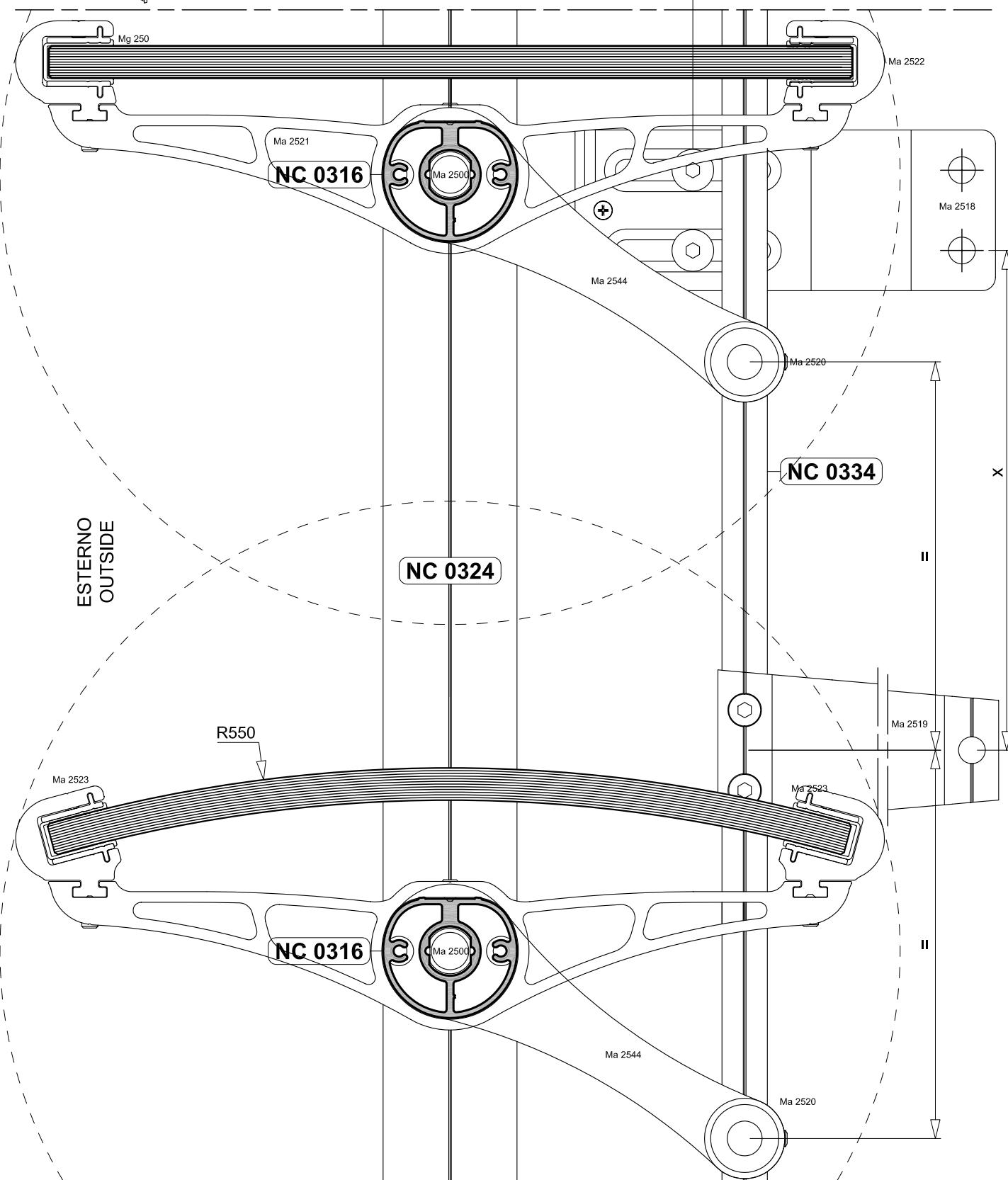
SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE

MONTANTE RIDOTTO - ANGolo VARIABILE A COMANDO
REDUCED MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0324	VETRO GLASS
25 mm	300 mm

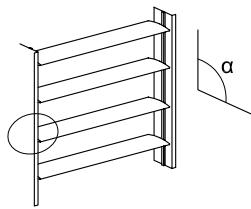
UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)

UNI 5933 M8x25
with threaded insert
(not supplied by Metra)



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

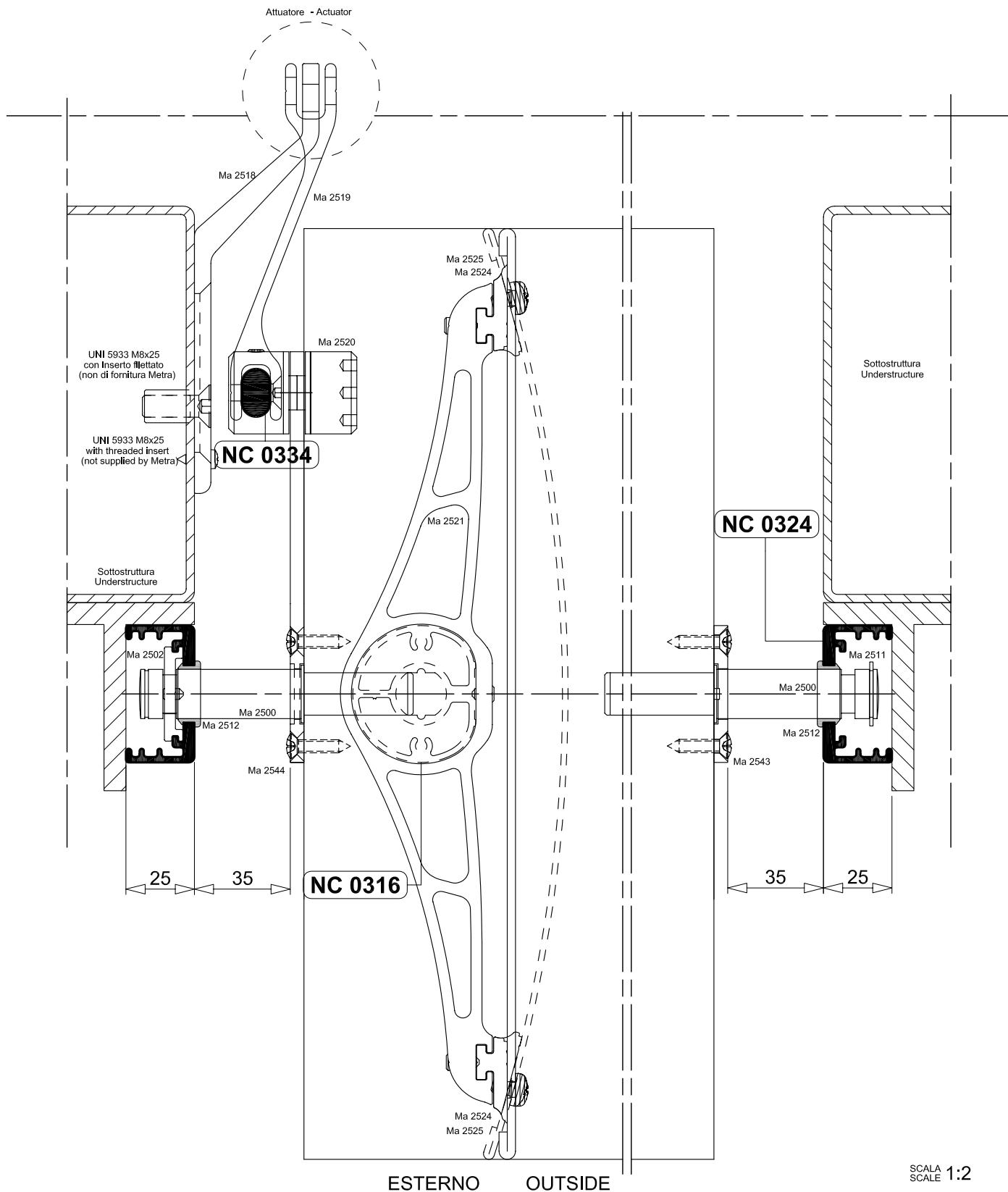
SCALA
SCALE 1:2

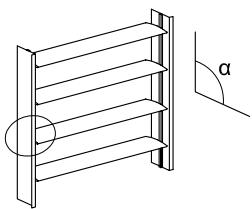


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	

MONTANTE MULLION
NC 0324
25 mm

LAMELLA BLADE
LAMIERA METAL
300 mm

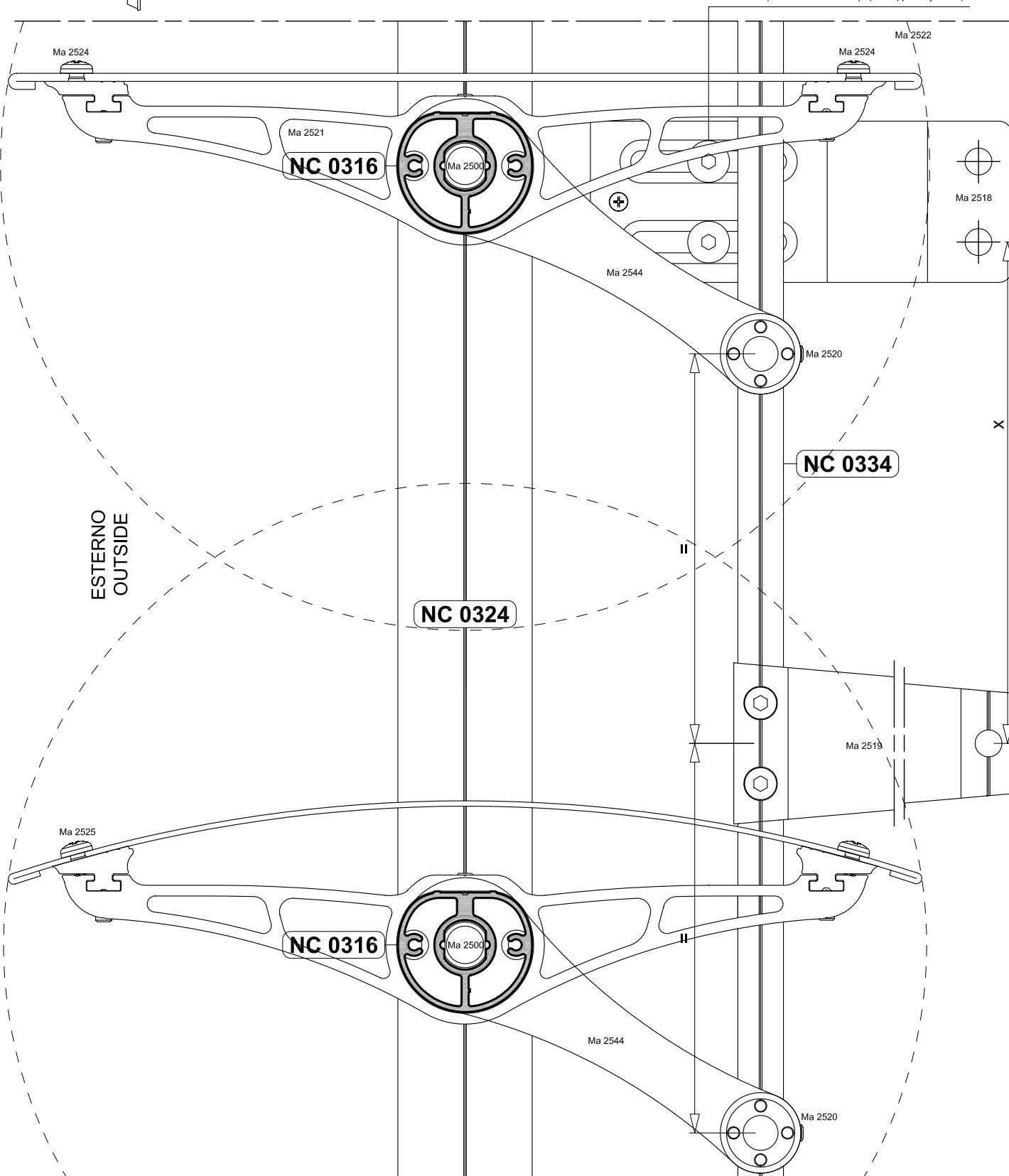




SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE RIDOTTO - ANGOLI VARIABILI A COMANDO
REDUCED MULLION - CONTROLLED VARIABLE ANGLE

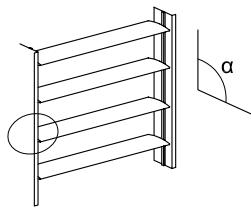
MONTANTE MULLION	LAMELLA BLADE
NC 0324	LAMIERA METAL
25 mm	300 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra) UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

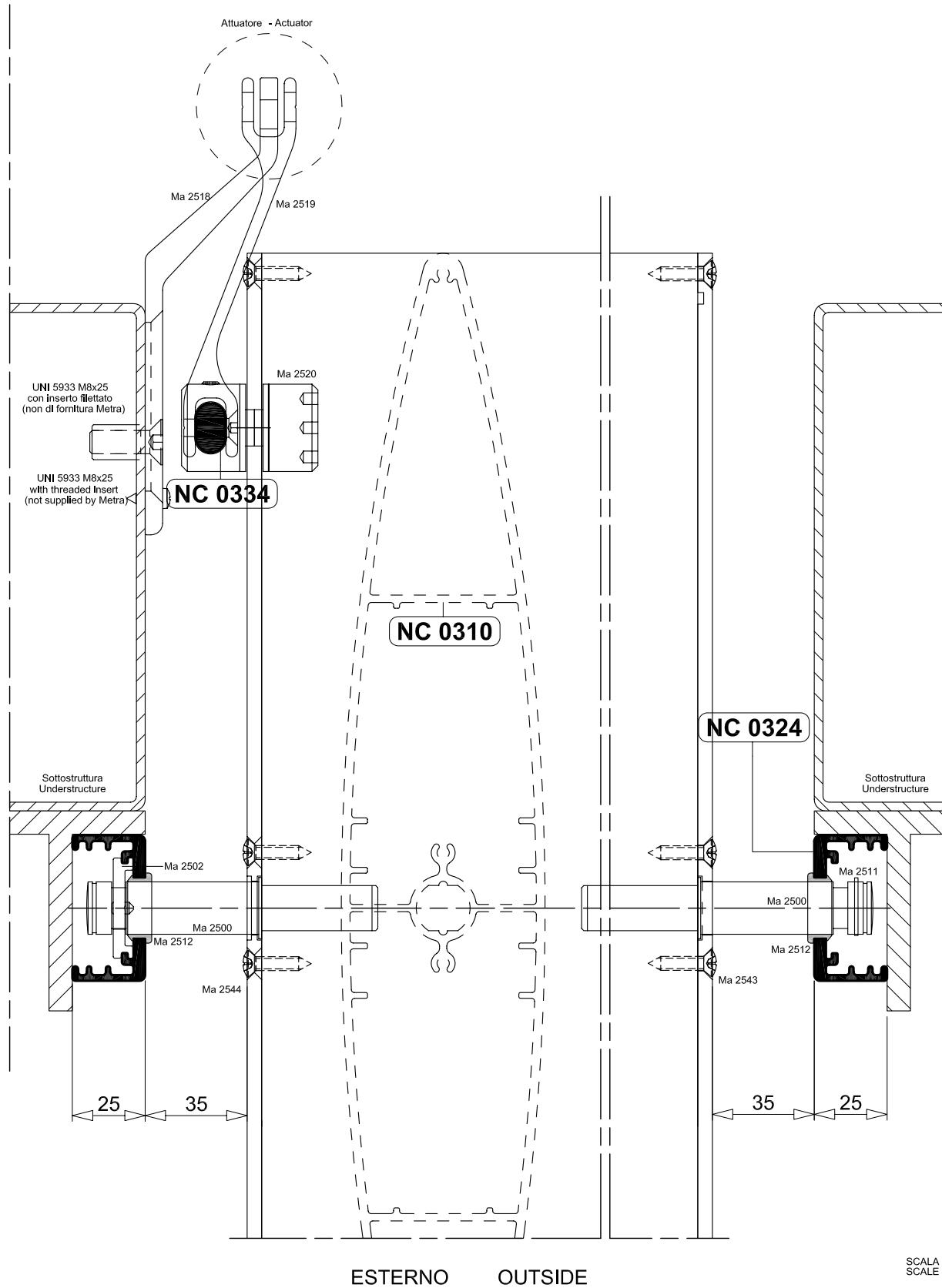


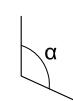
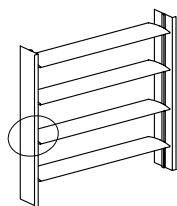
x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO REDUCED MULLION - CONTROLLED VARIABLE ANGLE	
NC 0324	LAMELLA BLADE
25 mm	NC 0310
450 mm	


 SCALA 1:2
SCALE 1:2

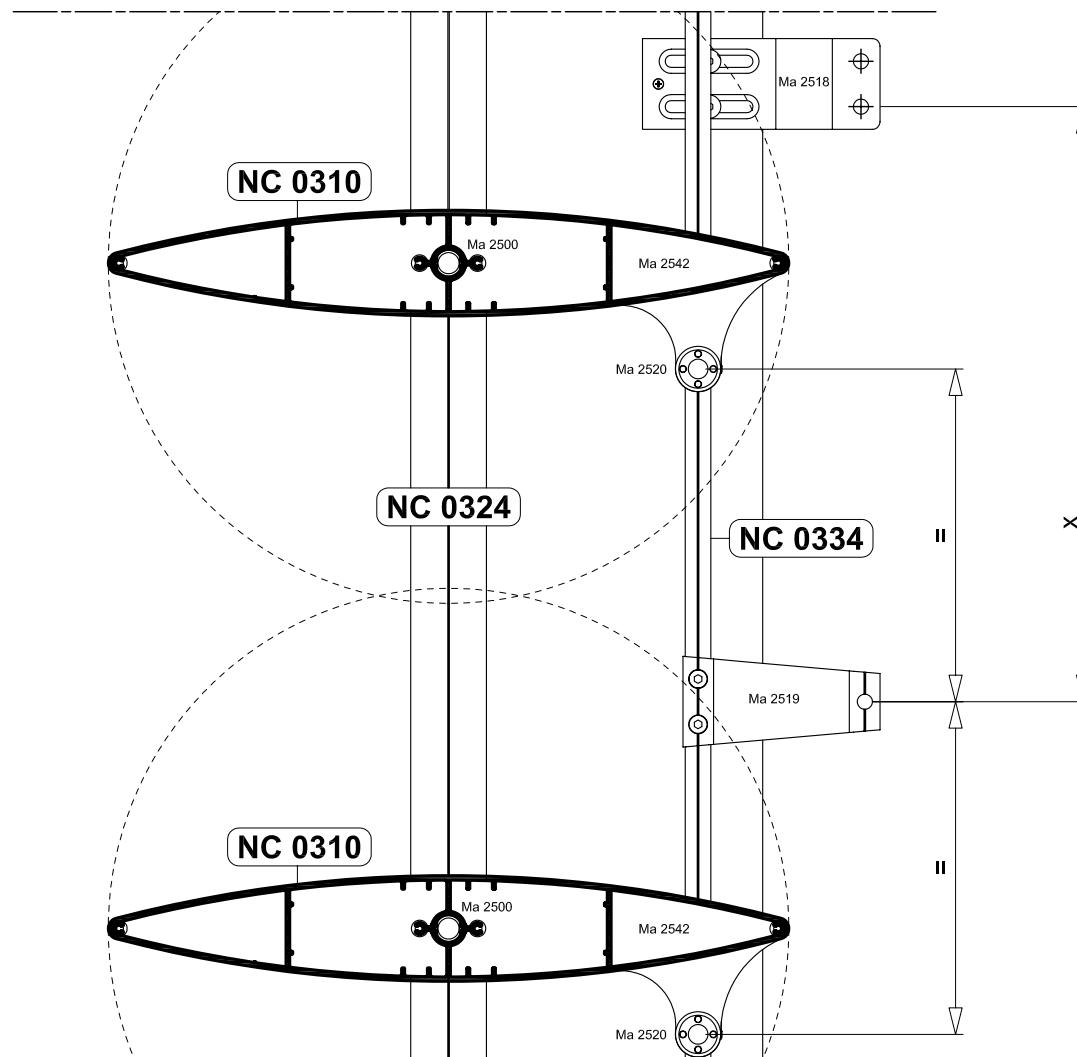


SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE

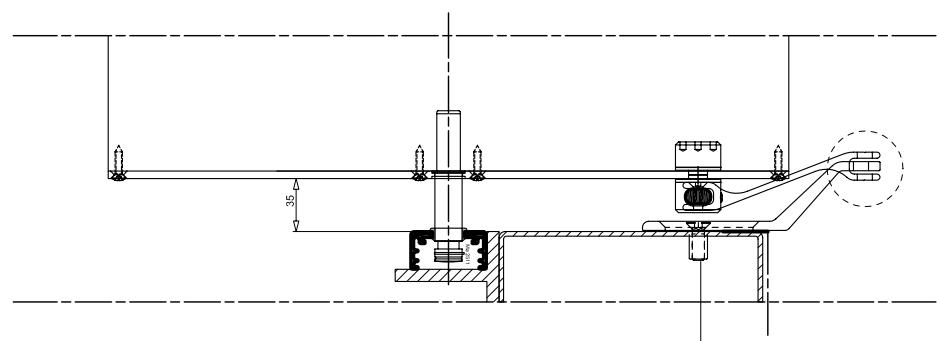
MONTANTE
MULLION
NC 0324
25 mm

LAMELLA
BLADE
NC 0310
450 mm

ESTERNO
OUTSIDE

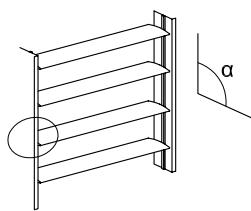


SCALE
SCALA 1:5



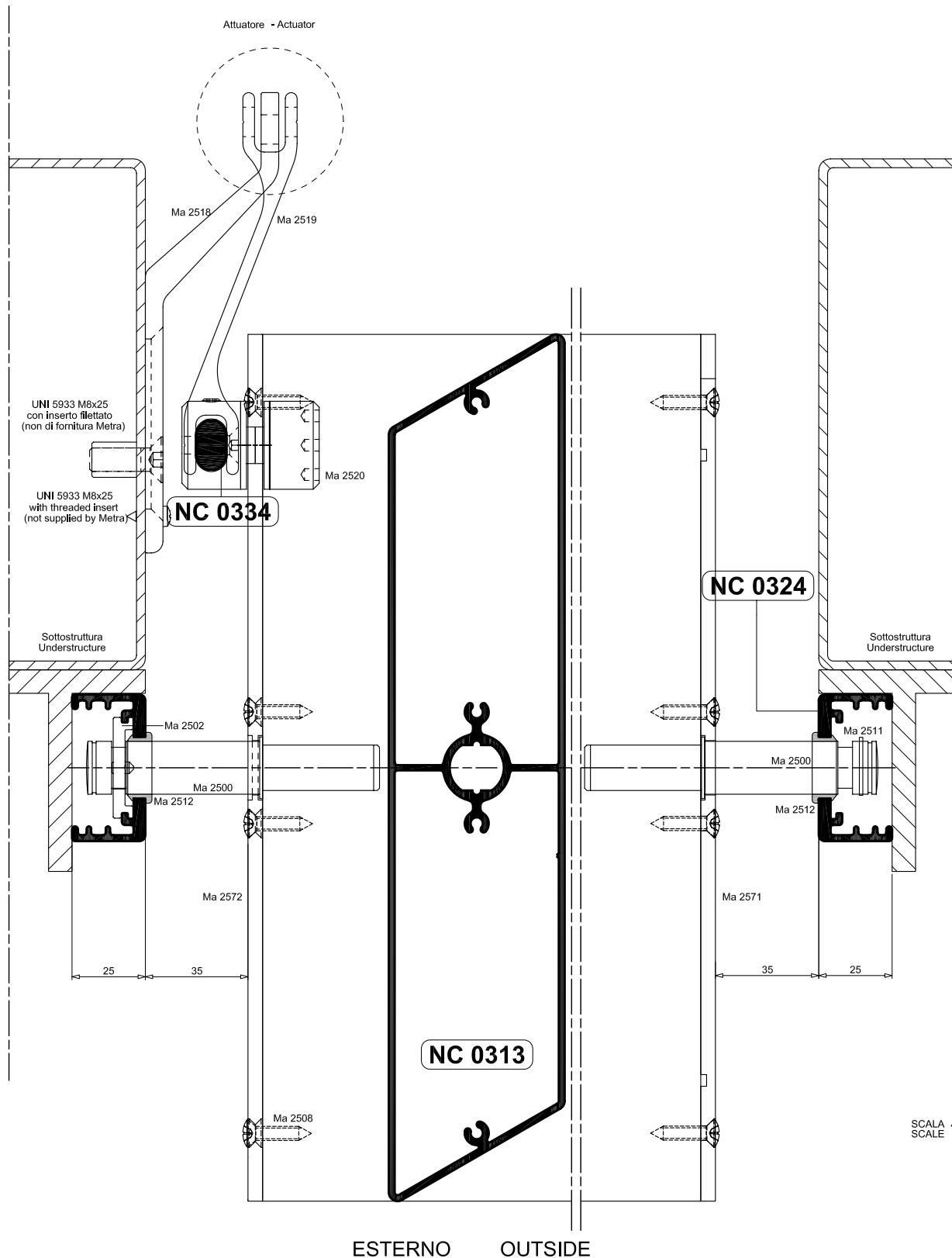
UNI 5933 M8x25
con Inserto filottato
(non di fornitura Metra)
UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)

x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

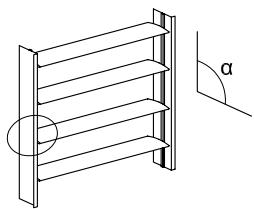


**SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE**

MONTANTE MULLION	LAMELLA BLADE
NC 0324	NC 0313
25 mm	300 mm



SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA
SOLUTIONS FOR UNDERSTRUCTURE
MONTANTE RIDOTTO - ANGOLO VARIABILE A COMANDO
REDUCED MULLION - CONTROLLED VARIABLE ANGLE

MONTANTE MULLION	LAMELLA BLADE
NC 0324	NC 0313
25 mm	300 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra)

UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

NC 0313

Ma 2500

Ma 2518

ESTERNO
OUTSIDE

NC 0324

NC 0334

Ma 2500

Ma 2519

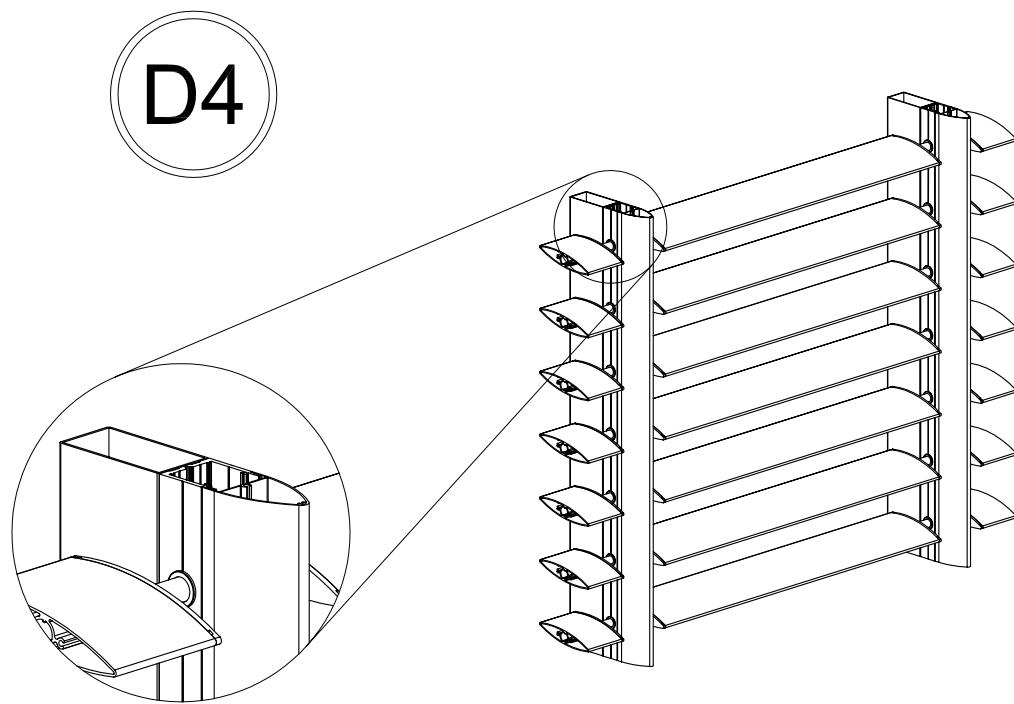
NC 0313

Ma 2572

Ma 2520

x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2



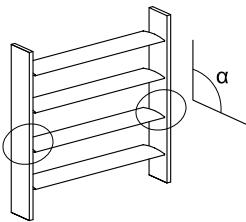
GRUPPO
GROUP
D4

Frangisole orizzontale per sottostruttura. Angoli prestabiliti e variabili.
Horizontal sunblade for understructure. Pre-set and variable orientation.

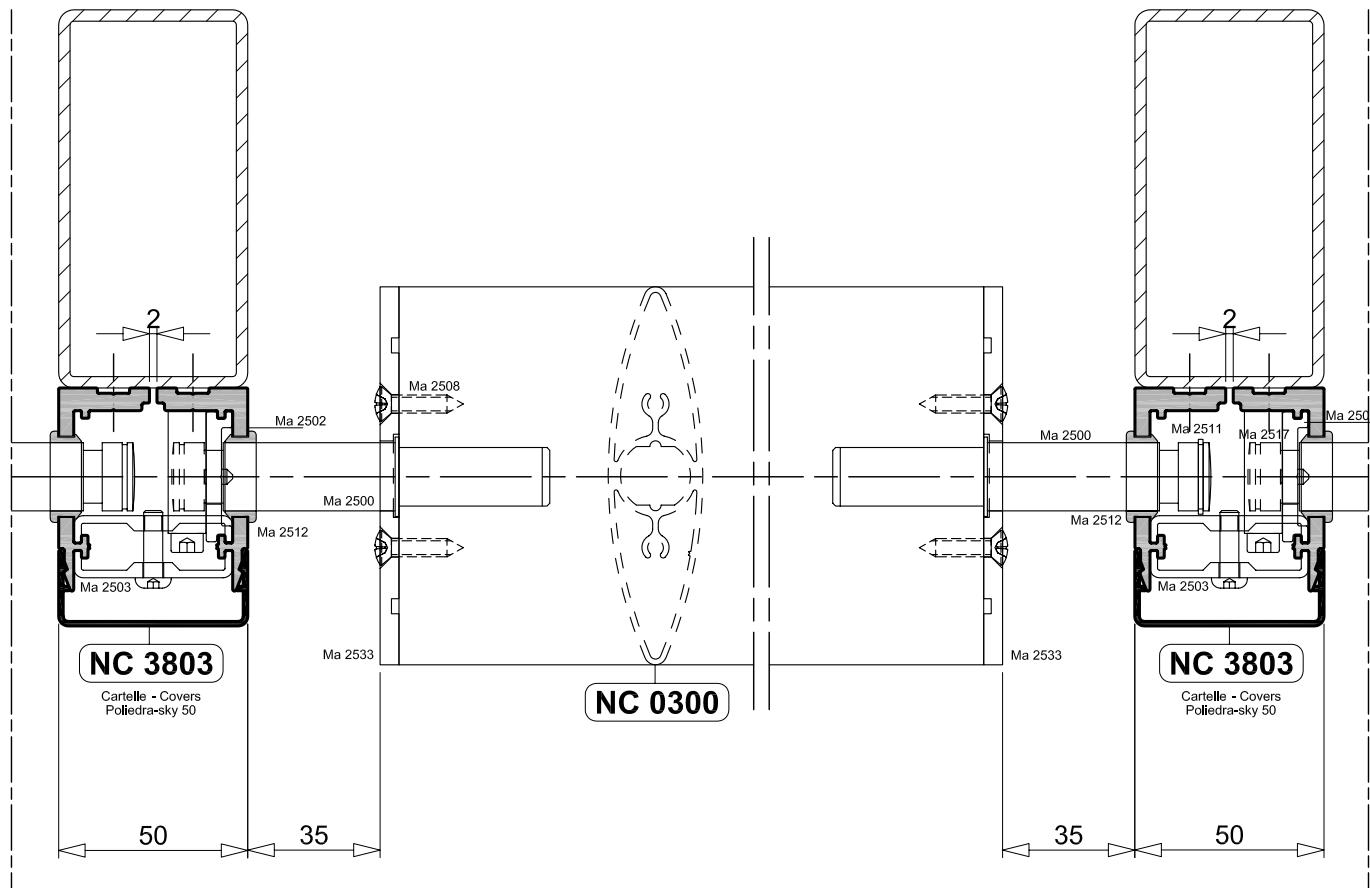
FRANGISOLE ORIZZONTALE SEZIONI HORIZONTAL SUNBLADE SECTIONS

- GRUPPO D4
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

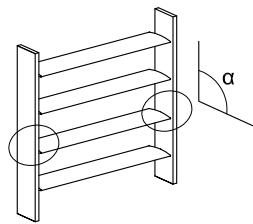
- GROUP D4
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS



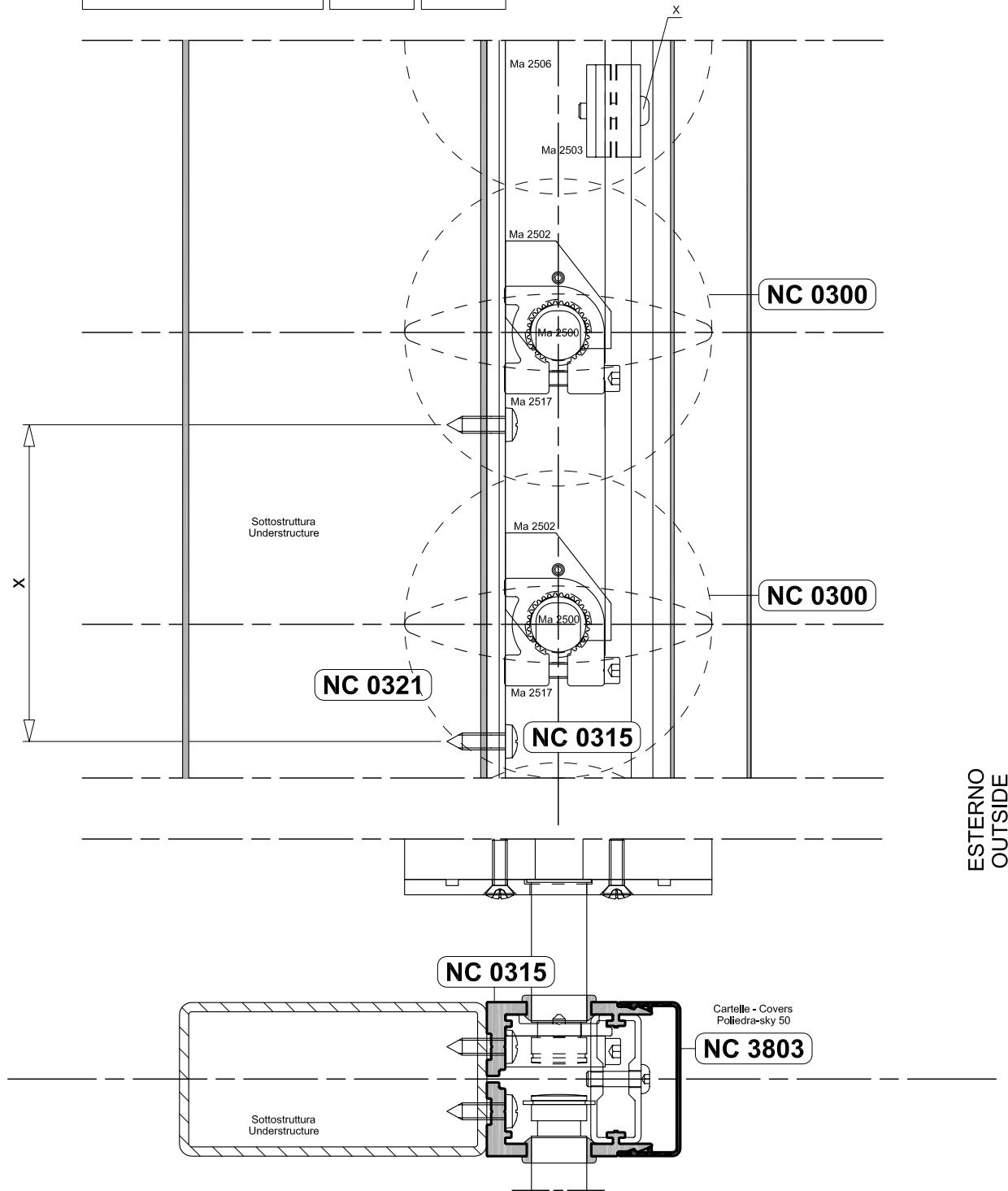
SOLUZIONE PER SOTTOSTRUTTURA SOLUTION FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO - ANGOLI PRESTABILITI BEARING PROFILES - PRE-SET ANGLES	-	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	-	100 mm


 ESTERNO
 OUTSIDE

 SCALA 1:2
 SCALE 1:2

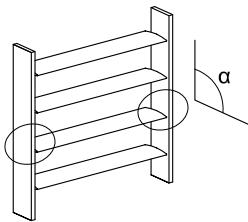


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO - ANGOLI PRESTABILITI BEARING PROFILES - PRE-SET ANGLES	-	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	-	100 mm

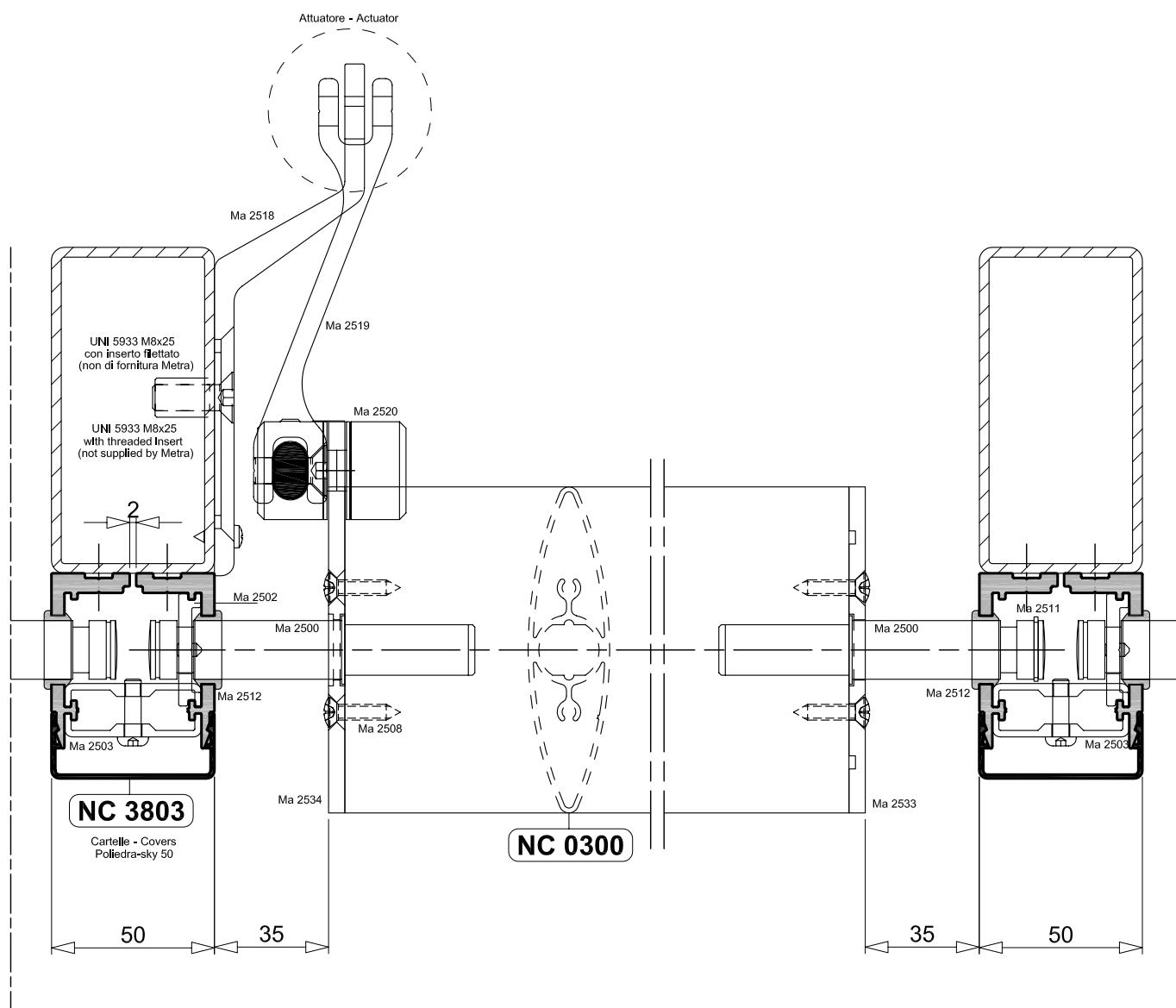


x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
 x: interaxis of fixing and parallelism elements as per static requirements

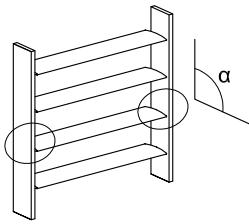
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO ANGolo VARIAbILE A COMANDO BEARING PROFILES CONTROLLED VARIABLE ANGLE	-	NC 0300
	-	100 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

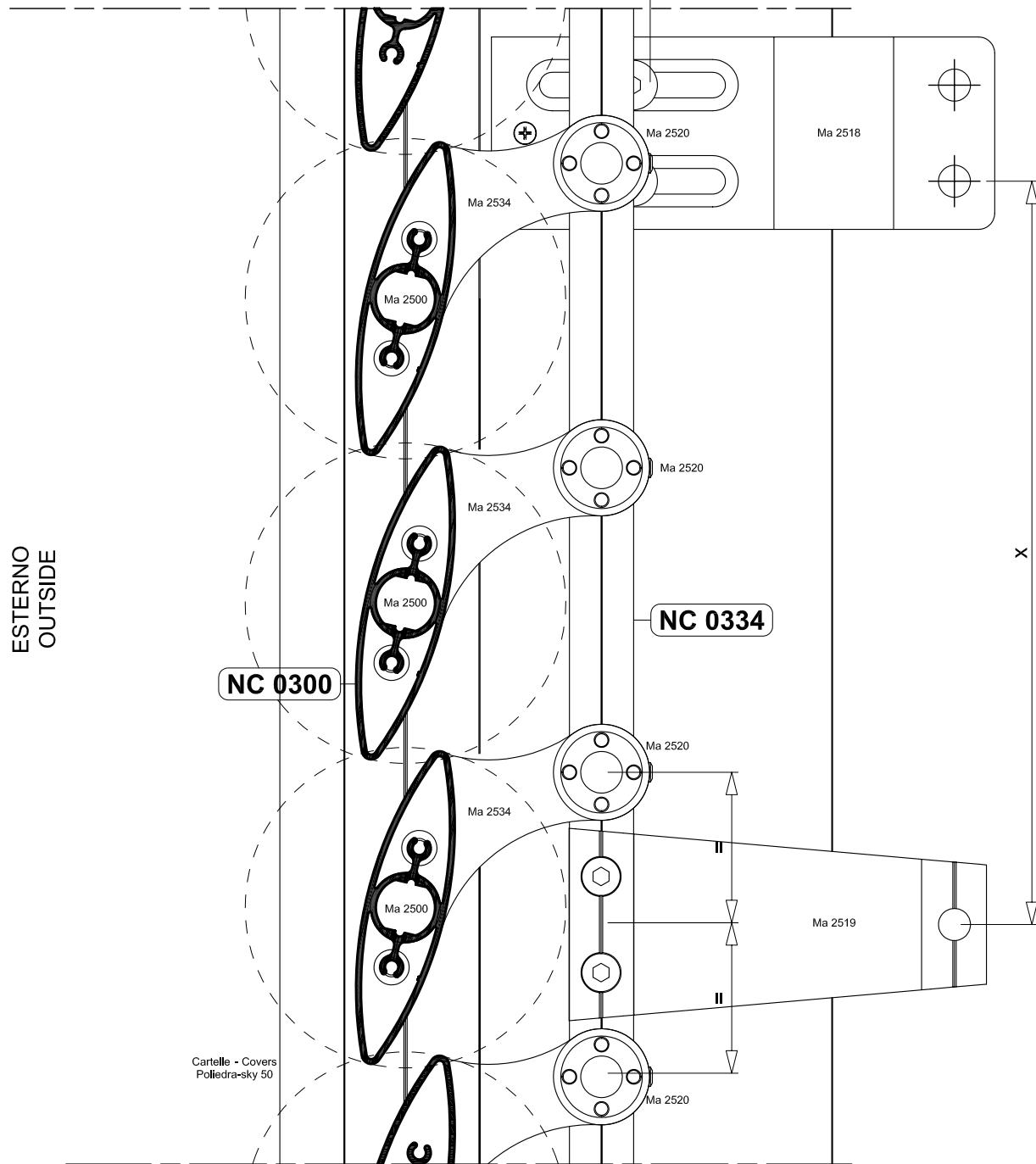


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO ANGOLI VARIABILI A COMANDO BEARING PROFILES CONTROLLED VARIABLE ANGLE	-	NC 0300
-	-	100 mm

MONTANTE MULLION	LAMELLA BLADE
-	NC 0300
-	100 mm

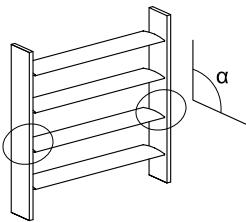
UNI 5933 M8x25
con Inserto filottato
(non di fornitura Metra)
with threaded Insert
(not supplied by Metra)

UNI 5933 M8x25
with threaded Insert
(not supplied by Metra)

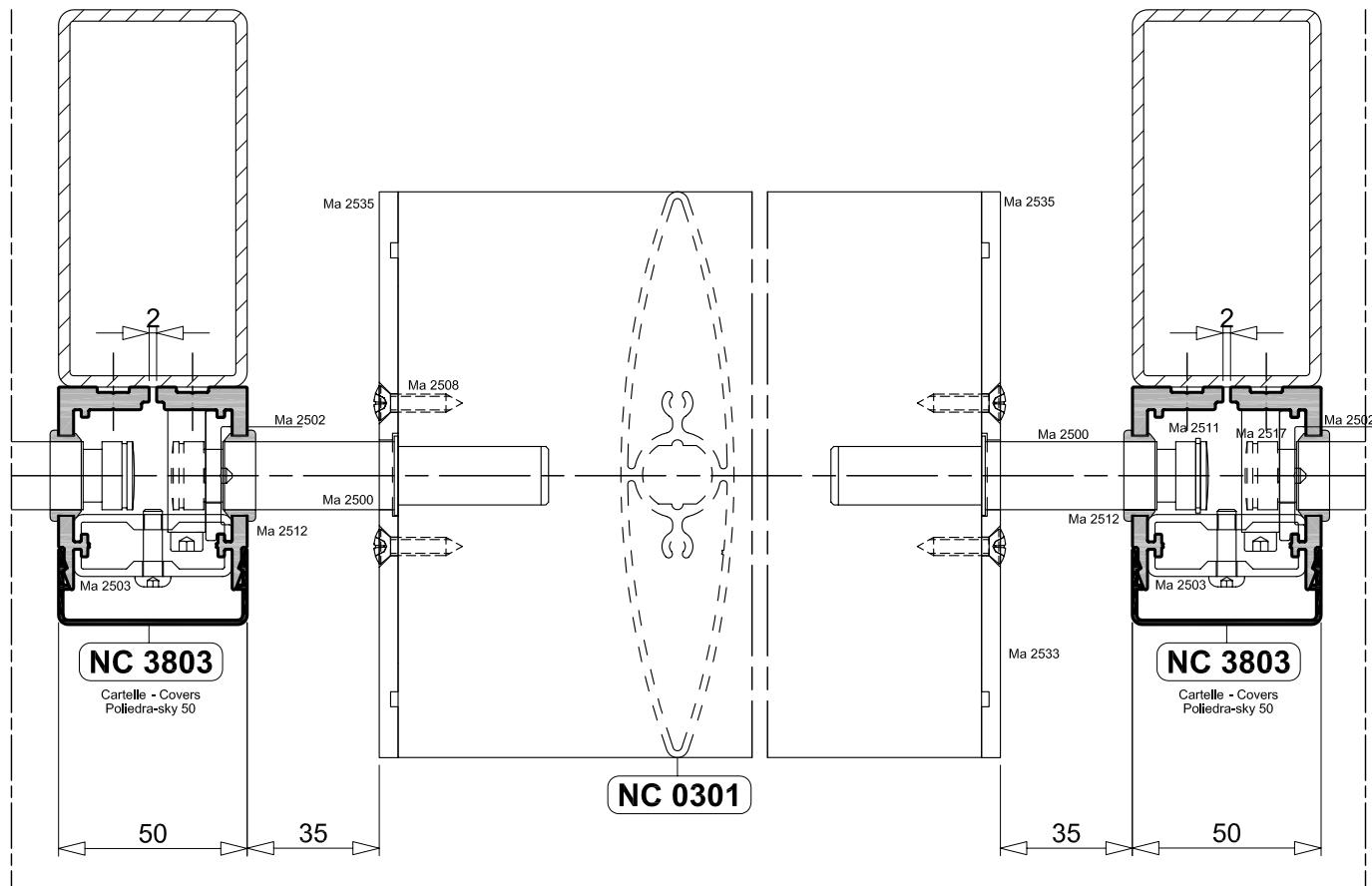


x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
 x: Interaxis following to the actuator features and to the rotation angle required

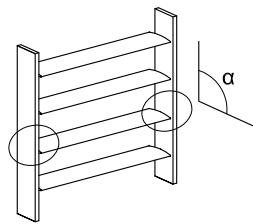
SCALA
SCALE 1:2



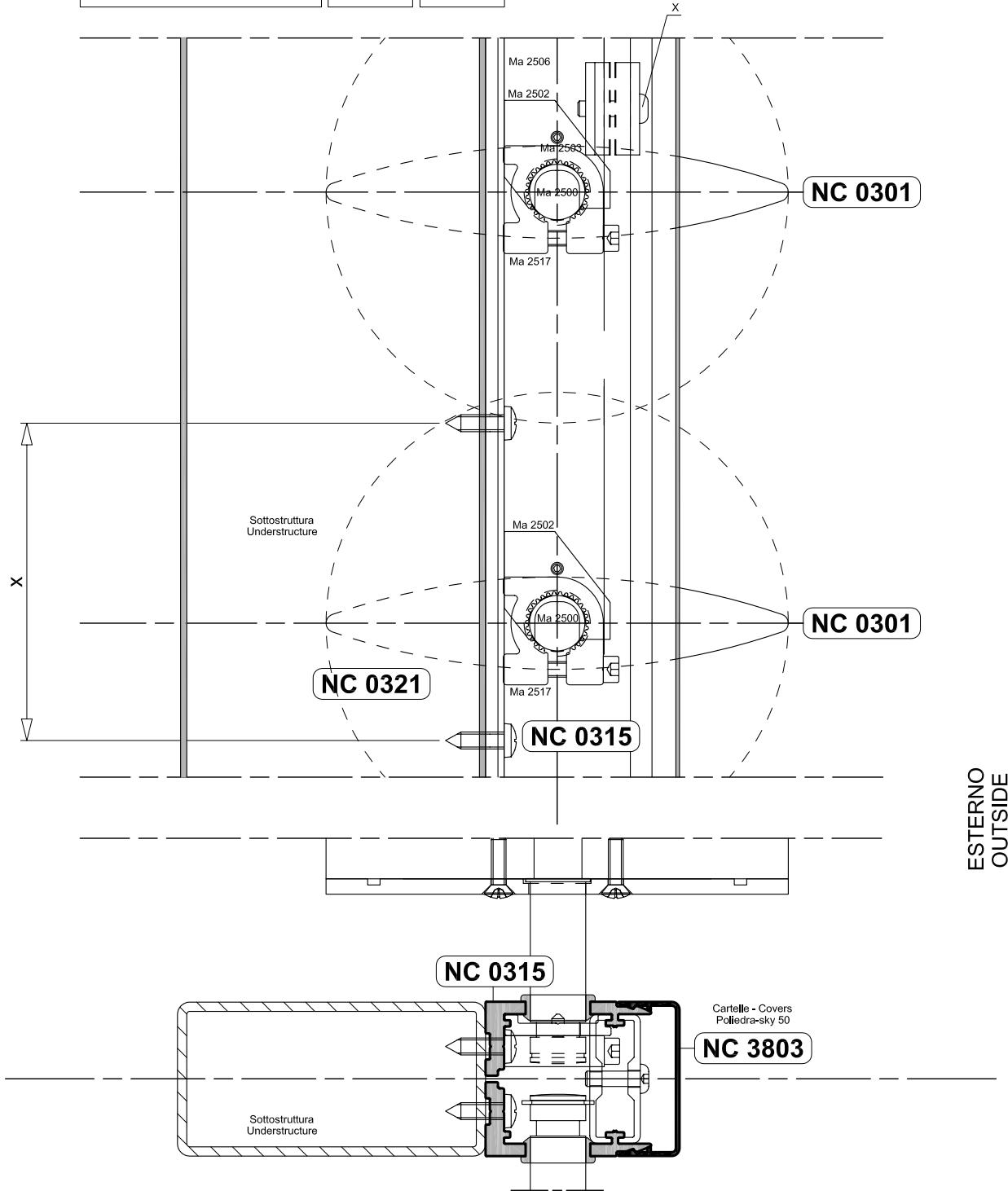
SOLUZIONE PER SOTTOSTRUTTURA SOLUTION FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO - ANGOLI PRESTABILITI BEARING PROFILES - PRE-SET ANGLES	-	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	-	150 mm


 ESTERNO
OUTSIDE

 SCALA 1:2
SCALE 1:2

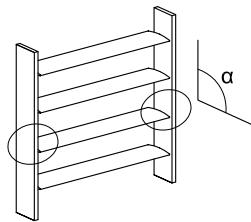


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO - ANGOLI PRESTABILITI BEARING PROFILES - PRE-SET ANGLES	-	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	-	150 mm

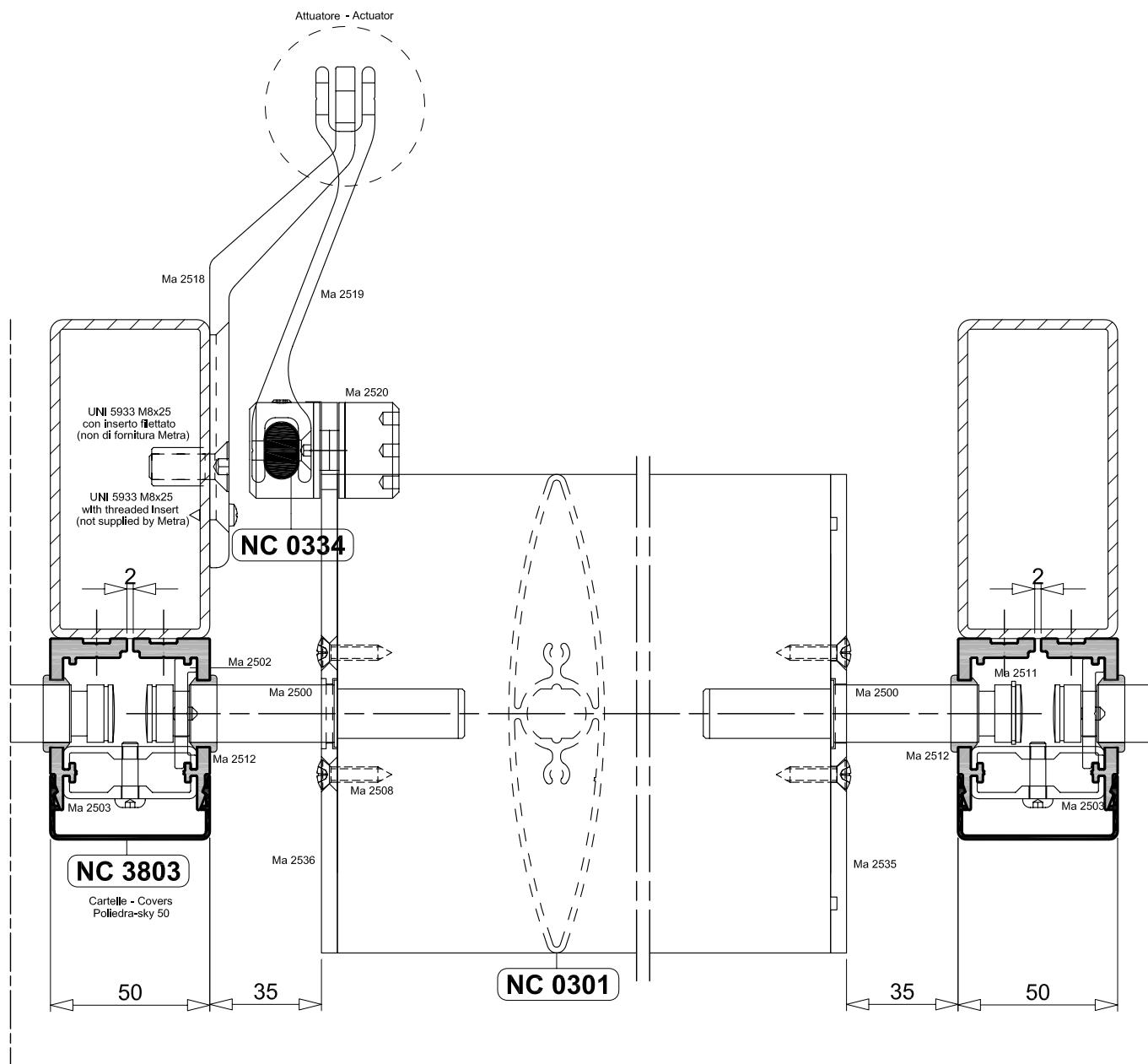


x: interasse elementi di fissaggio e di parallelismo secondo i requisiti statici
x: interaxis of fixing and parallelism elements as per static requirements

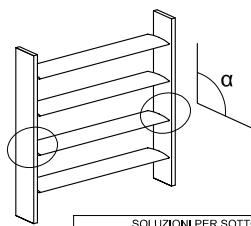
SCALA
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO ANGolo VARIAbILE A COMANDO BEARING PROFILES CONTROLLED VARIABLE ANGLE	-	NC 0301
	-	150 mm


 ESTERNO
OUTSIDE

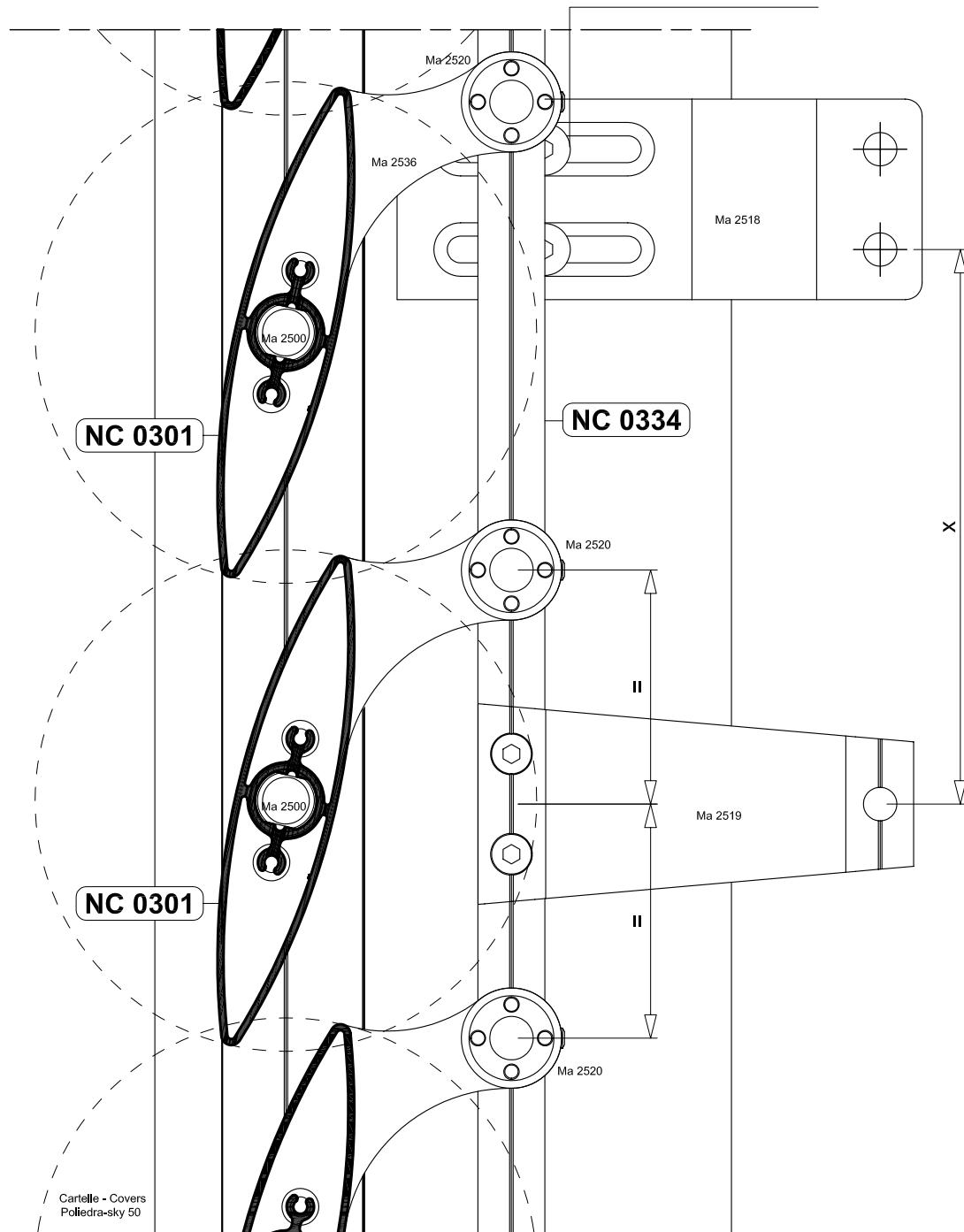
 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
PROFILATI DI SUPPORTO ANGOLI VARIABILI A COMANDO BEARING PROFILES CONTROLLED VARIABLE ANGLE	-	NC 0301
	-	150 mm

UNI 5933 M8x25
con inserto filettato
(non di fornitura Metra) UNI 5933 M8x25
with threaded insert
(not supplied by Metra)

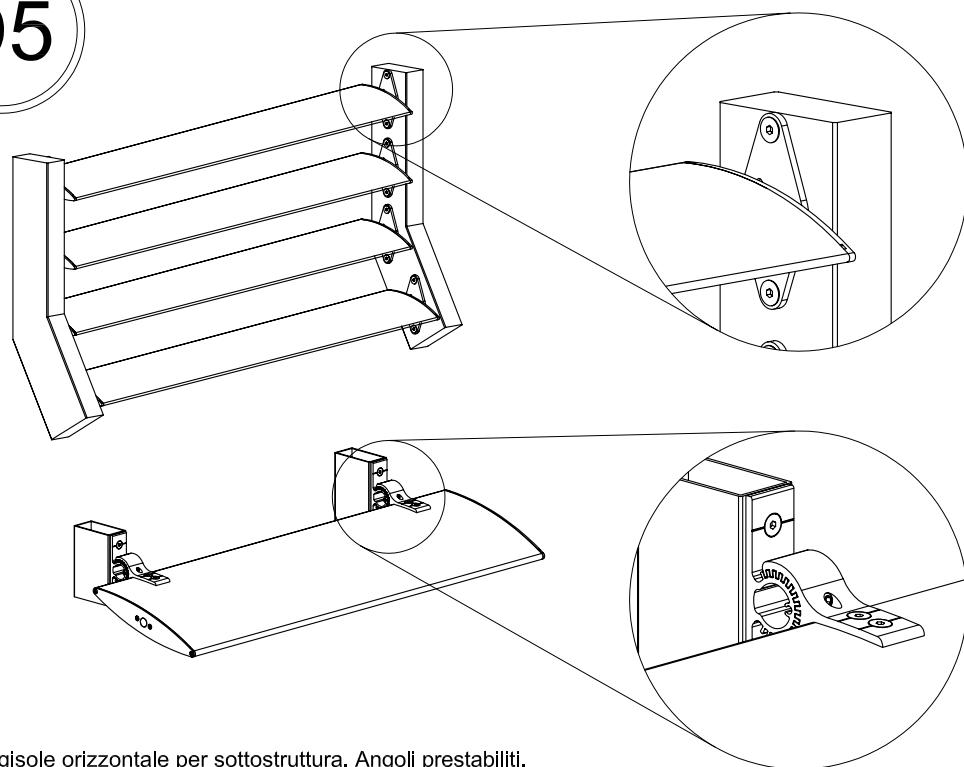
ESTERNO
OUTSIDE



x: Interasse secondo specifiche attuatore e angolo rotazione desiderato
x: Interaxis following to the actuator features and to the rotation angle required

SCALA
SCALE 1:2

D5



Frangisole orizzontale per sottostruttura. Angoli prestabiliti.
Horizontal sunblade for understructure. Pre-set orientation.

**FRANGISOLE ORIZZONTALE
SEZIONI**
**HORIZONTAL SUNBLADE
SECTIONS**

- GRUPPO D5
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

- GROUP D5
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS

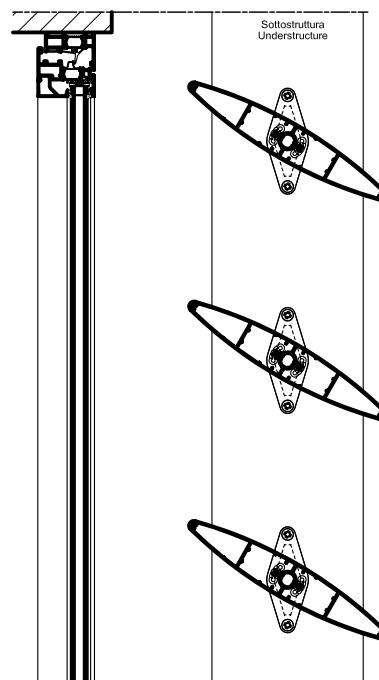
GRUPPO
GROUP
D5

TIPOLOGIA D5 - UTILIZZO SOLUTION D5 - UTILISATION

SVILUPPO IN VERTICALE VERTICAL DEVELOPMENT

Soluzione da utilizzare con una sottostruttura parallela alla facciata o finestra.

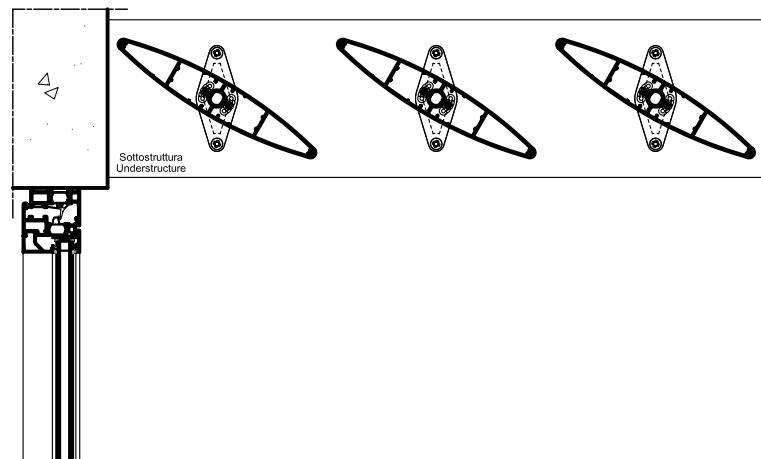
Solution to be used with an understructure which is parallel to the façade or window.



SVILUPPO IN ORIZZONTALE HORIZONTAL DEVELOPMENT

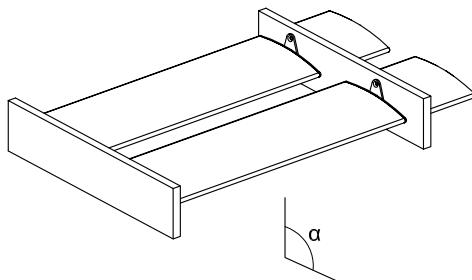
Soluzione da utilizzare con una sottostruttura perpendicolare alla facciata o finestra.

Solution to be used with an understructure which is perpendicular to the façade or window.

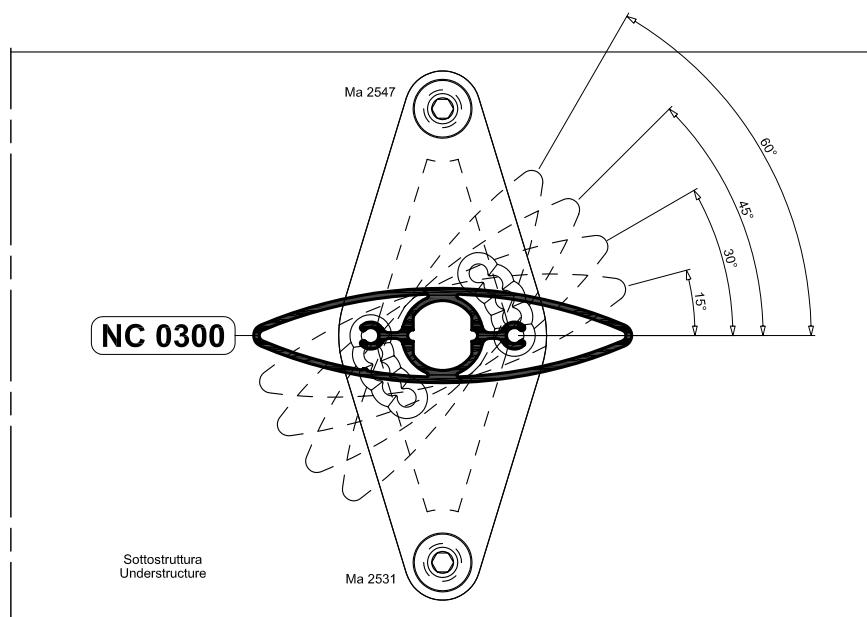
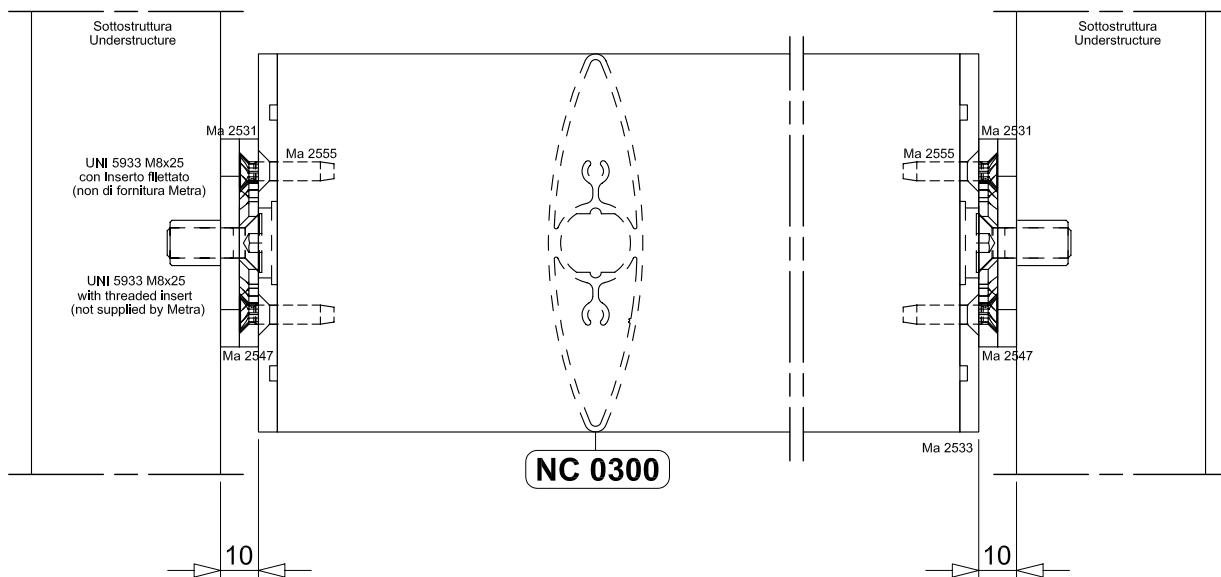


Per informazioni specifiche vedi tavole D5-02 a D5-11
For specific information refer to tables D5-02 to D5-11

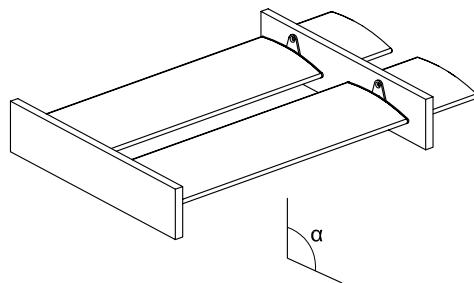
SCALA 1:2
SCALE 1:2



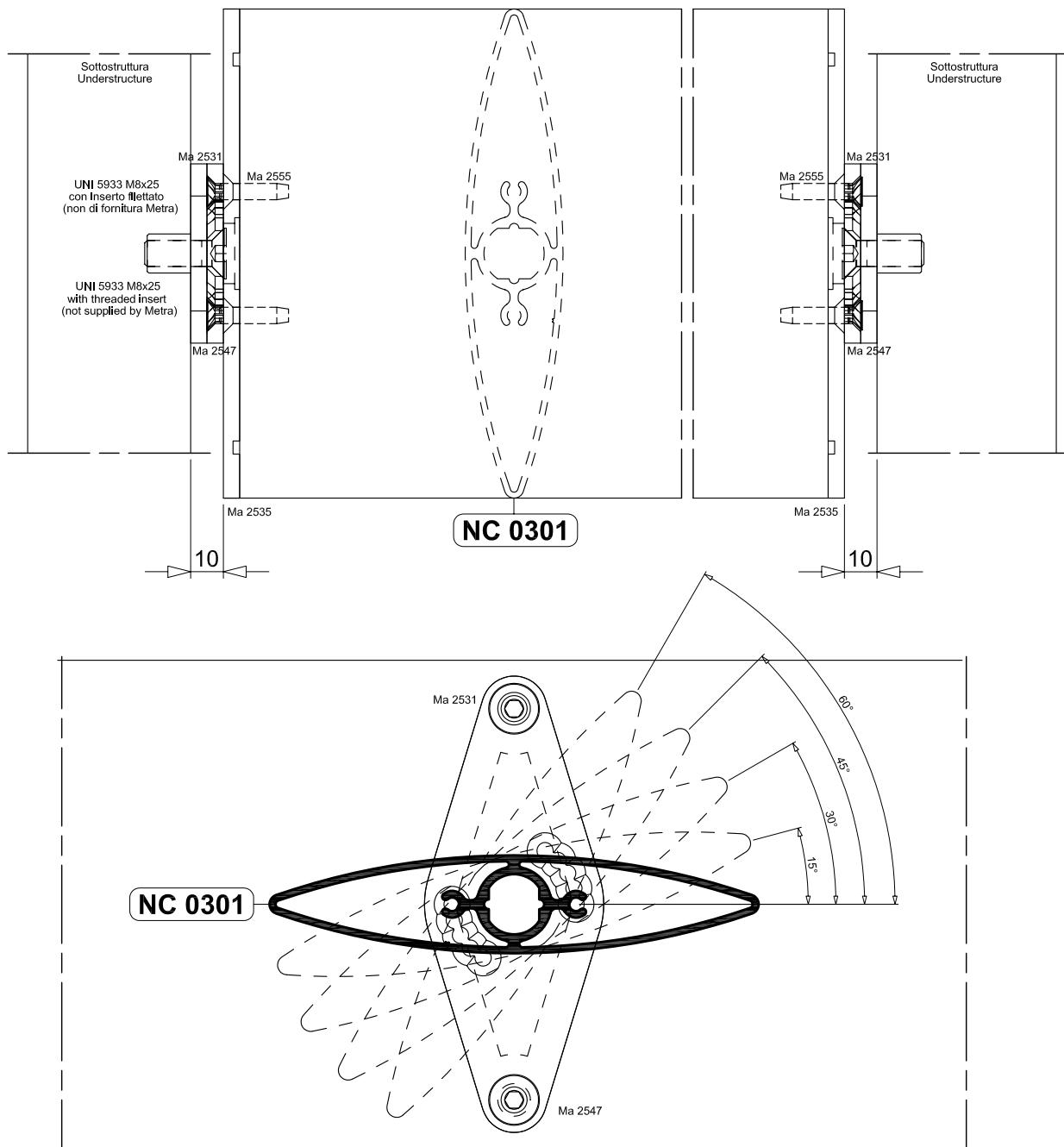
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0300
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	100 mm

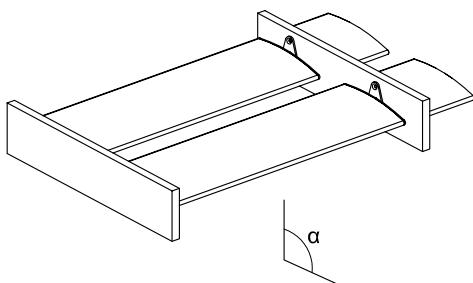


SCALA
SCALE 1:2

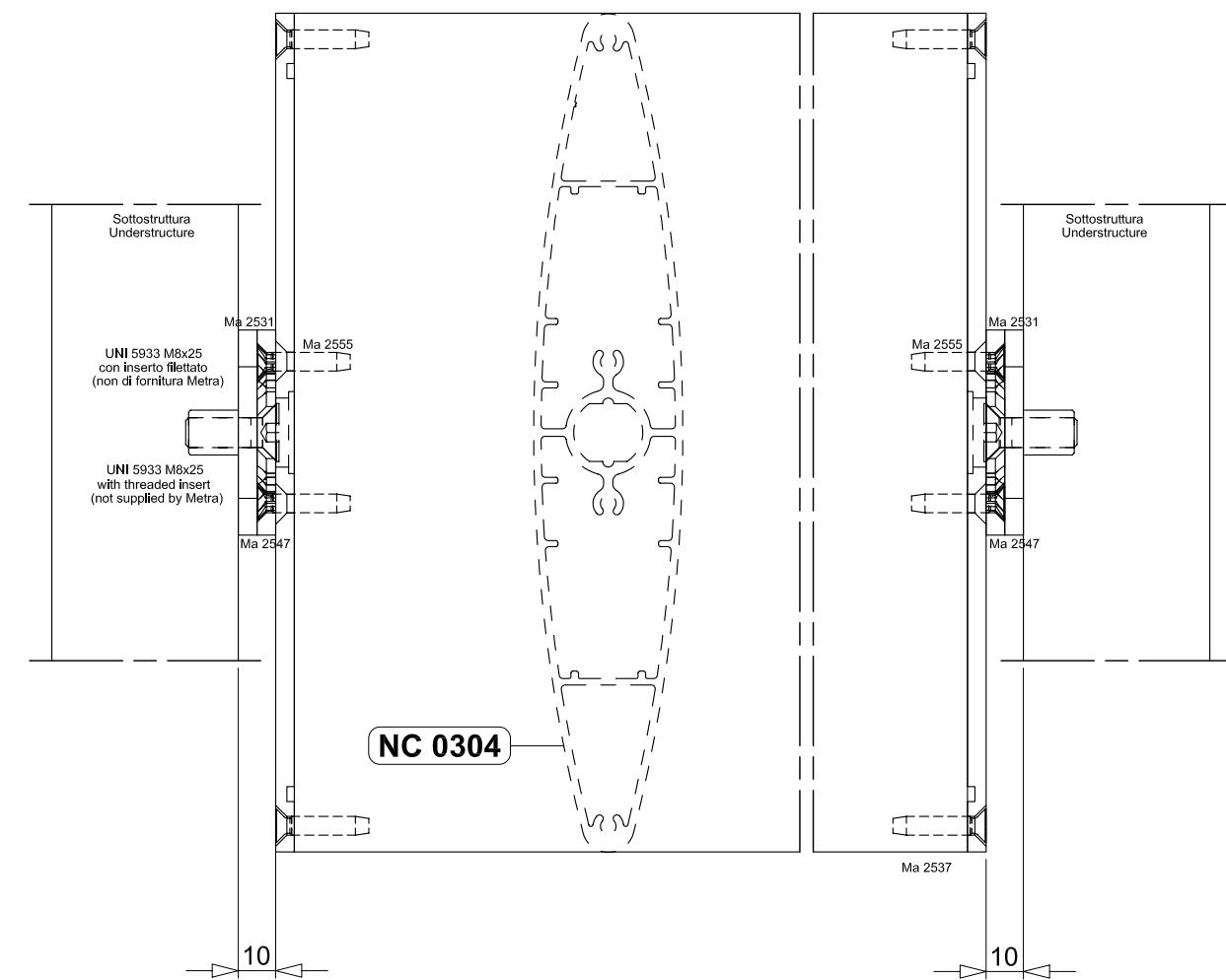


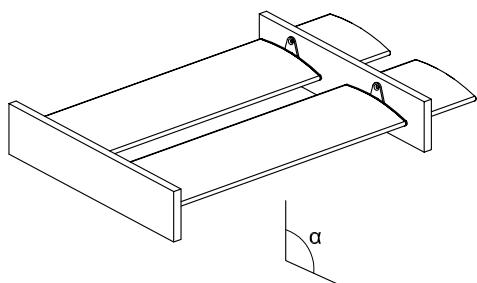
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0301
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	150 mm


 SCALA 1:2
SCALE 1:2



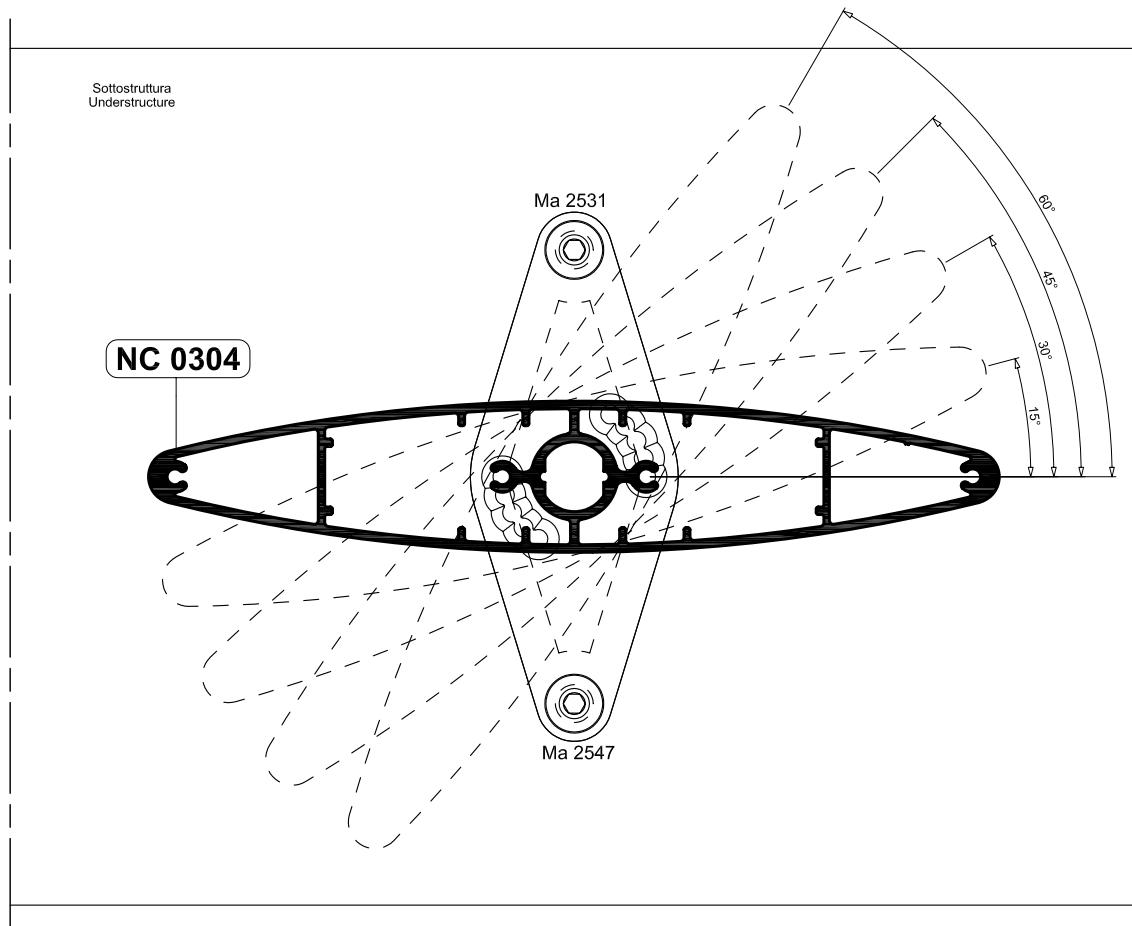
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0304	
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-		225 mm

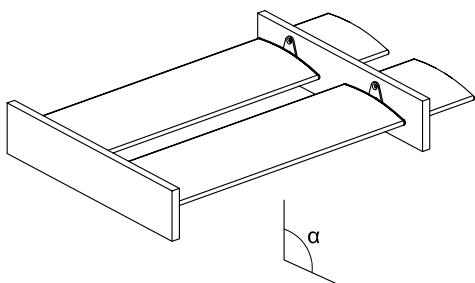

SCALA
SCALE 1:2



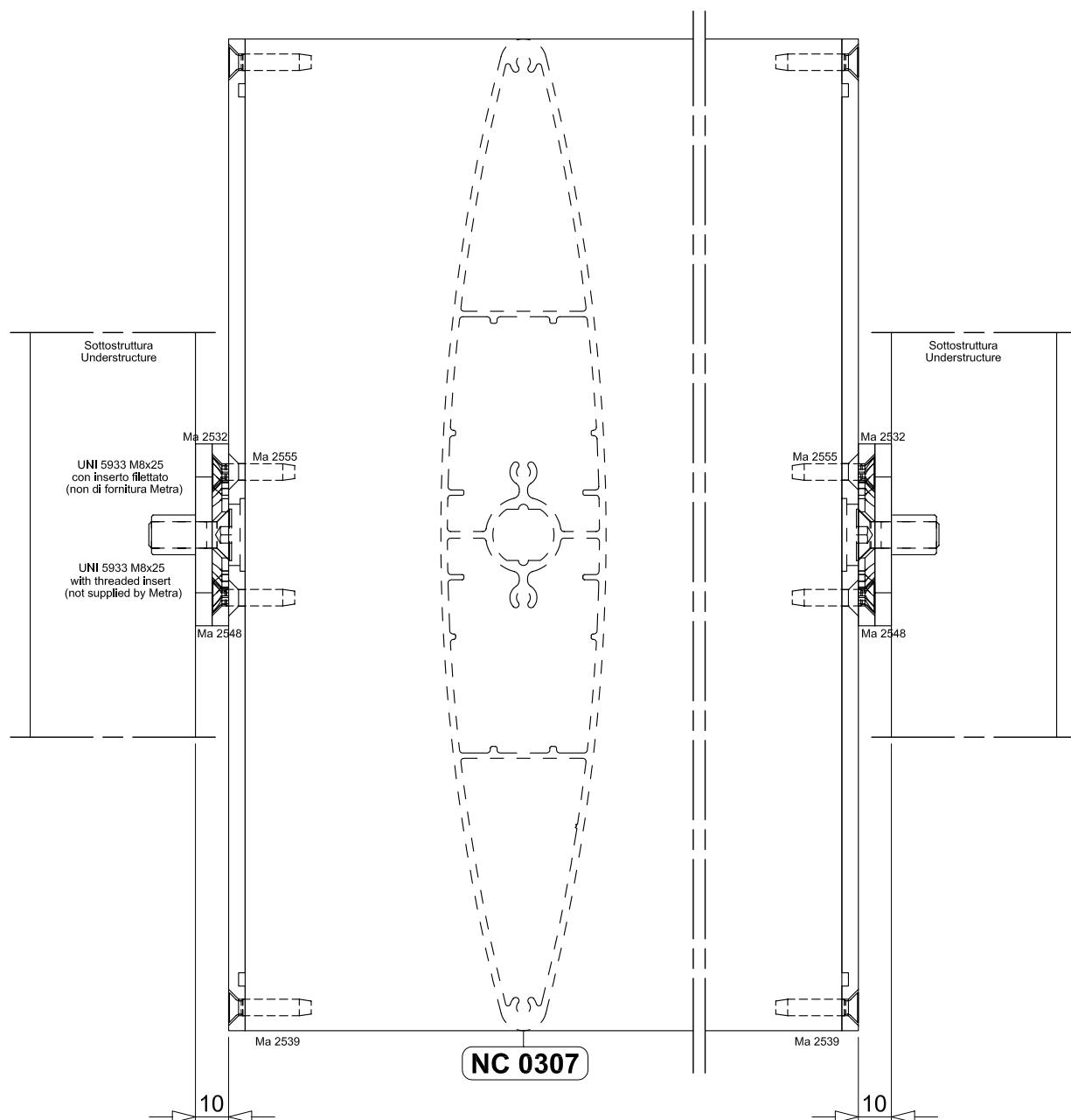
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0304
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	225 mm

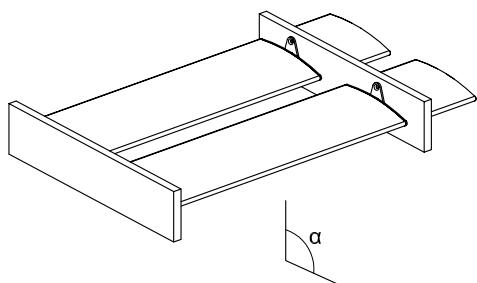
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0304
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	225 mm


 SCALA 1:2
 SCALE 1:2

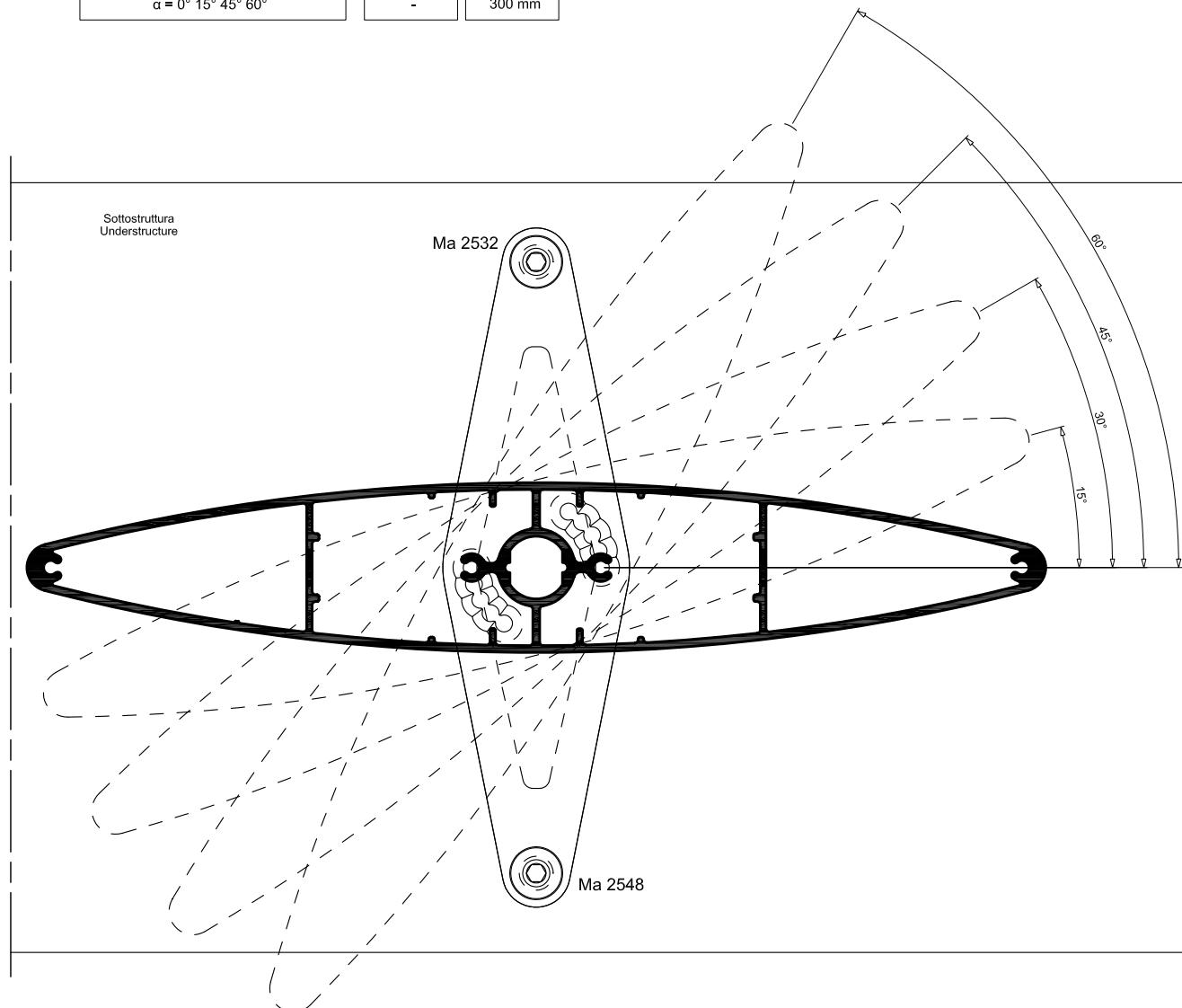


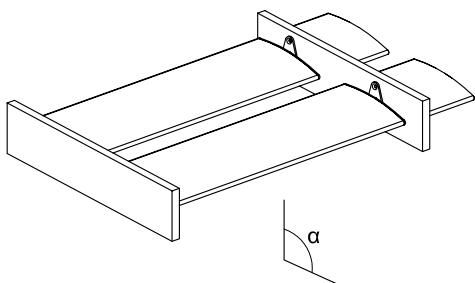
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	
MONTANTE MULLION	LAMELLA BLADE
-	NC 0307
-	300 mm


 SCALA 1:2
 SCALE 1:2

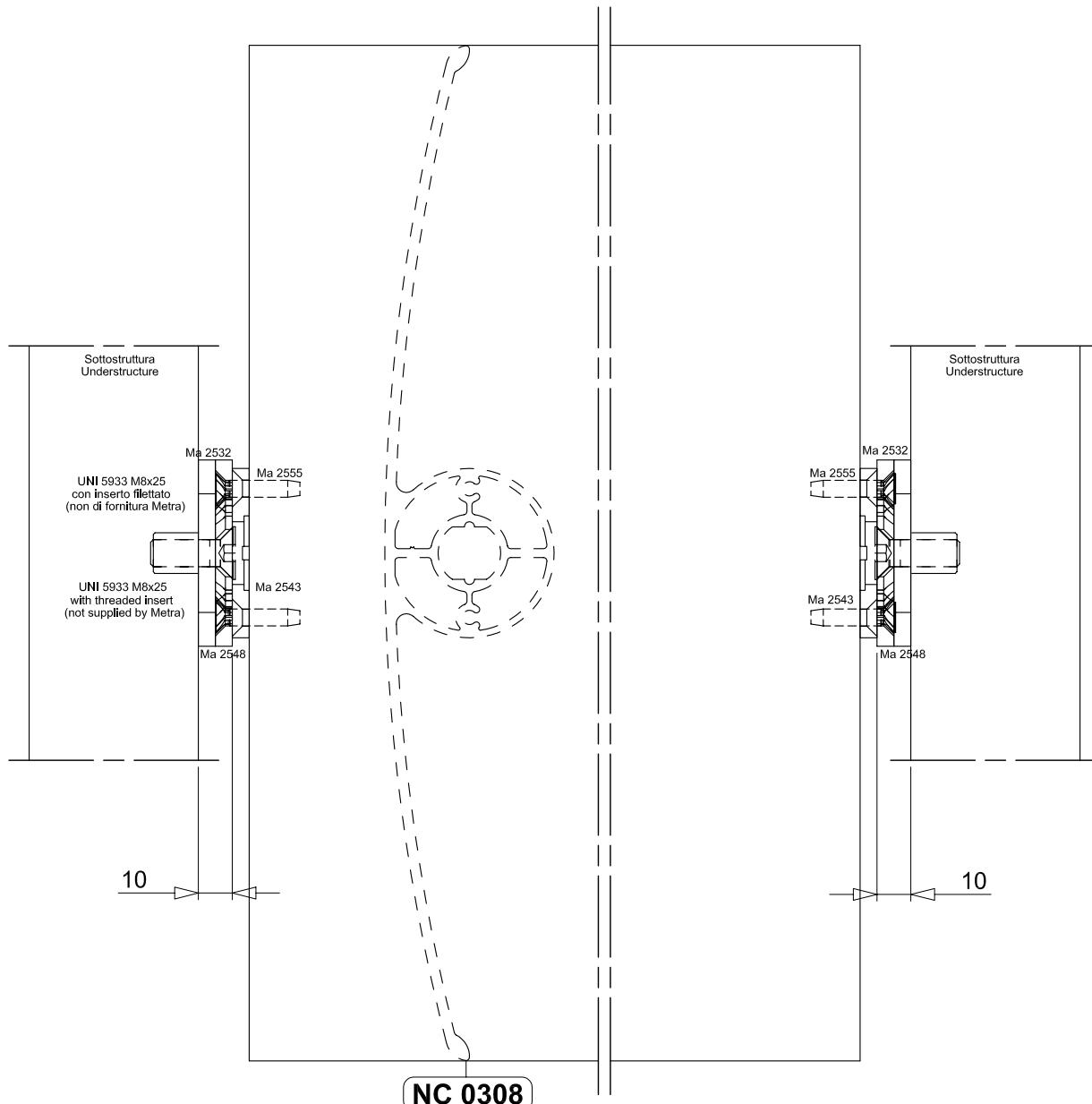


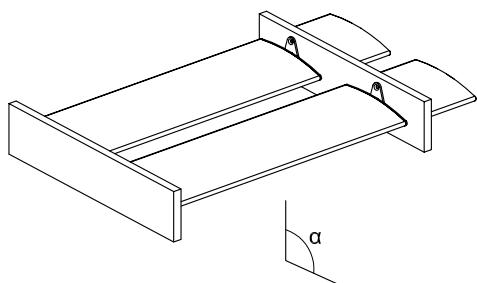
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0307
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	300 mm


 SCALA 1:2
SCALE 1:2

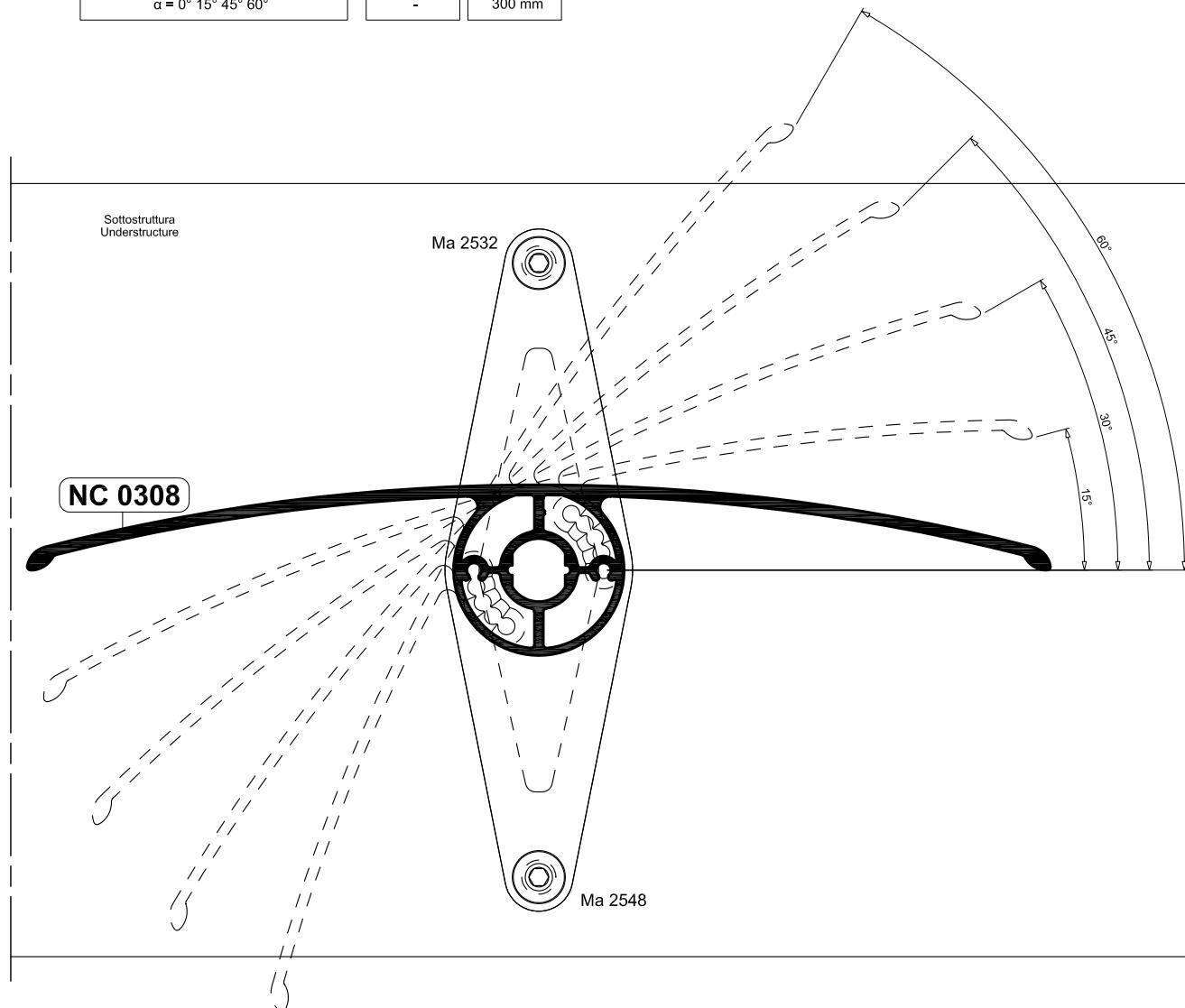


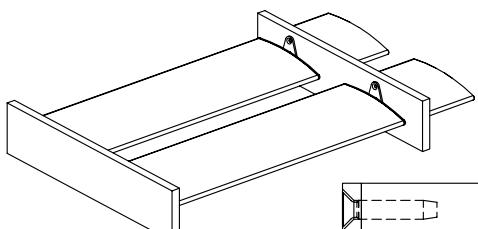
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0308
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	300 mm


 SCALA 1:2
SCALE 1:2



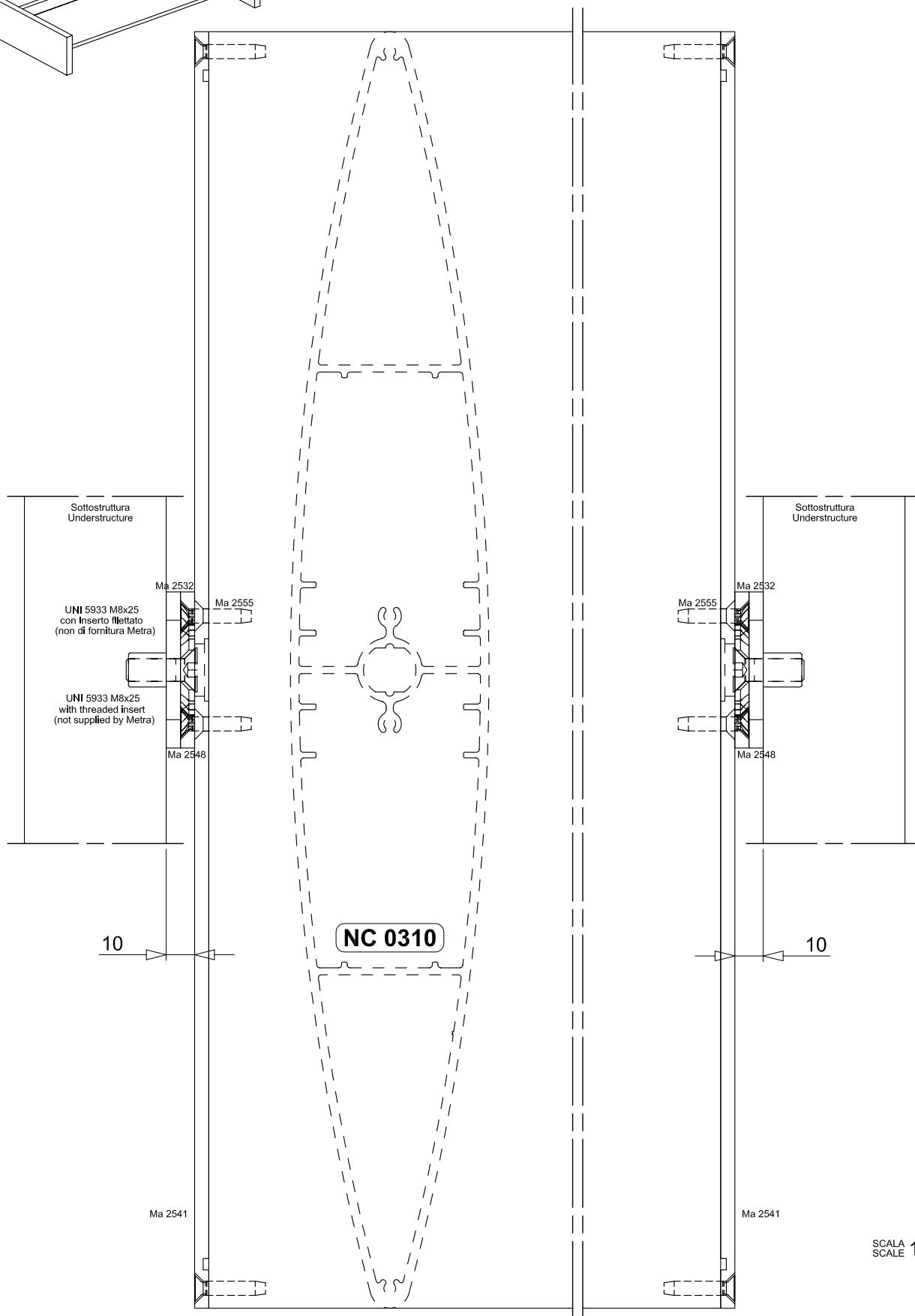
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0308
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	300 mm

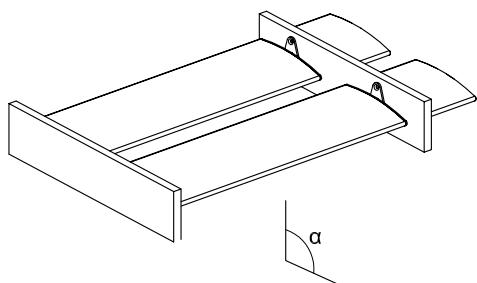

 SCALA 1:2
SCALE 1:2



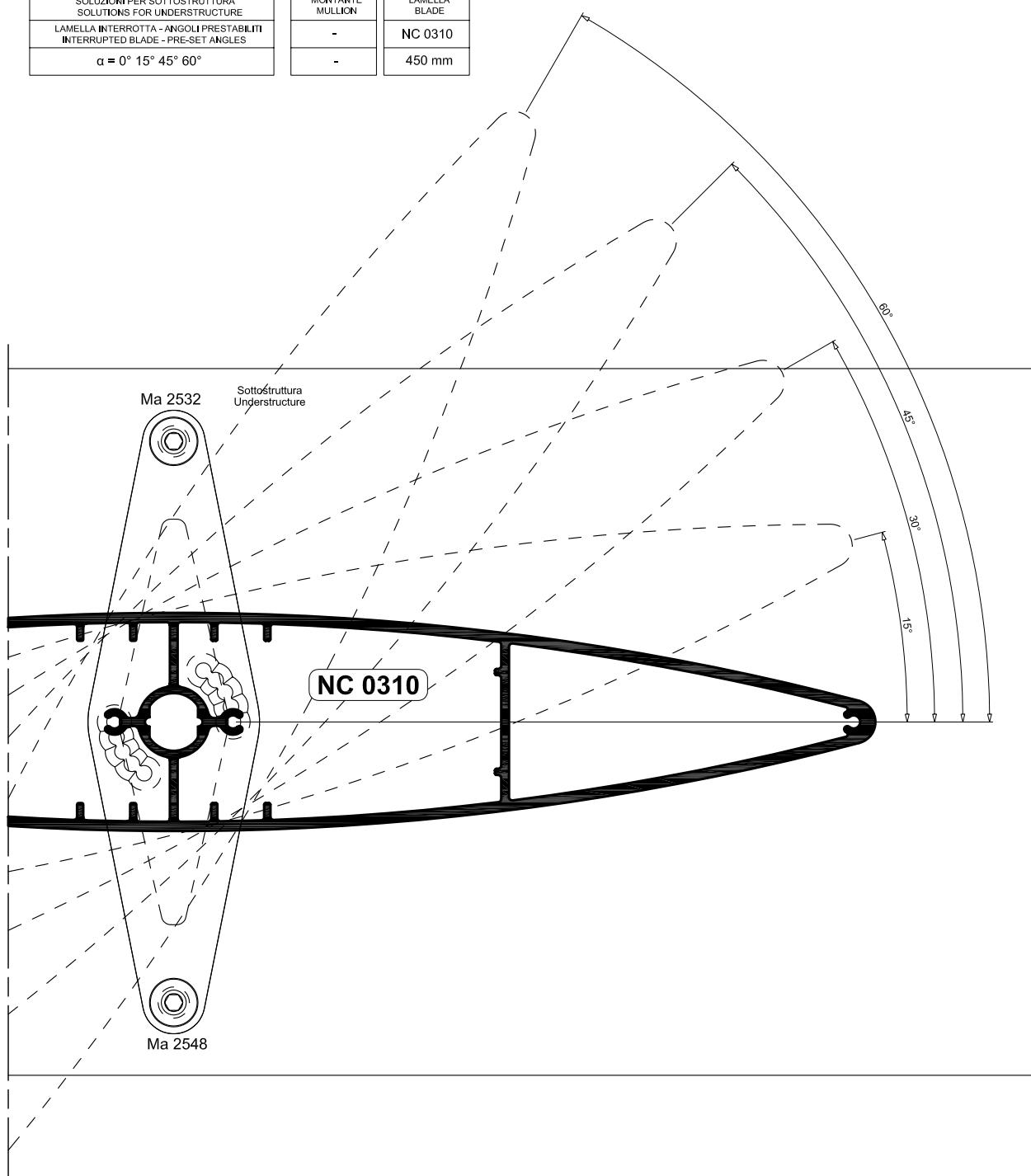
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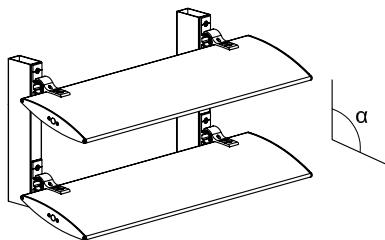
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	
MONTANTE MULLION	LAMELLA BLADE
-	NC 0310
-	300 mm





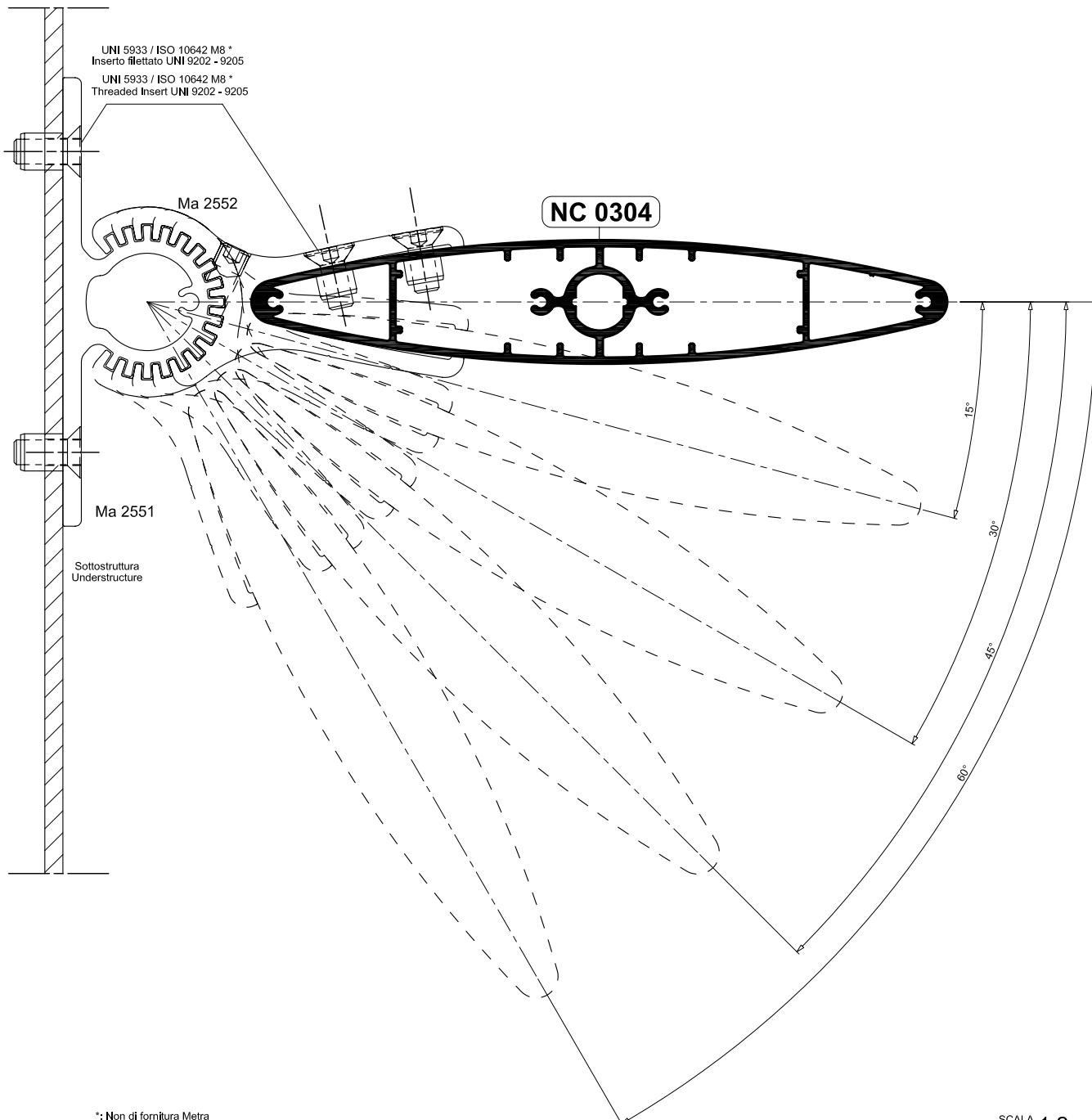
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0310
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-	450 mm

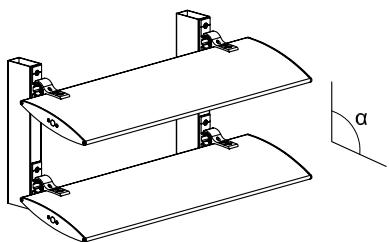

 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
LAMELLA CONTINUA - ANGOLI PRESTABILITI CONTINUOUS BLADE - PRE-SET ANGLES	
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$	-
	-

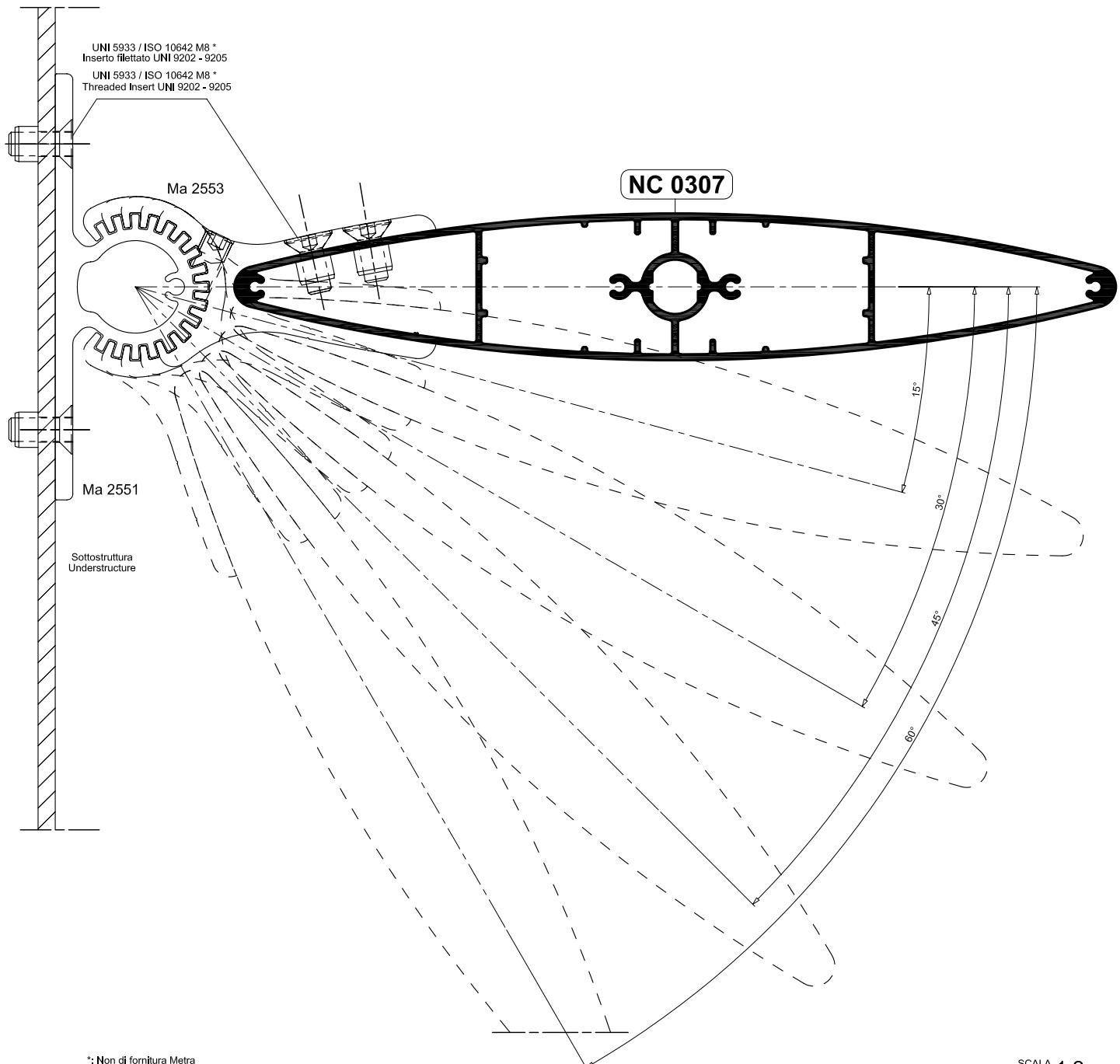
MONTANTE MULLION	LAMELLA BLADE
-	NC 0304
-	225 mm





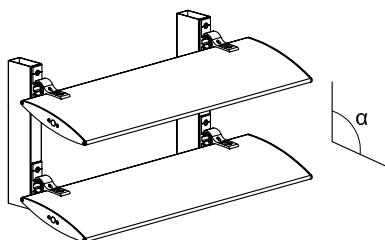
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE LAMELLA CONTINUA - ANGOLI PRESTABILITI CONTINUOUS BLADE - PRE-SET ANGLES
$\alpha = 0^\circ 15^\circ 45^\circ 60^\circ$

MONTANTE MULLION	LAMELLA BLADE
-	NC 0307
-	300 mm

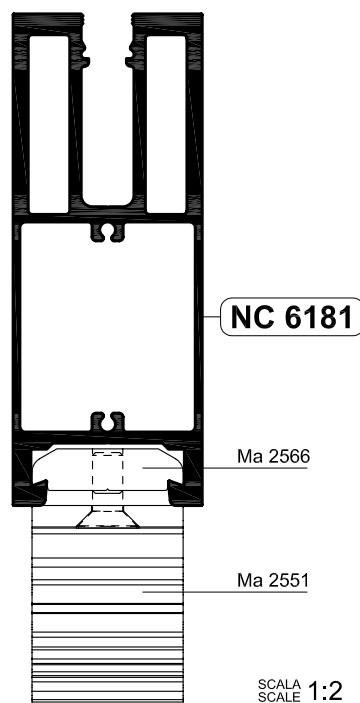
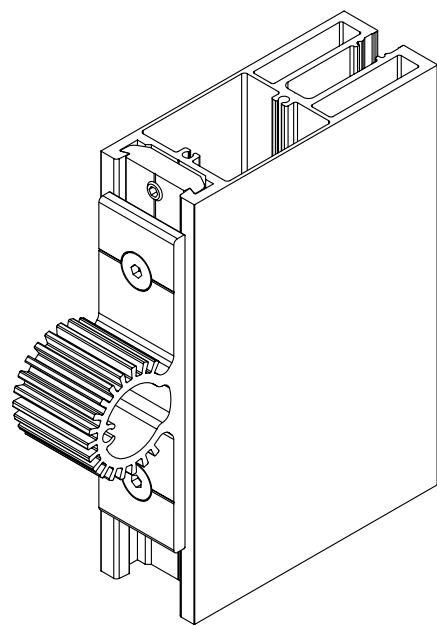
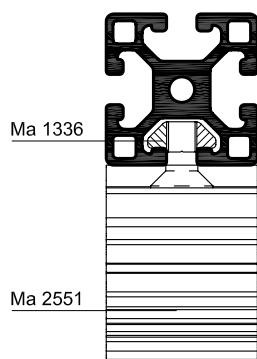
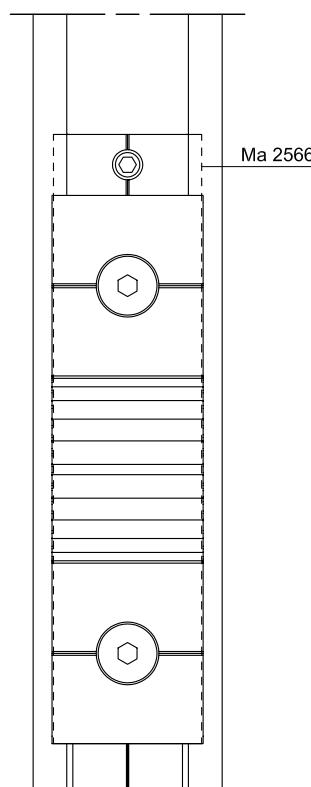
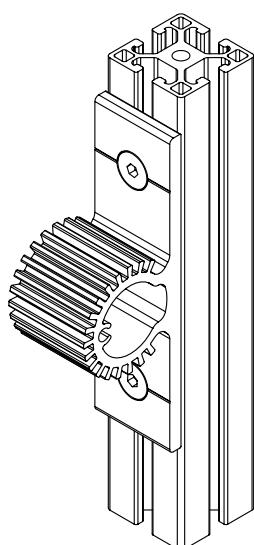
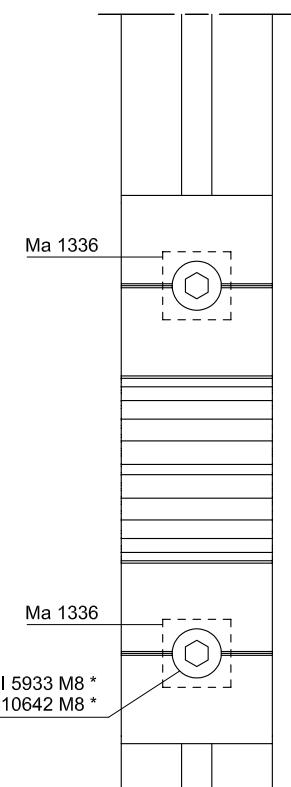


*: Non di fornitura Metra
*: Not supplied by Metra

SCALA SCALE 1:2

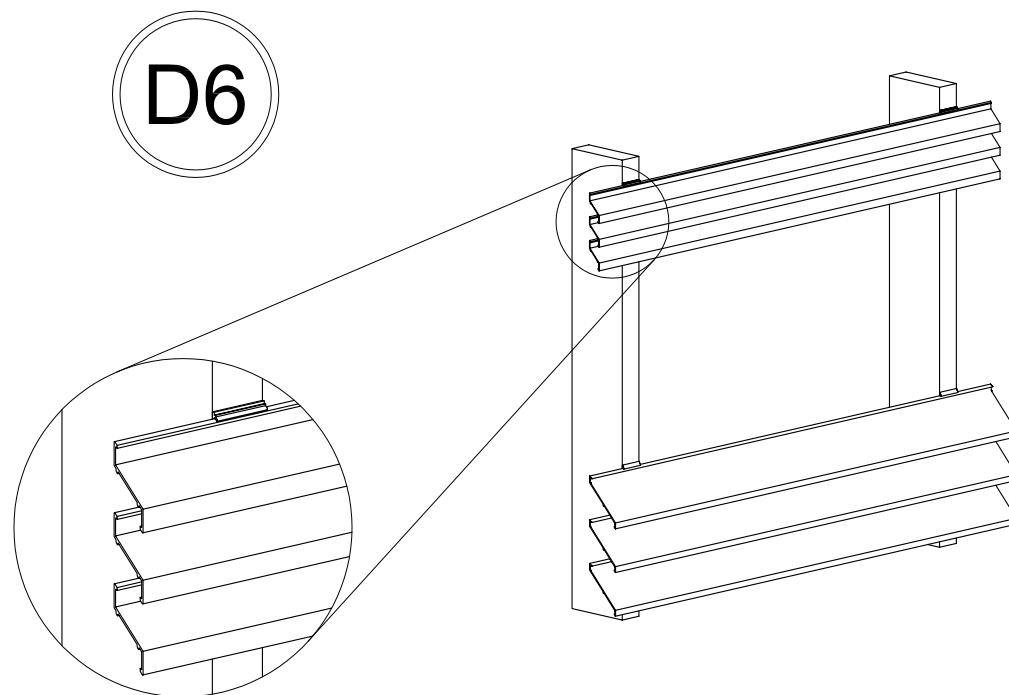


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
FISSAGGIO AI MONTANTI MULLIONS FITTING	
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	
MONTANTE MULLION	R 7160
40 mm	NC 6181
50 mm	



* Non di fornitura Metra
* Not supplied by Metra

SCALA
SCALE 1:2

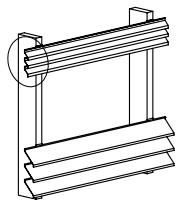


Frangisole orizzontale fisso per sottostruttura.
Horizontal fixed sunblade for understructure.

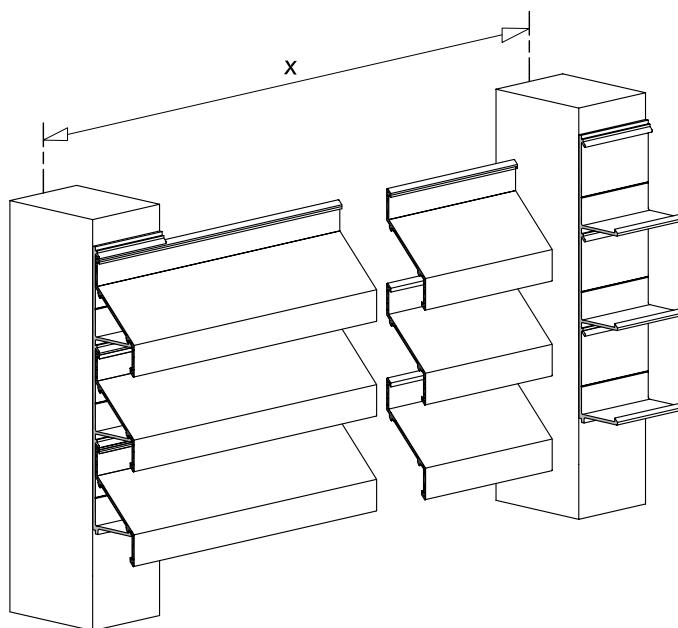
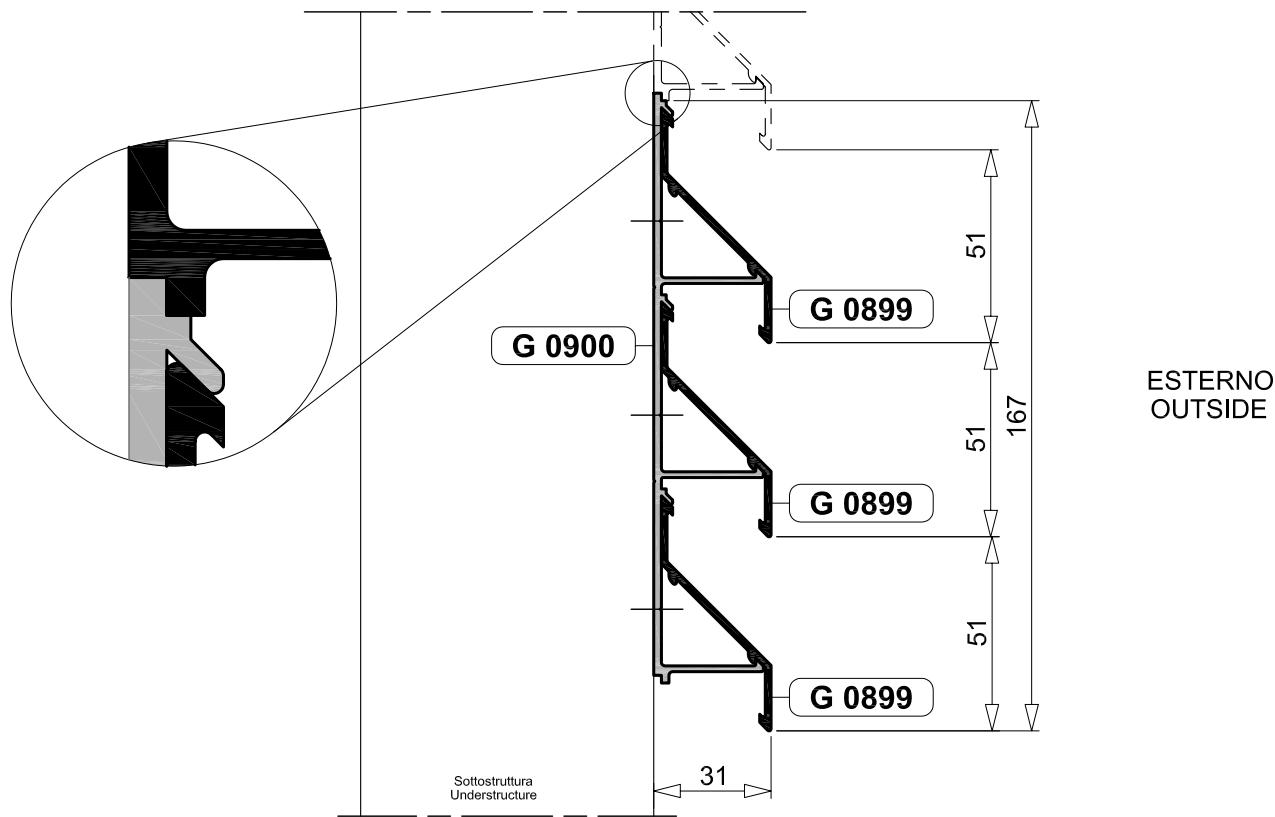
**FRANGISOLE ORIZZONTALE
SEZIONI**
**HORIZONTAL SUNBLADE
SECTIONS**

- GRUPPO D6
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

- GROUP D6
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS

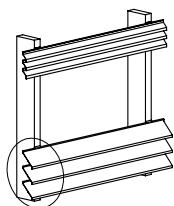


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
GRIGLIE DI AERAZIONE AERATION GRILLS	G 0900 29 mm	G 0899 29 mm

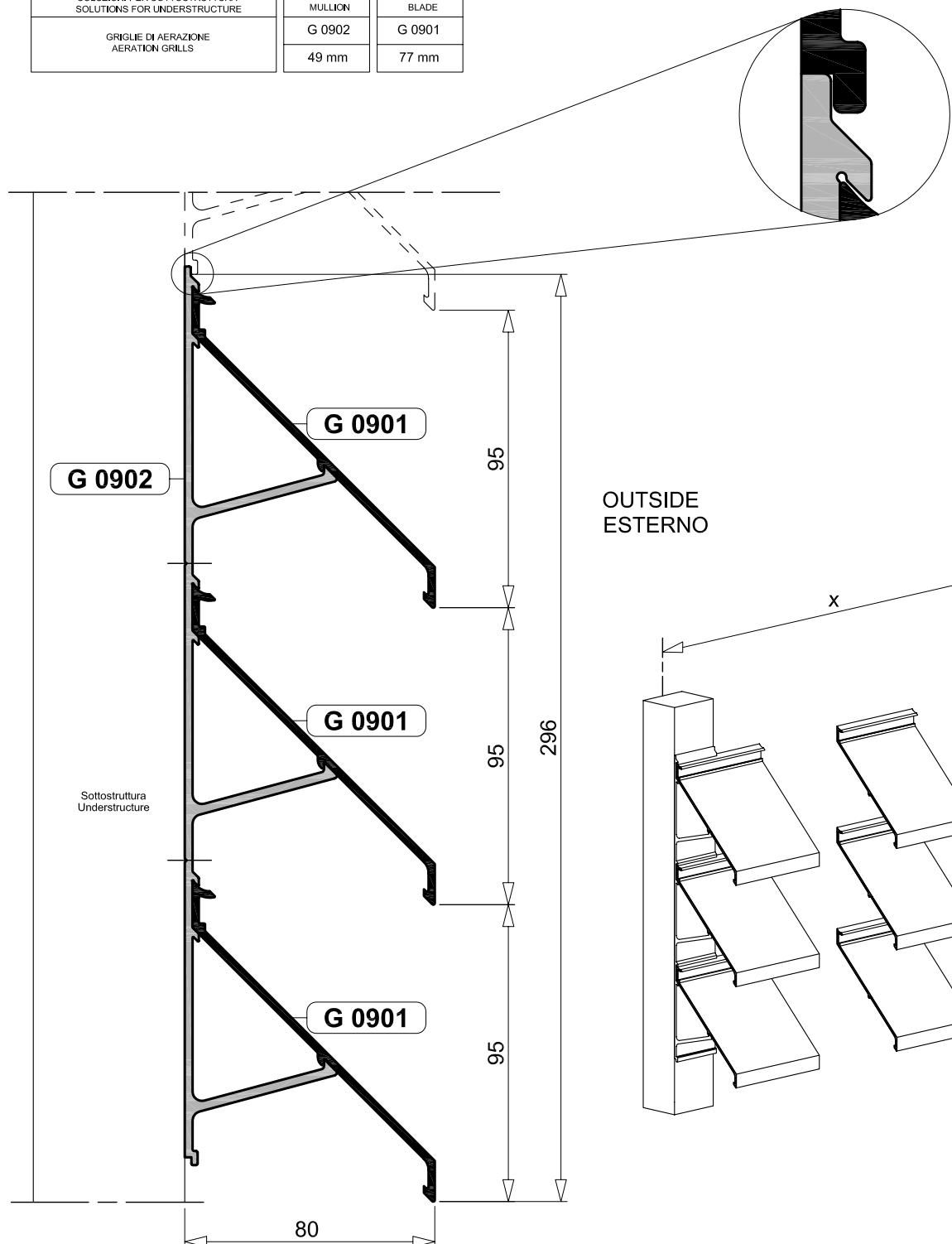


x: interasse montanti secondo i requisiti statici
 x: mullion interaxis as per static requirements

SCALA 1:2
 SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
GRIGLIE DI AERAZIONE AERATION GRILLS	G 0902	G 0901
	49 mm	77 mm



x: interasse montanti secondo i requisiti statici
x: mullion interaxis as per static requirements

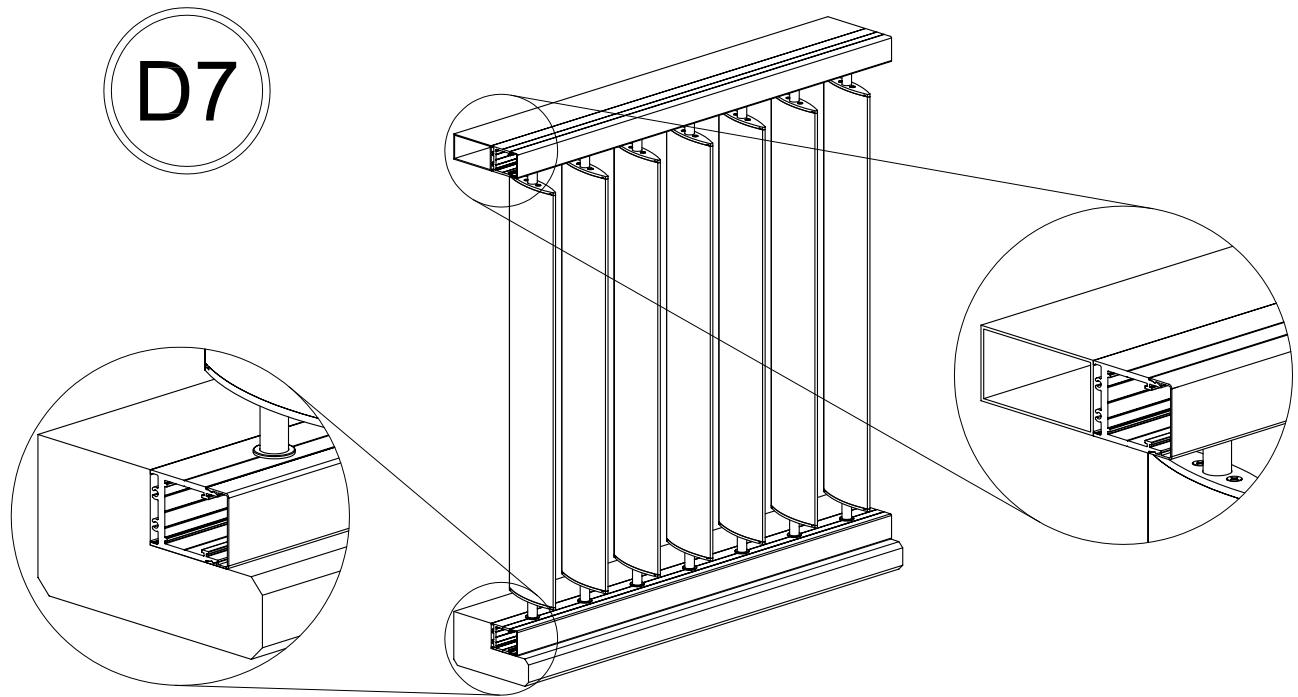
SCALA
SCALE 1:2

**FRANGISOLE VERTICALE
SEZIONI**
**VERTICAL SUNBLADE
SECTIONS**

- GRUPPI D7 - D8
- SEZIONI PRINCIPALI IN SCALA 1 : 2

- GROUPS D7 - D8
- MAIN SECTIONS SCALE 1 : 2

SEZIONI VERTICALI
VERTICAL SECTIONS

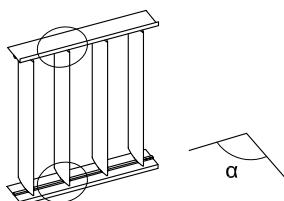


Frangisole verticale. Angoli prestabiliti e variabili. Collegabile frontal e lateralmente alla muratura ed alle sottostrutture in acciaio.
Vertical sunblade. Pre-set and variable orientation. Can be fixed by front an lateral application to a steel understructure and to the wall.

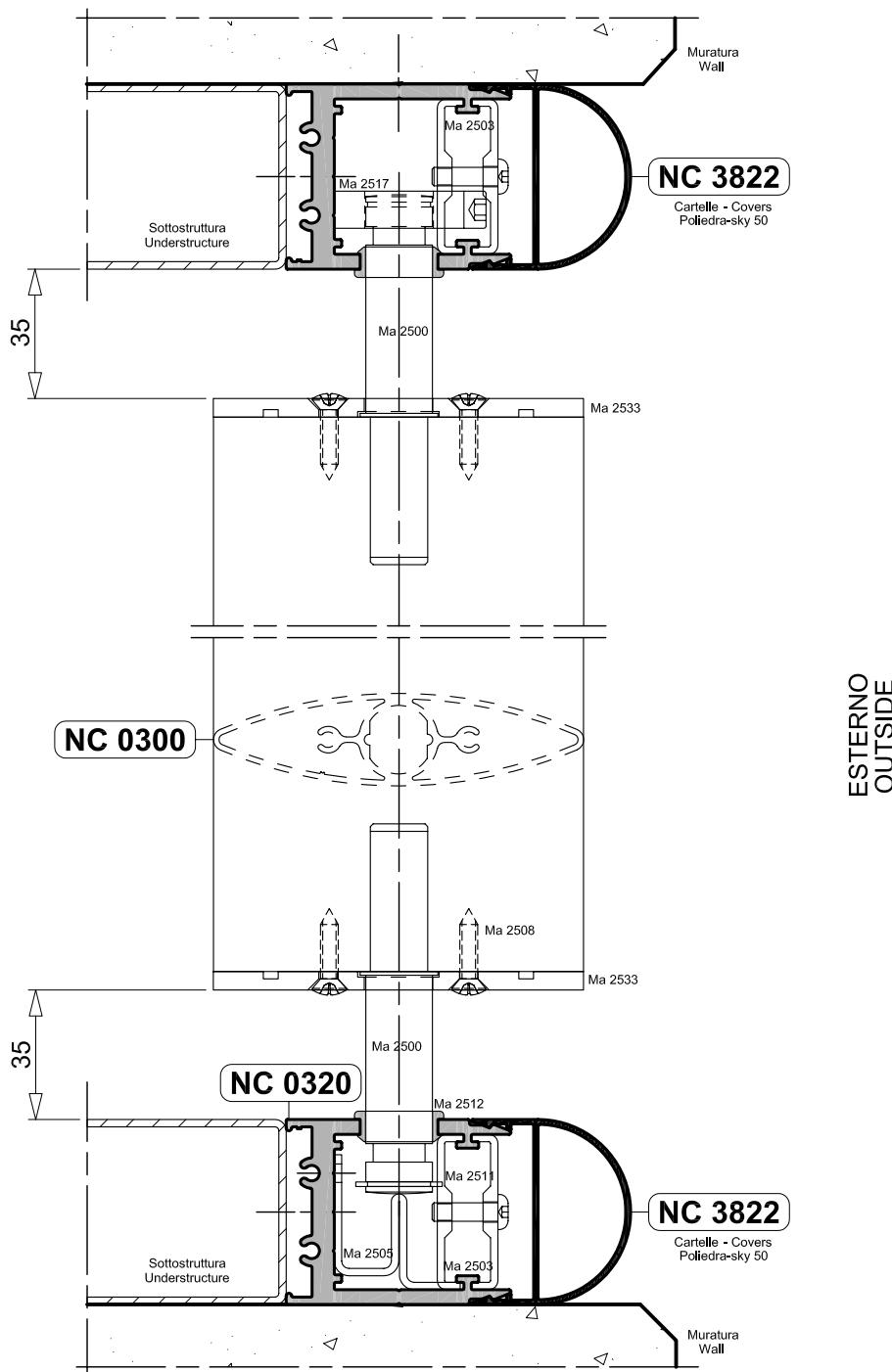
FRANGISOLE VERTICALE SEZIONI VERTICAL SUNBLADE SECTIONS

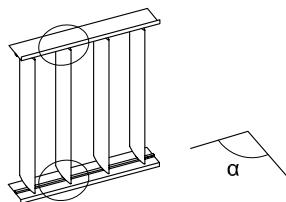
- GRUPPO D7
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

- GROUP D7
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS



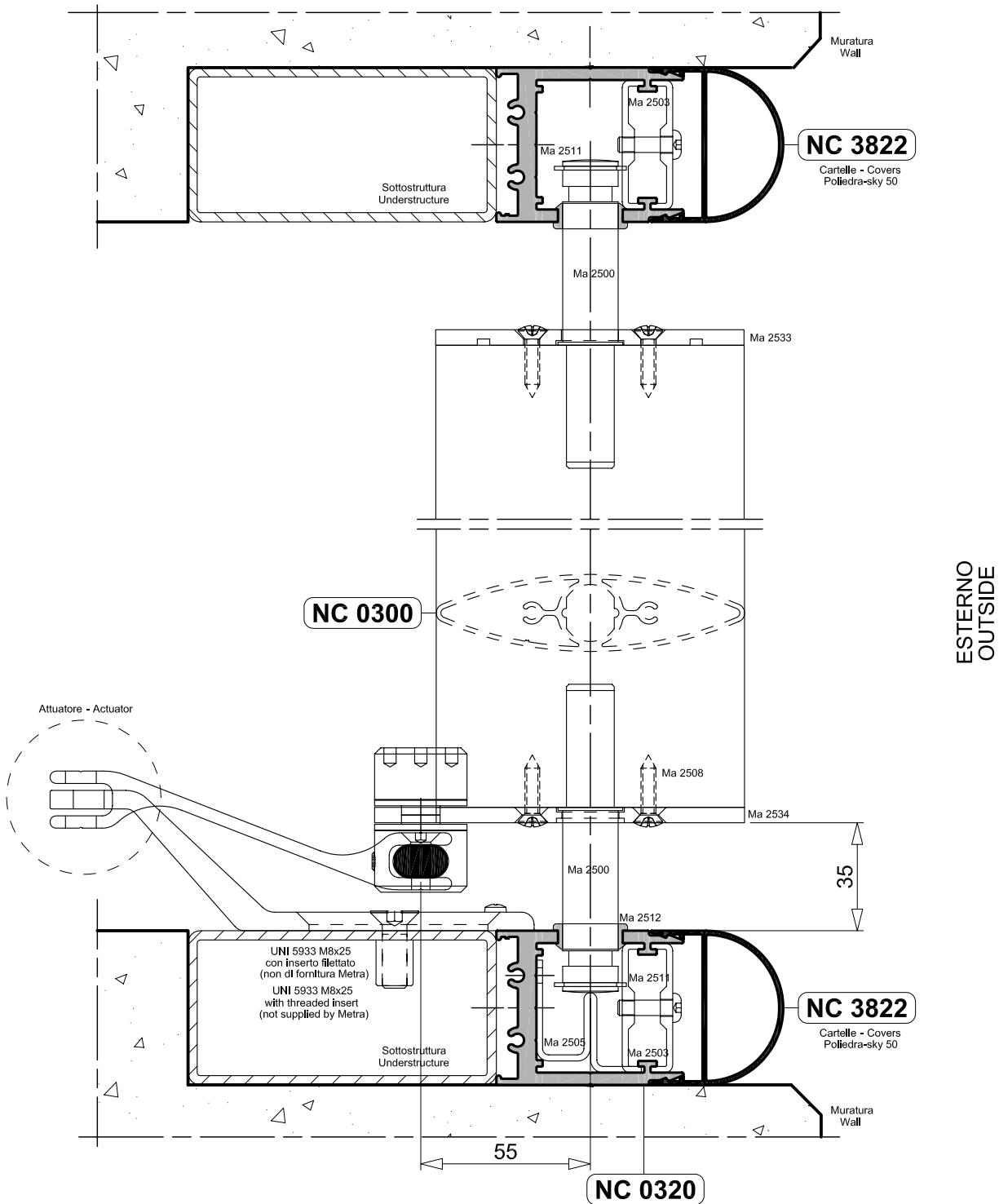
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLI PRESTABILITI SINGLE MULLION - PRE-SET ANGLES		NC 0320	NC 0300
		70 mm	100 mm
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$			

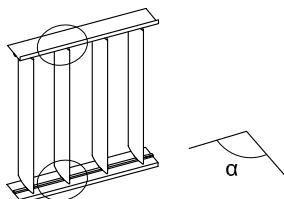

 SCALA 1:2
SCALE 1:2



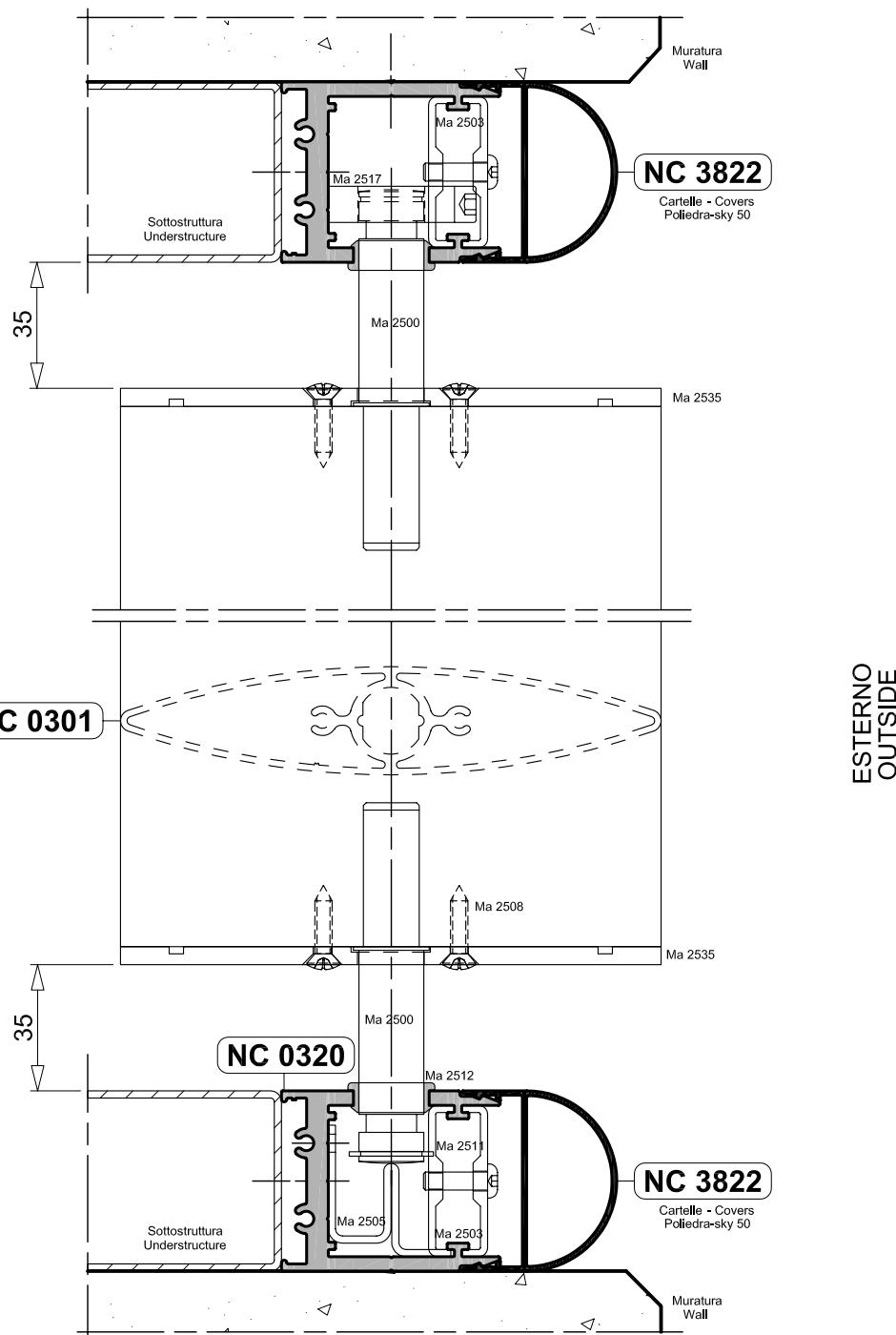
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO ANGOLO VARIABILE A COMANDO SINGLE MULLION CONTROLLED VARIABLE ANGLE		NC 0320	NC 0300

70 mm 100 mm

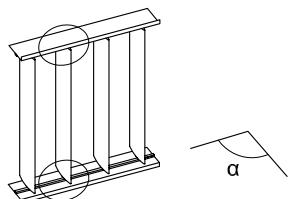

 SCALA
SCALE 1:2



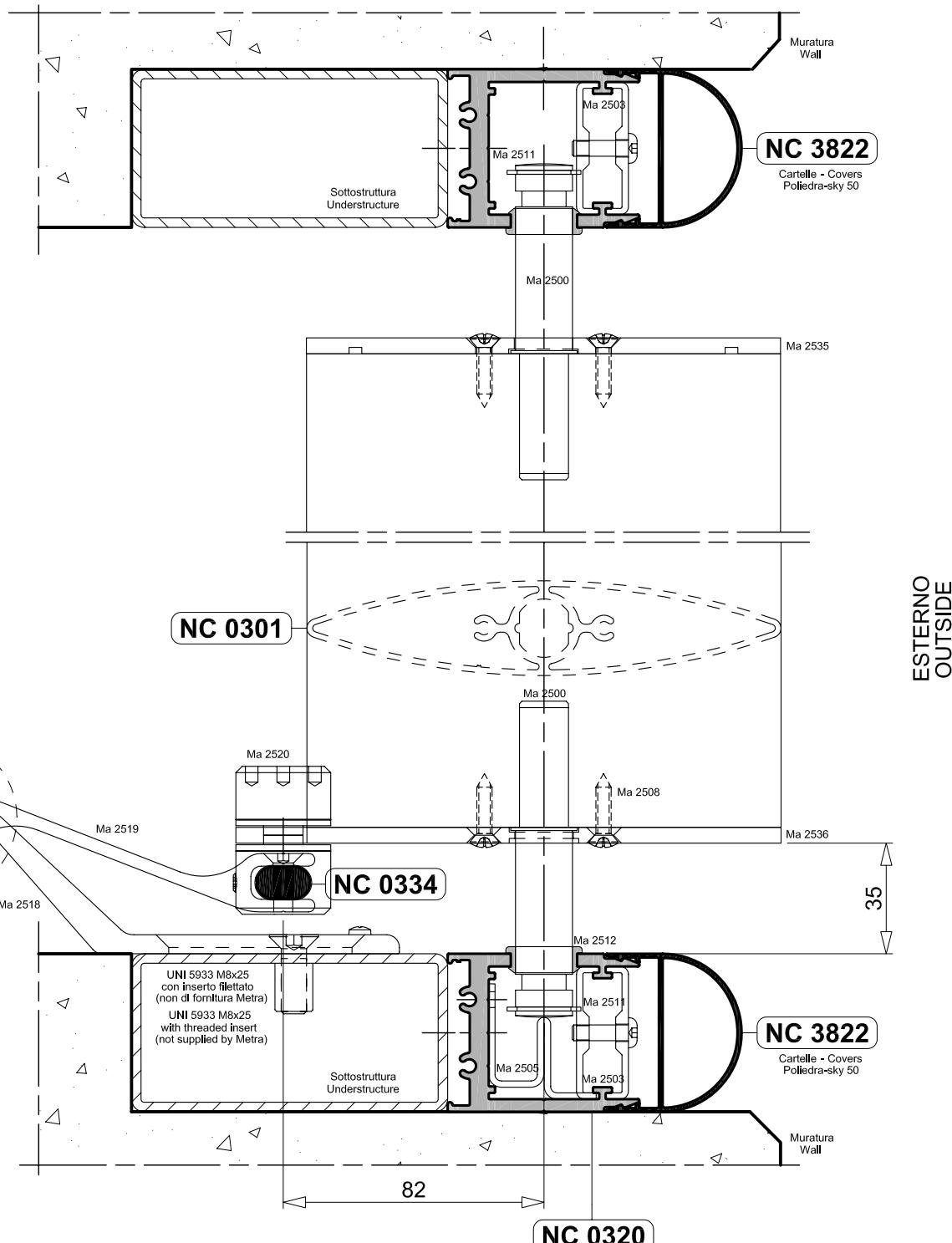
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO - ANGOLI PRESTABILITI SINGLE MULLION - PRE-SET ANGLES	NC 0320	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	70 mm	150 mm

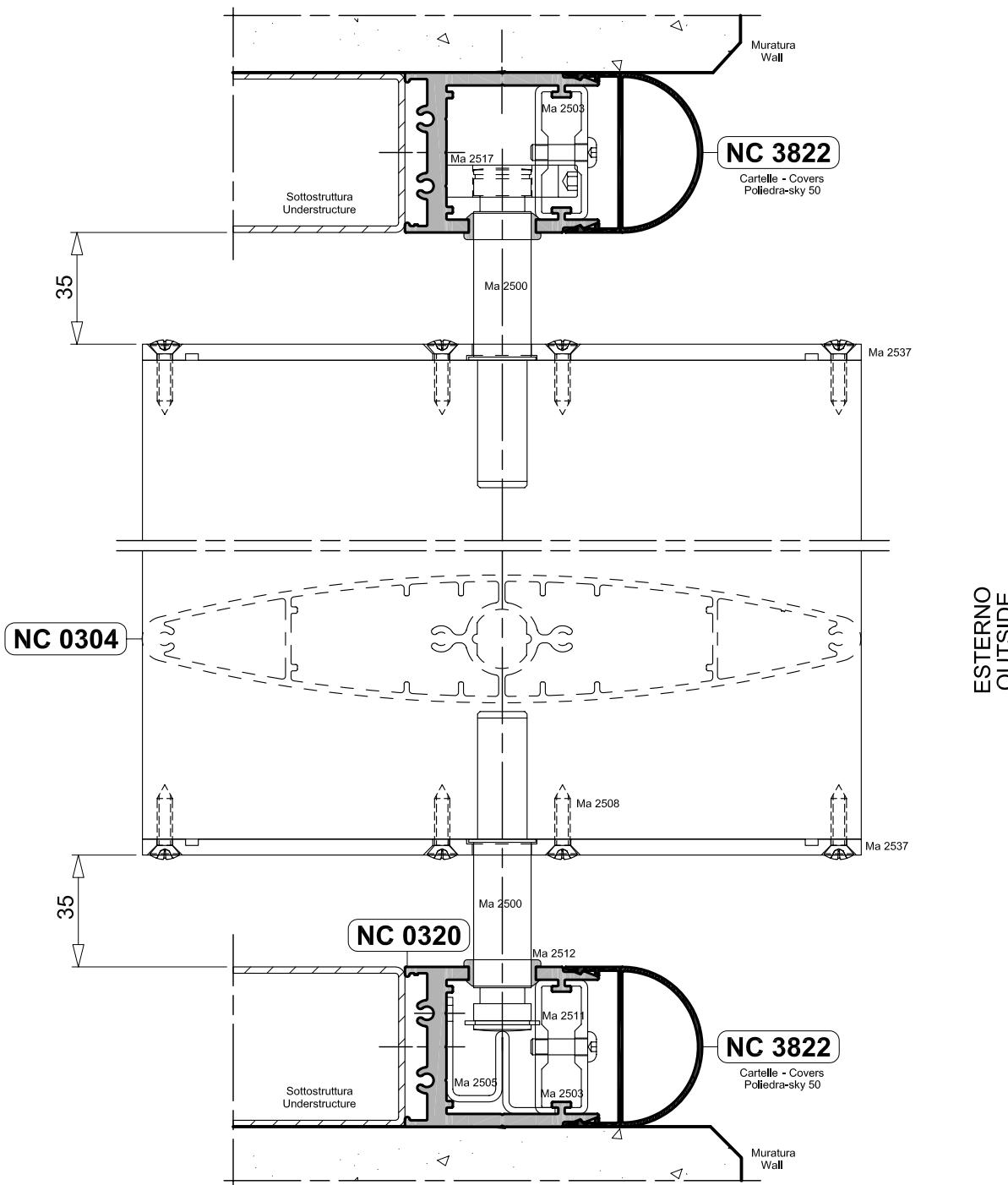
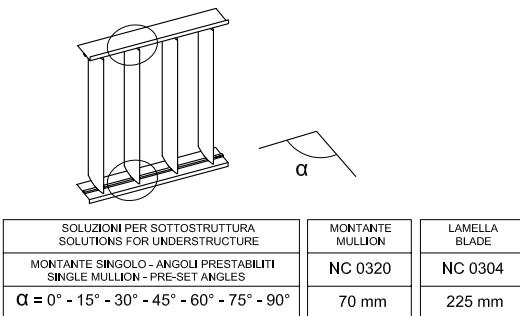


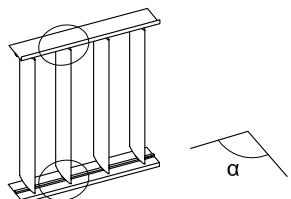
SCALA
SCALE 1:2



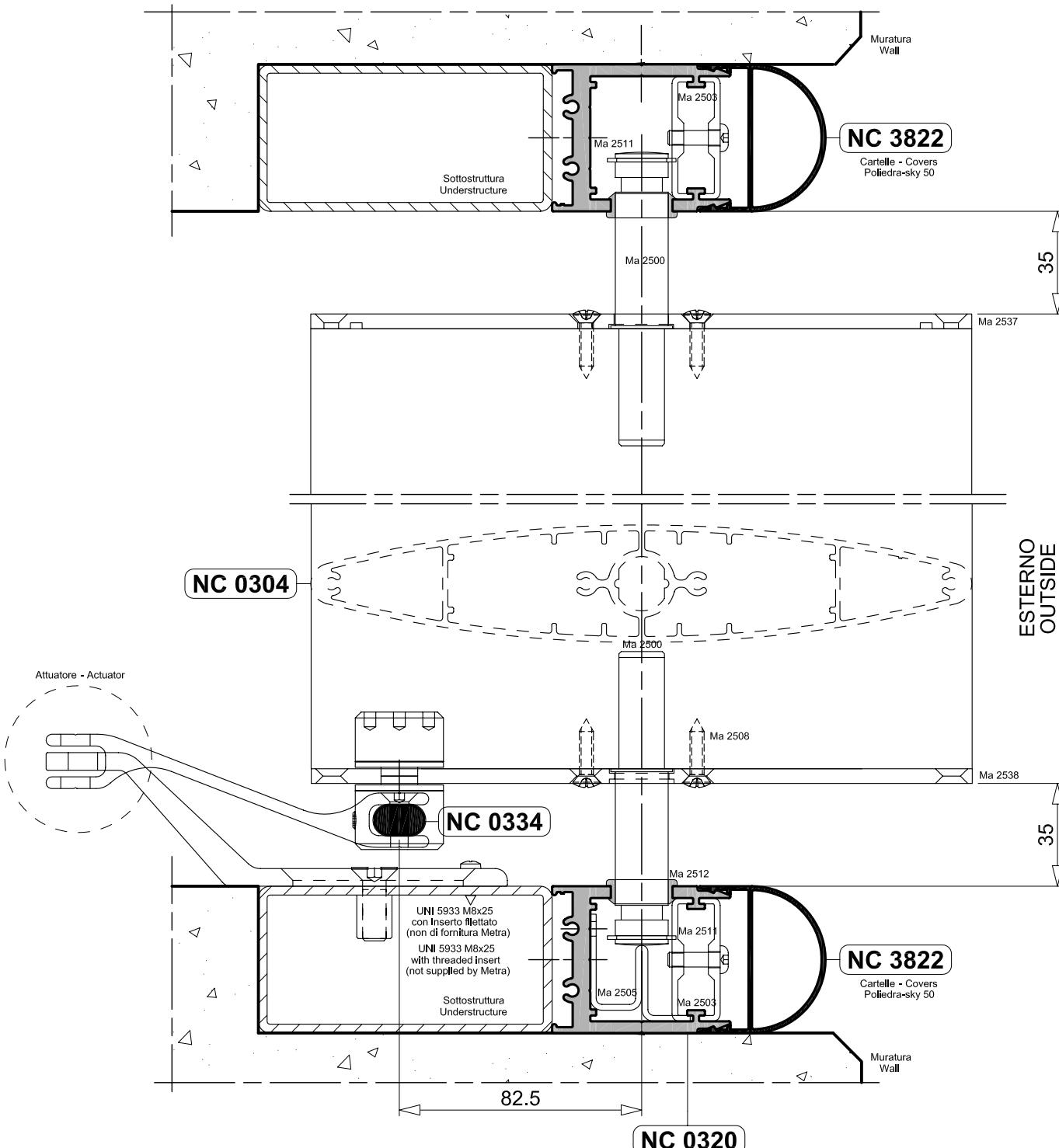
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO ANGOLO VARIABILE A COMANDO SINGLE MULLION CONTROLLED VARIABLE ANGLE	NC 0320	NC 0301	70 mm 150 mm

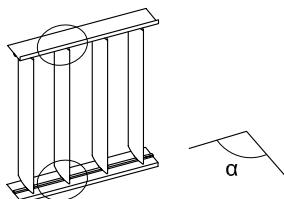

 SCALA
SCALE 1:2


 SCALA 1:2
SCALE 1:2

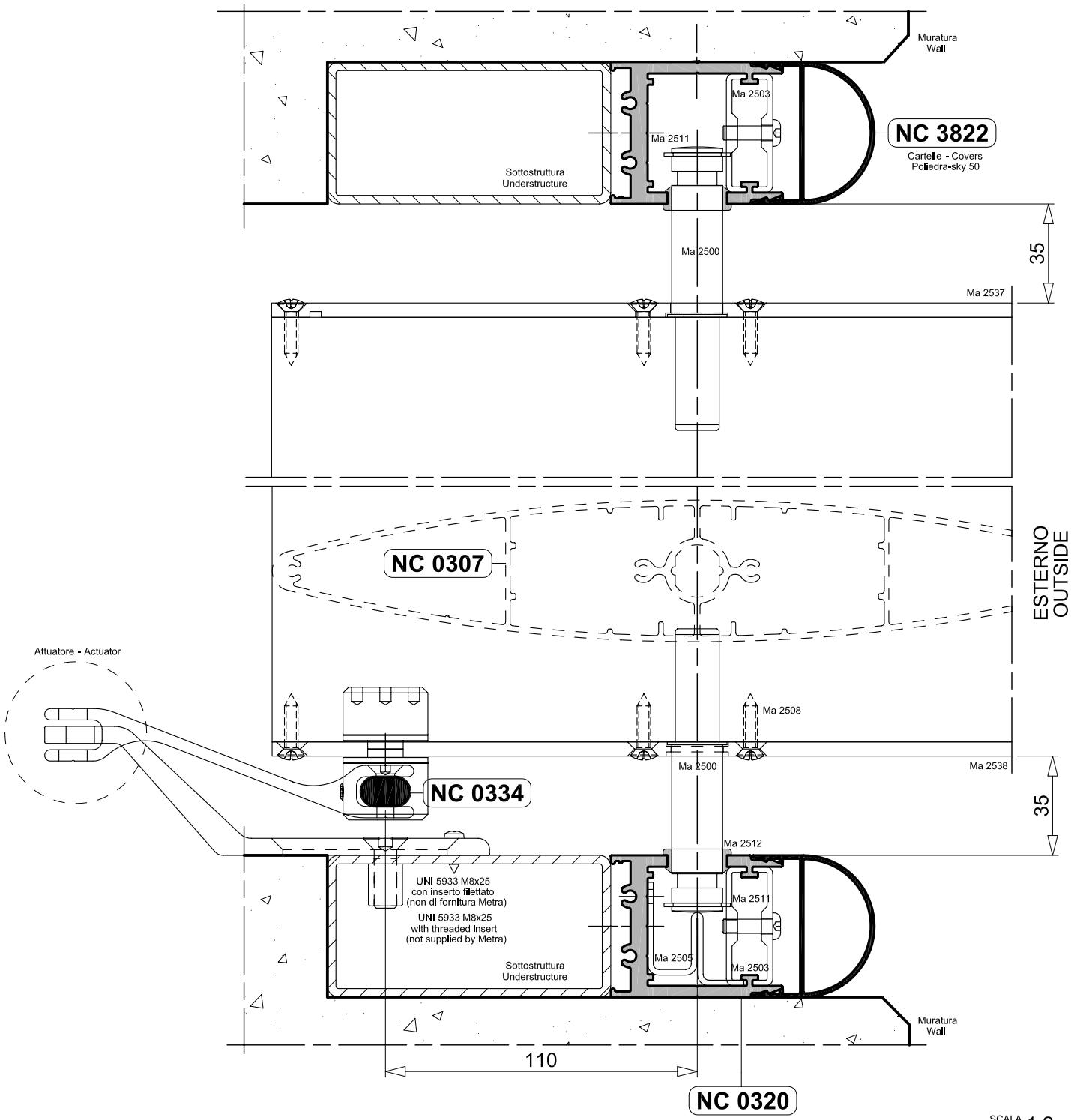


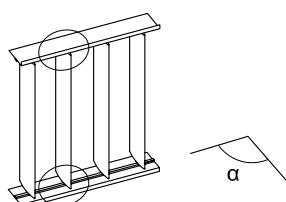
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO ANGOLO VARIABILE A COMANDO SINGLE MULLION CONTROLLED VARIABLE ANGLE		NC 0320	NC 0304
		70 mm	225 mm


 SCALA
SCALE 1:2



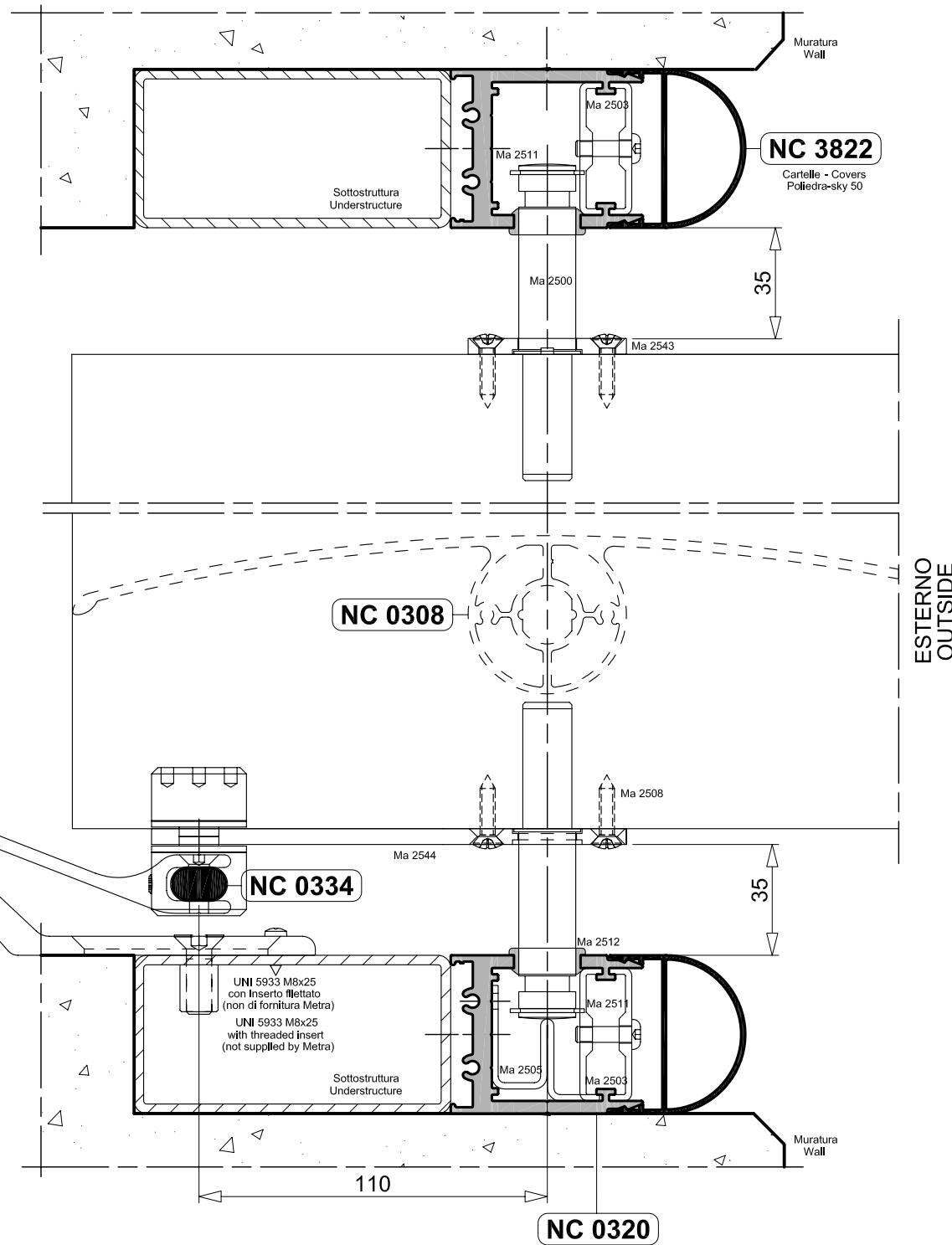
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO ANGolo VARIABILE A COMANDO SINGLE MULLION CONTROLLED VARIABLE ANGLE	NC 0320	NC 0307
	70 mm	300 mm

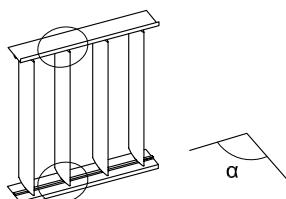



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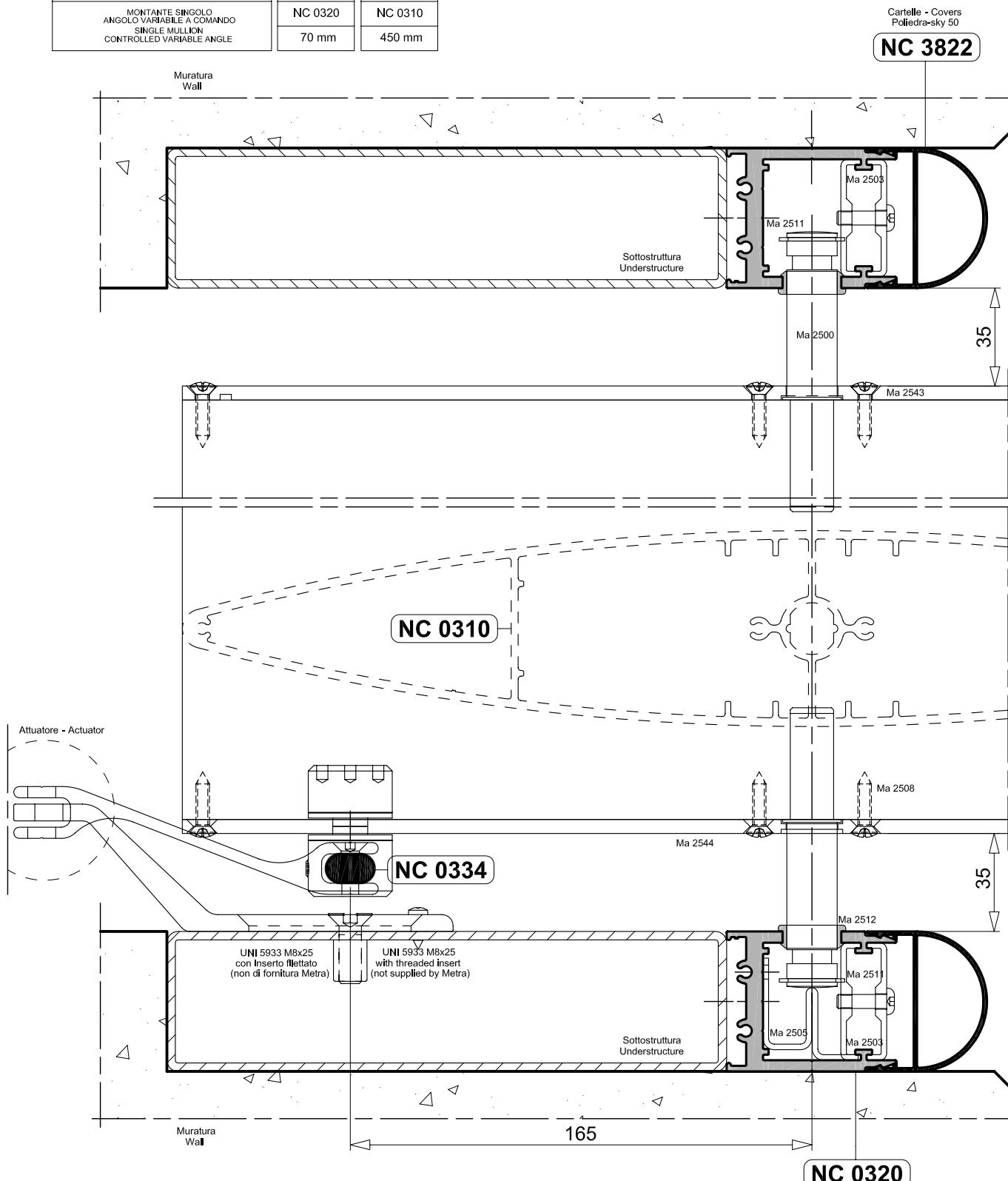
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO ANGOLO VARIABILE A COMANDO SINGLE MULLION CONTROLLED VARIABLE ANGLE	NC 0320	NC 0308

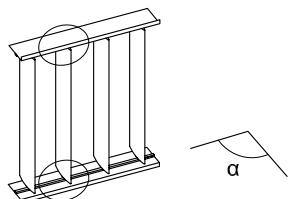
70 mm 300 mm



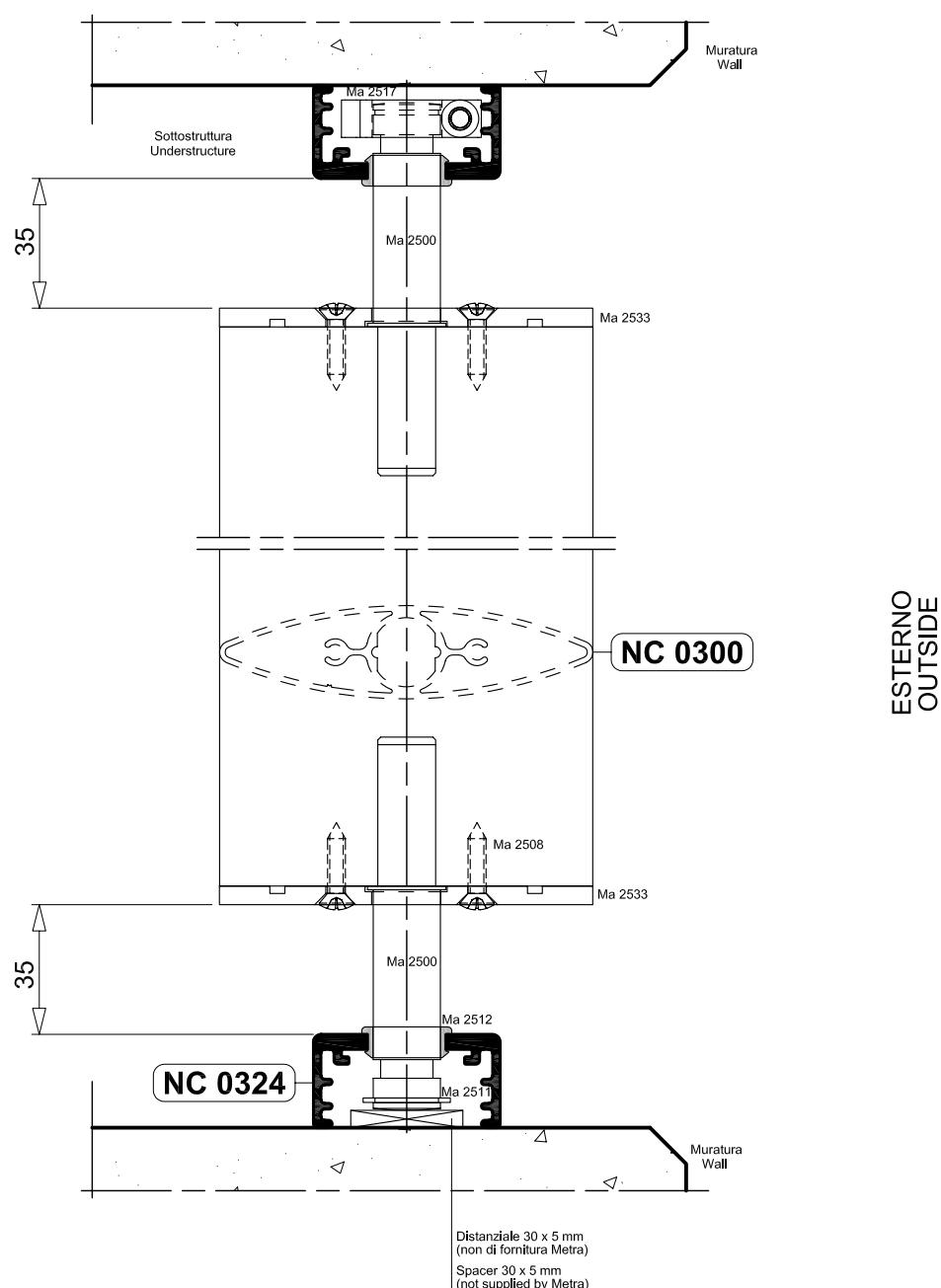


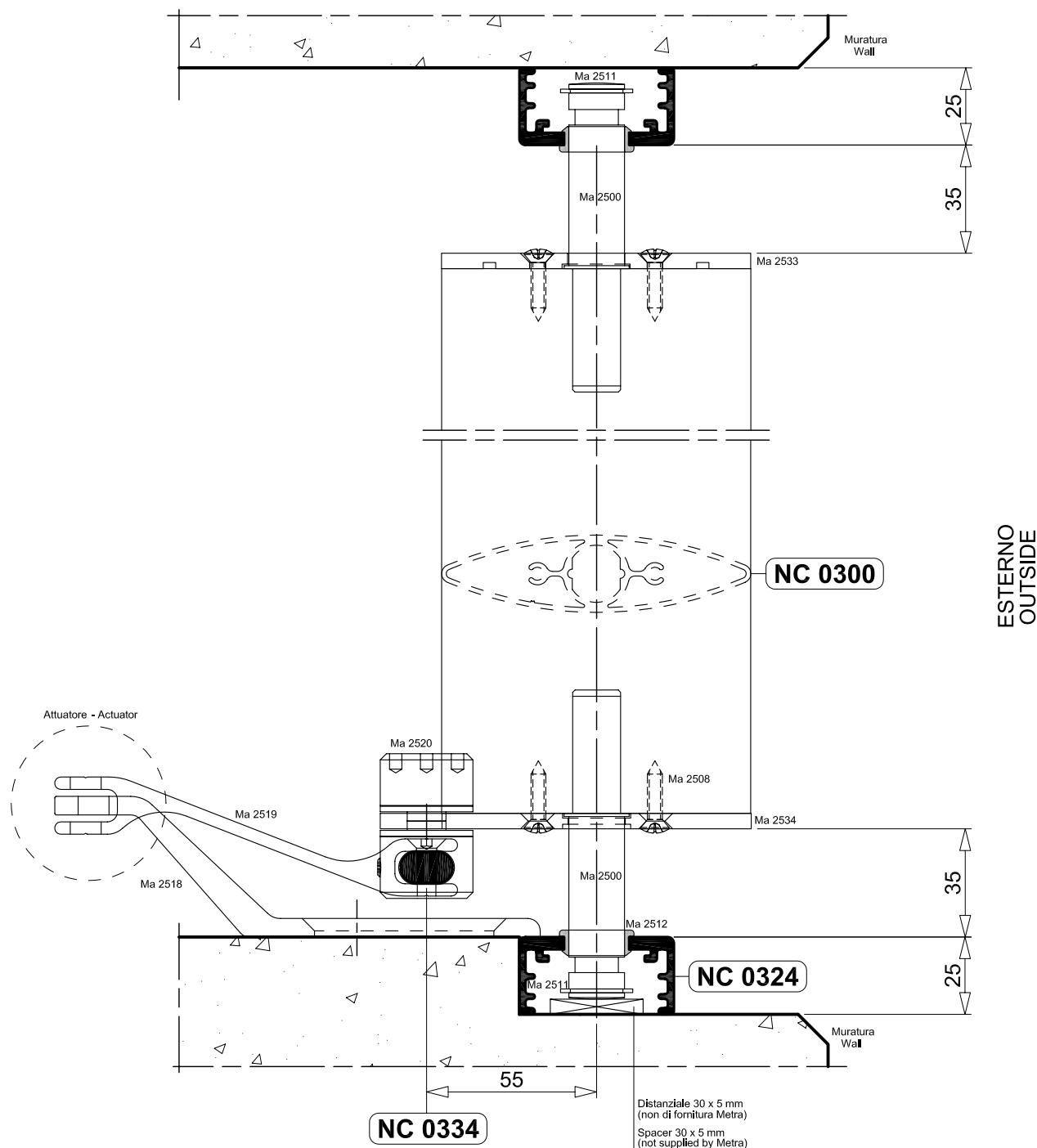
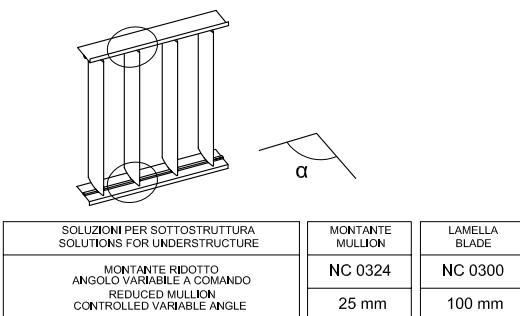
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE SINGOLO ANGOLI VARIABILI A COMANDO SINGLE MULLION CONTROLLED VARIABLE ANGLE	NC 0320	NC 0310
	70 mm	450 mm

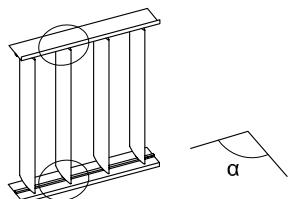




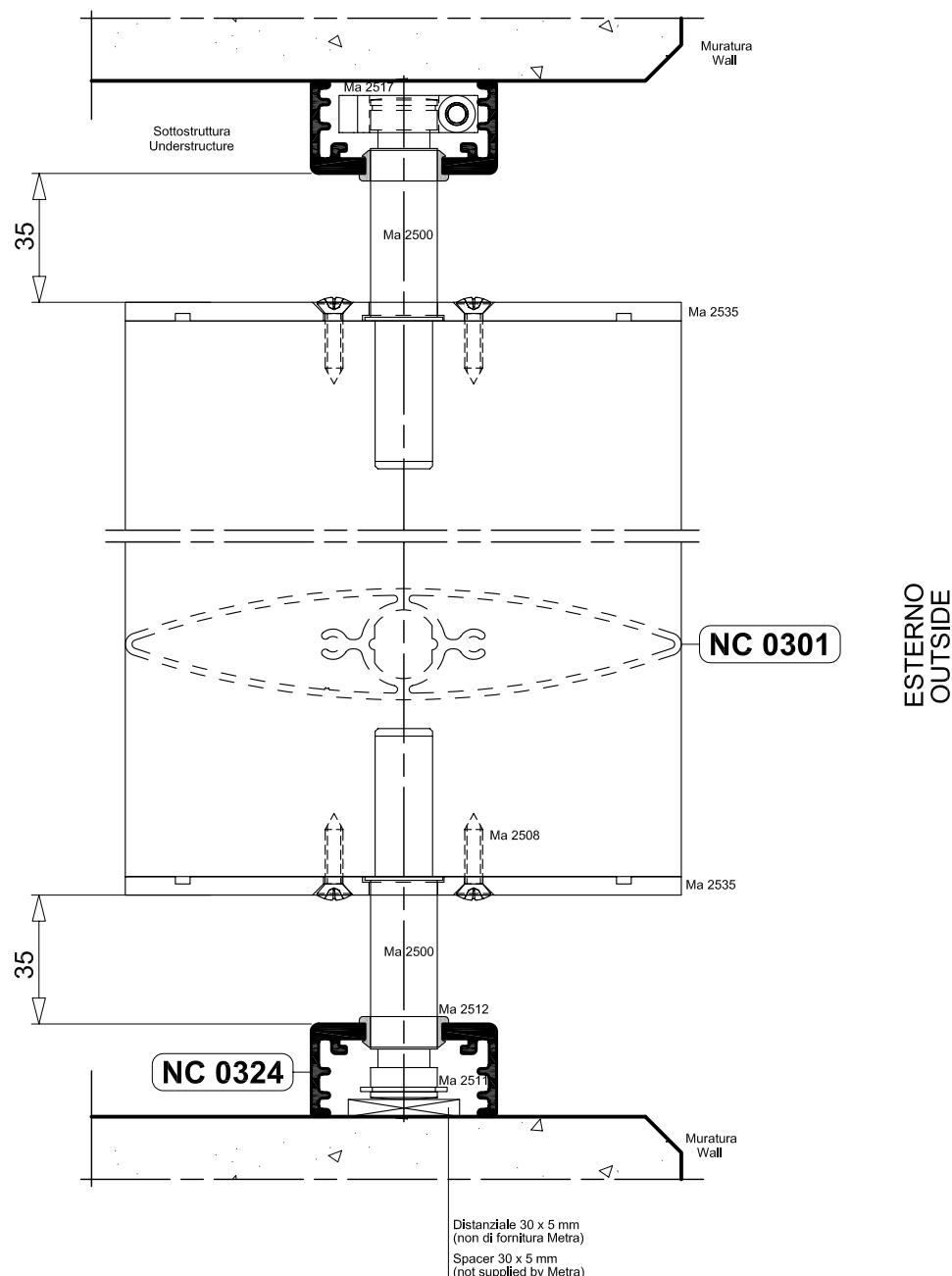
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES		NC 0324	NC 0300
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$		25 mm	100 mm

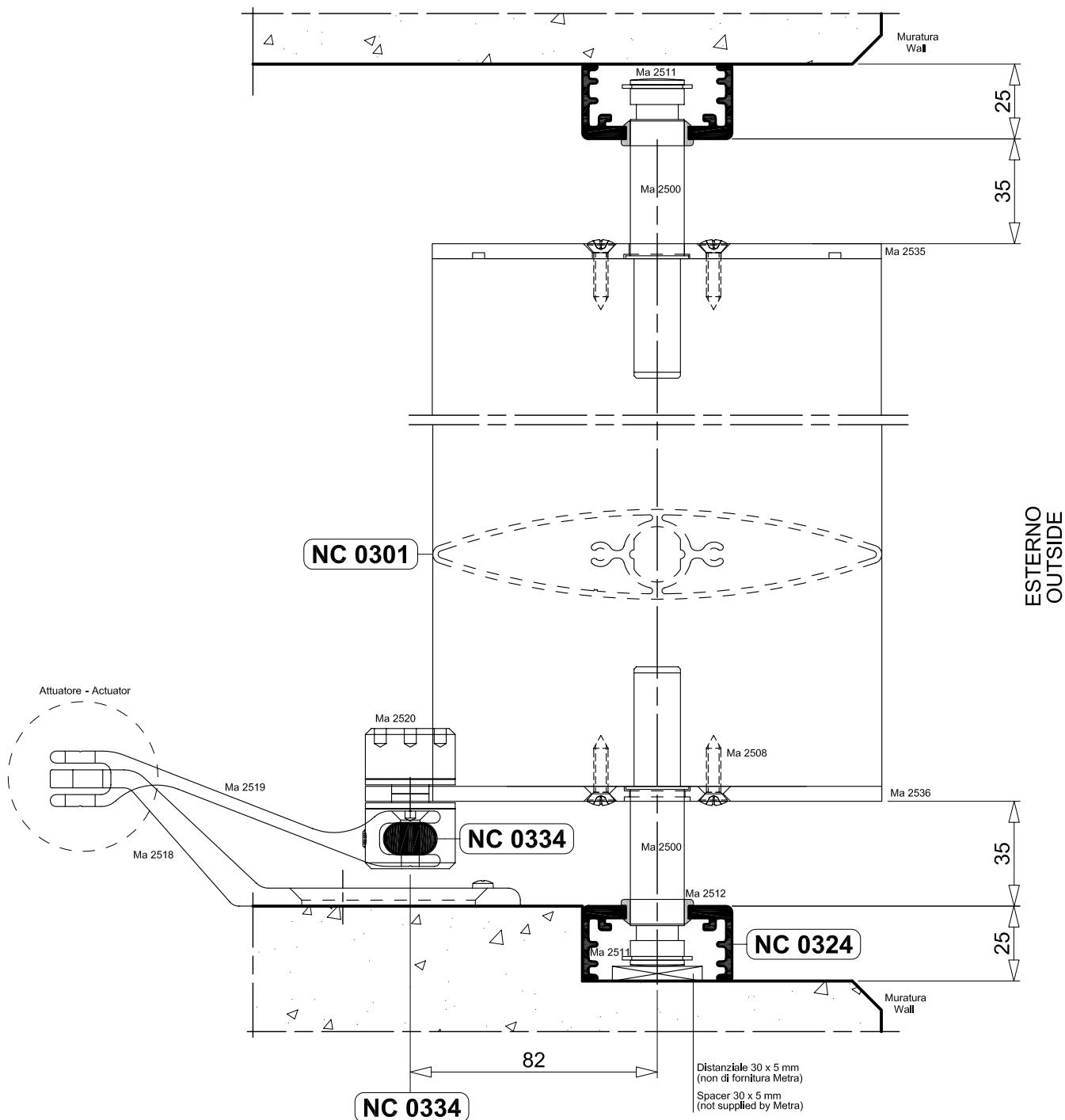
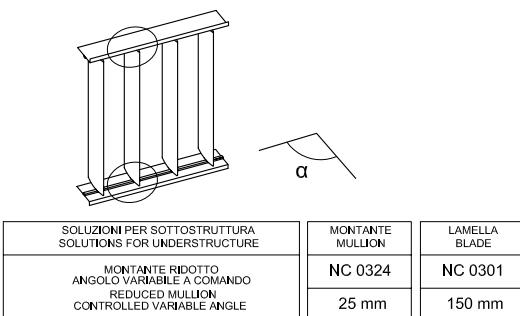

 SCALA
SCALE 1:2

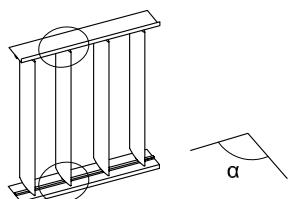

 SCALA 1:2
SCALE 1:2



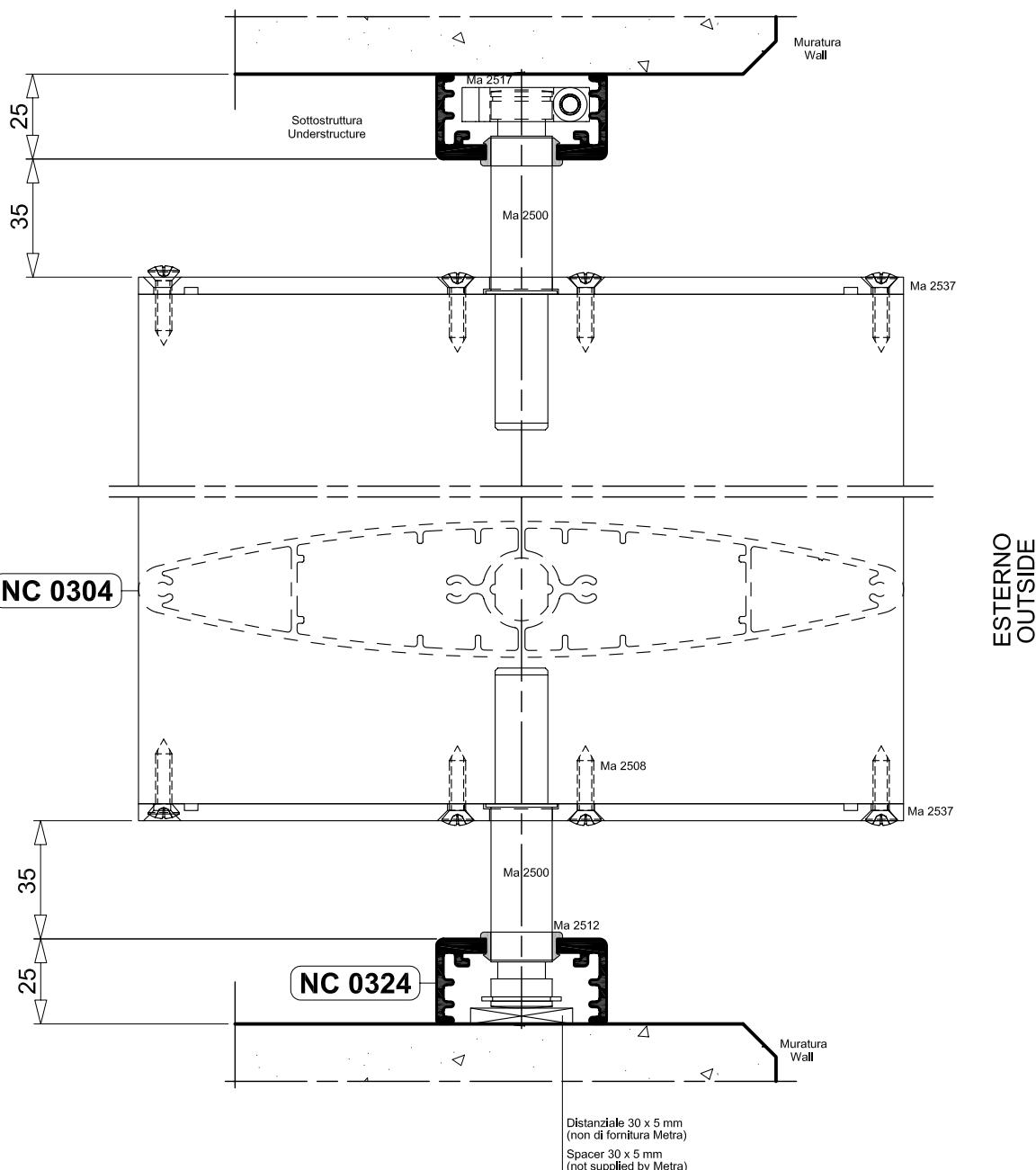
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0301
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	150 mm

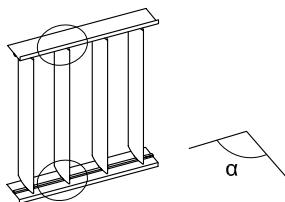

 SCALA
SCALE 1:2


 SCALA 1:2
SCALE 1:2

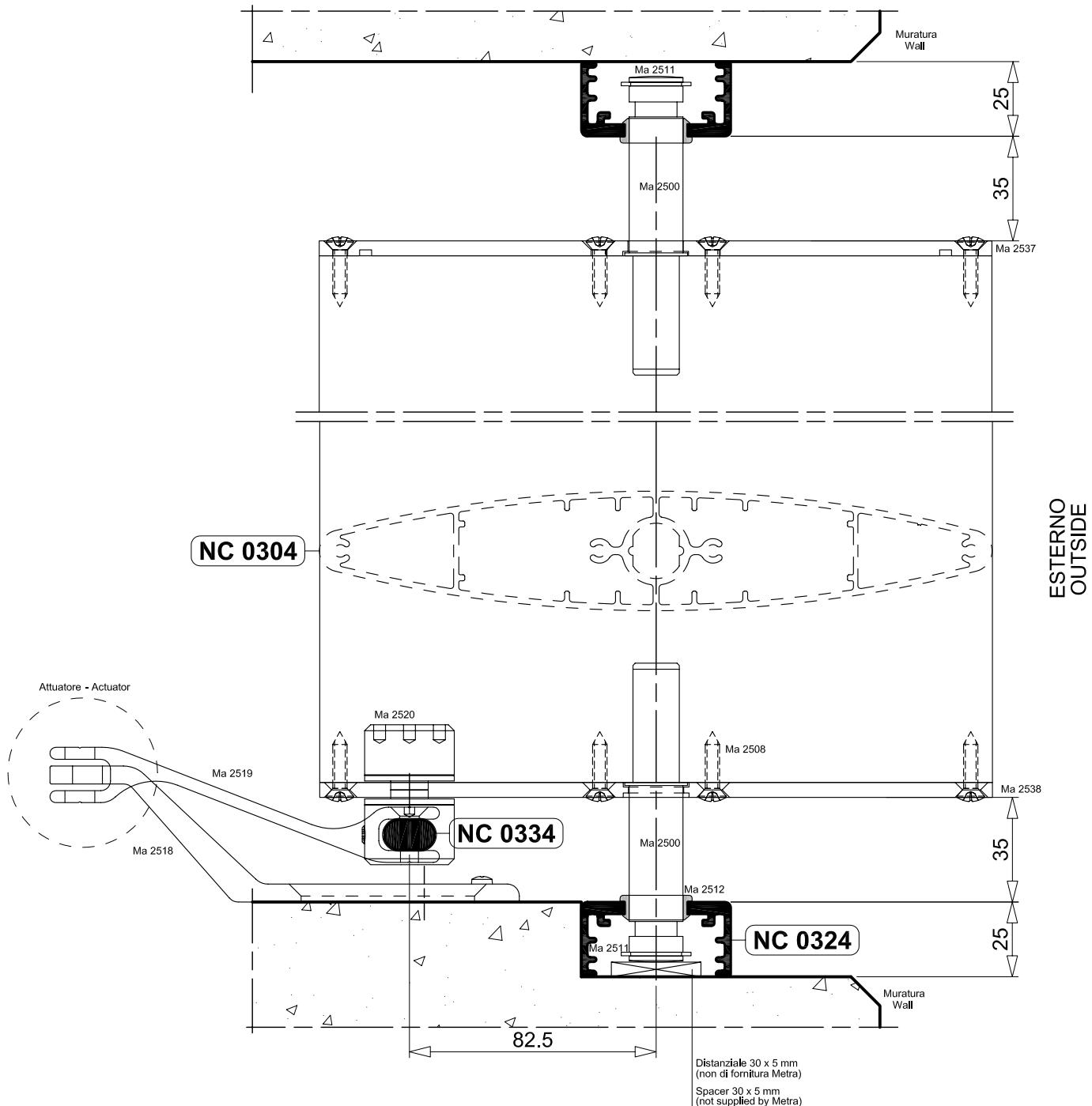


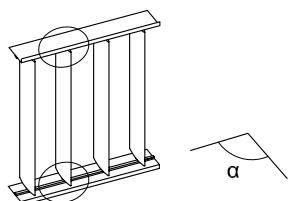
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO - ANGOLI PRESTABILITI REDUCED MULLION - PRE-SET ANGLES	NC 0324	NC 0304
$\alpha = 0^\circ - 15^\circ - 30^\circ - 45^\circ - 60^\circ - 75^\circ - 90^\circ$	25 mm	225 mm


 SCALA
SCALE 1:2



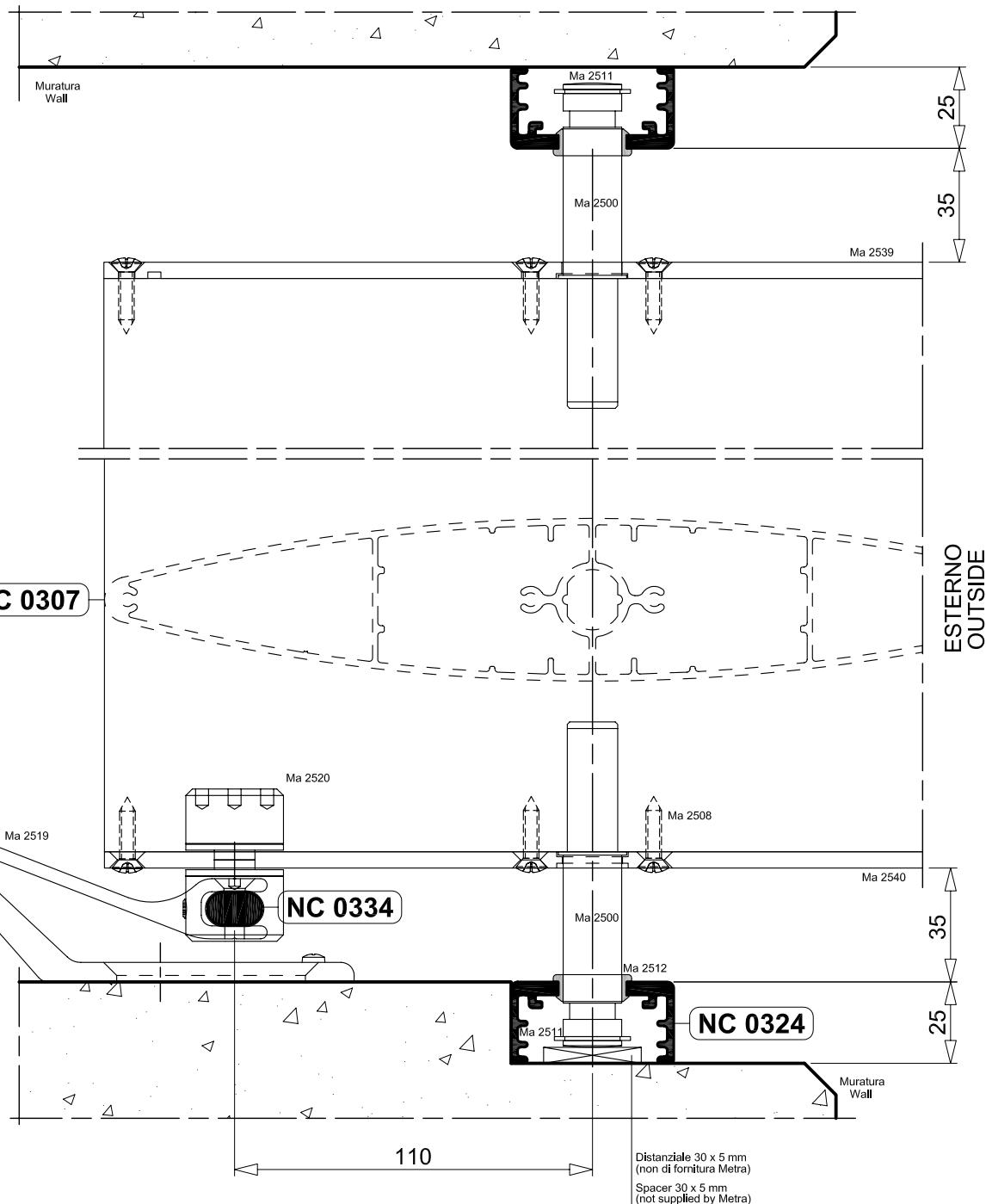
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO ANGolo VARIABILE A COMANDO REDUCED MULLION CONTROLLED VARIABLE ANGLE	NC 0324	NC 0304
	25 mm	225 mm

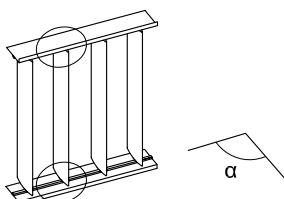

 SCALA 1:2
SCALE 1:2



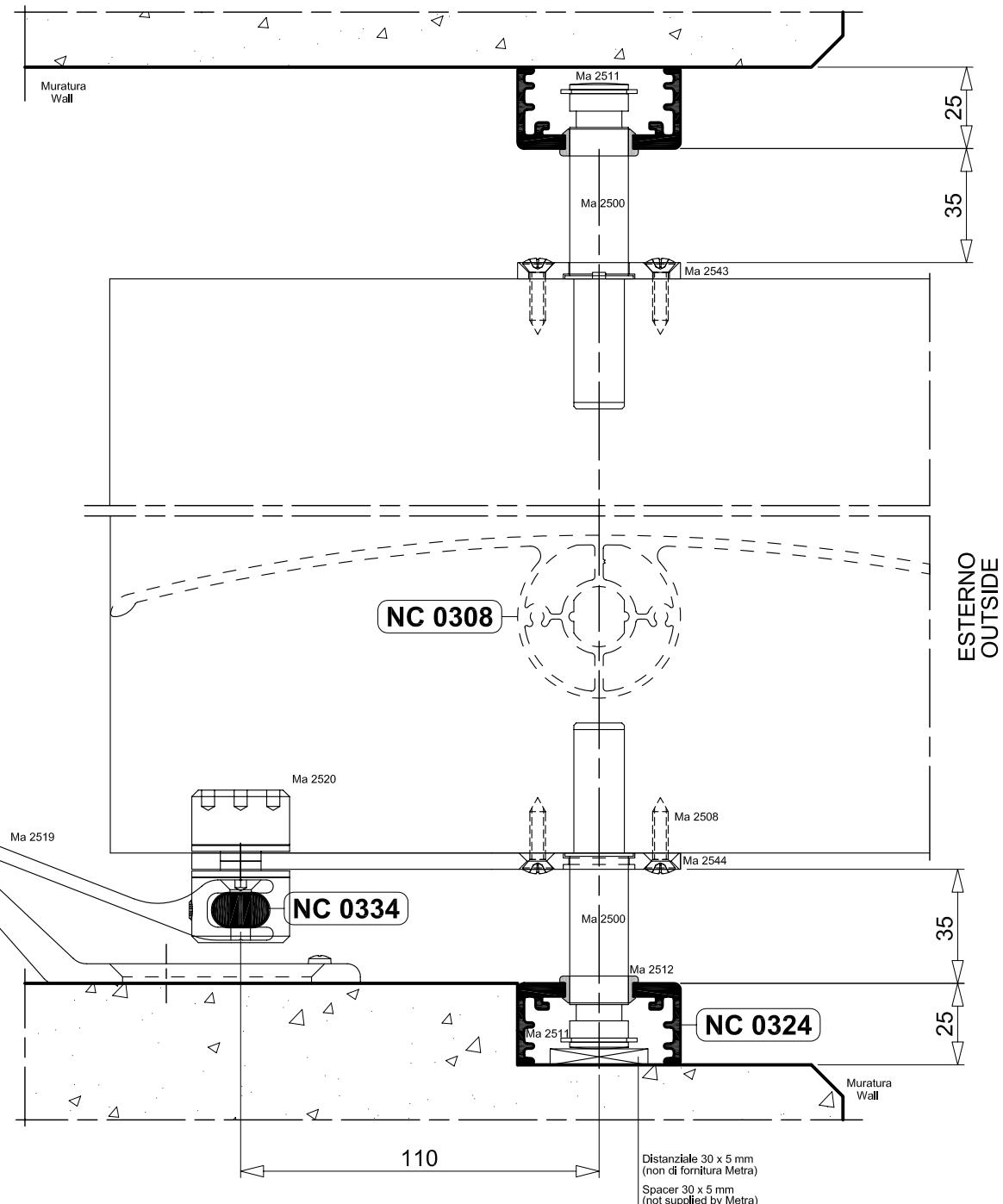
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO ANGolo VARIABILE A COMANDO REDUCED MULLION CONTROLLED VARIABLE ANGLE	NC 0324	NC 0307

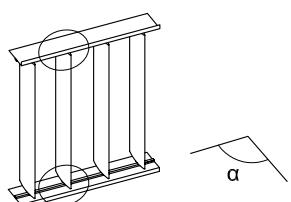
25 mm 300 mm


 SCALA
SCALE 1:2

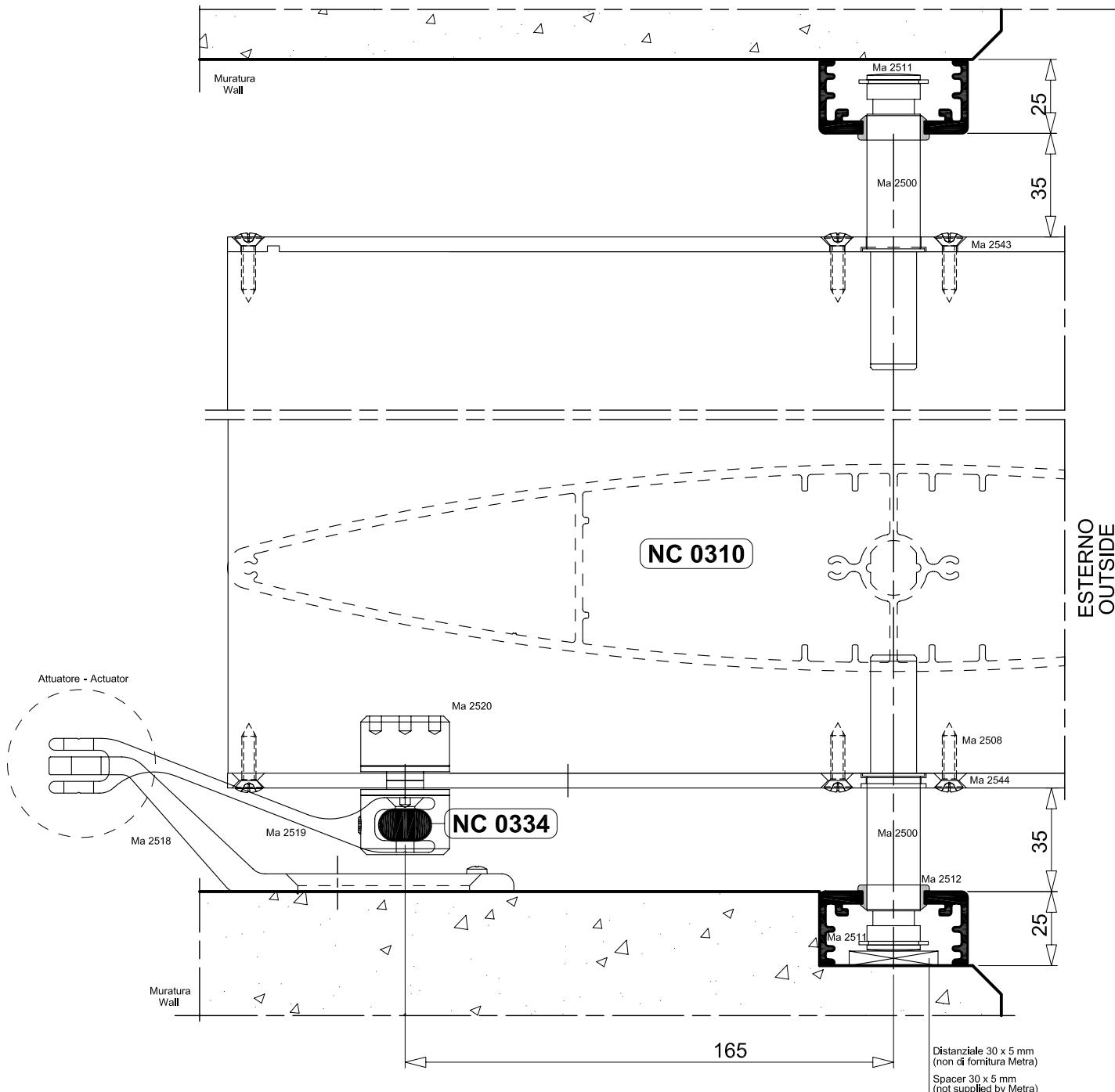


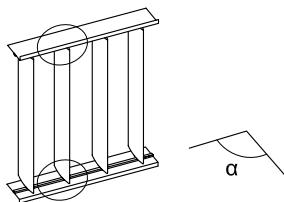
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO ANGolo VARIABILE A COMANDO REDUCED MULLION CONTROLLED VARIABLE ANGLE	NC 0324	NC 0308
	25 mm	300 mm



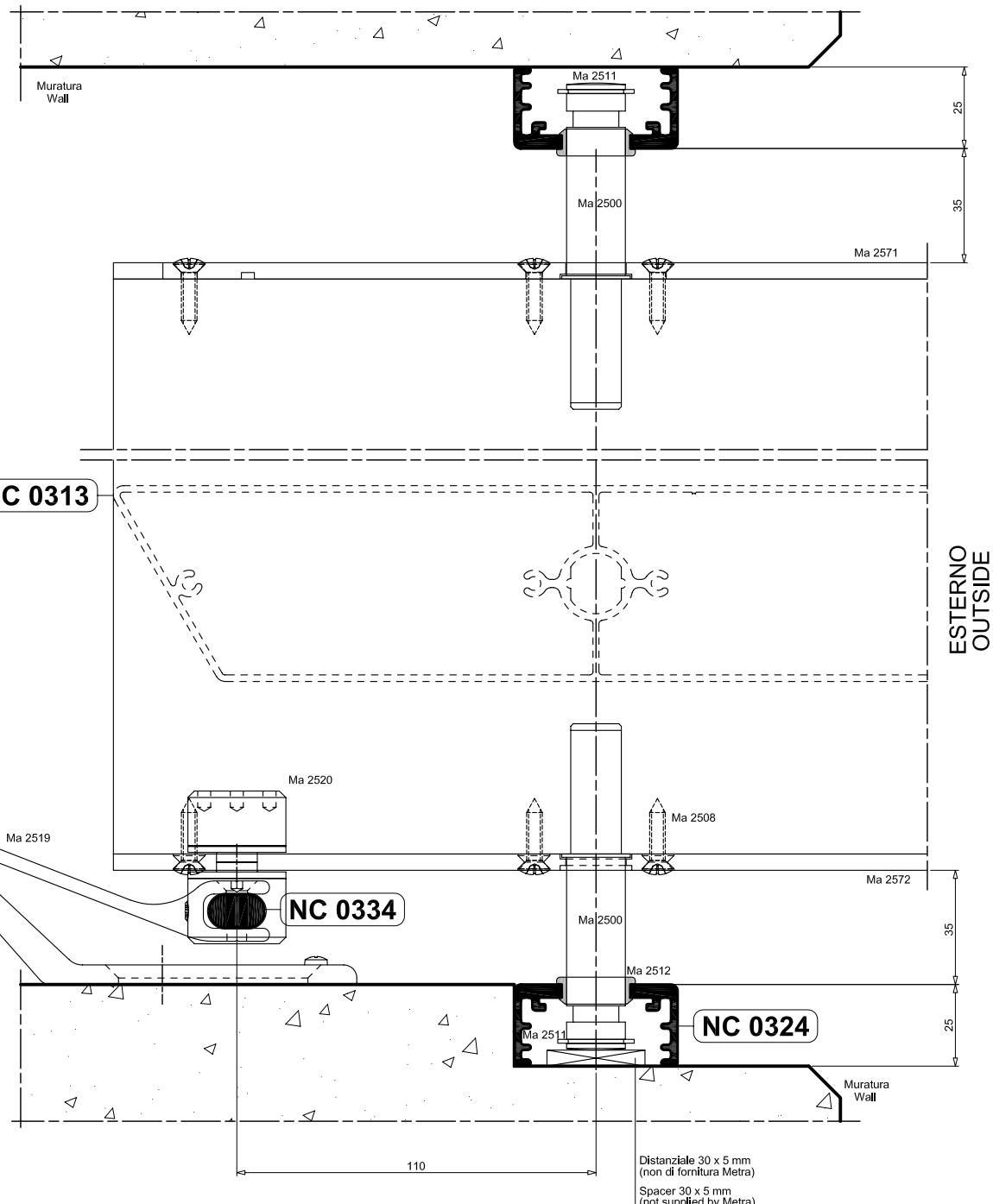


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
MONTANTE RIDOTTO ANGolo VARIABILE A COMANDO REDUCED MULLION CONTROLLED VARIABLE ANGLE	NC 0324 25 mm	NC 0310 450 mm

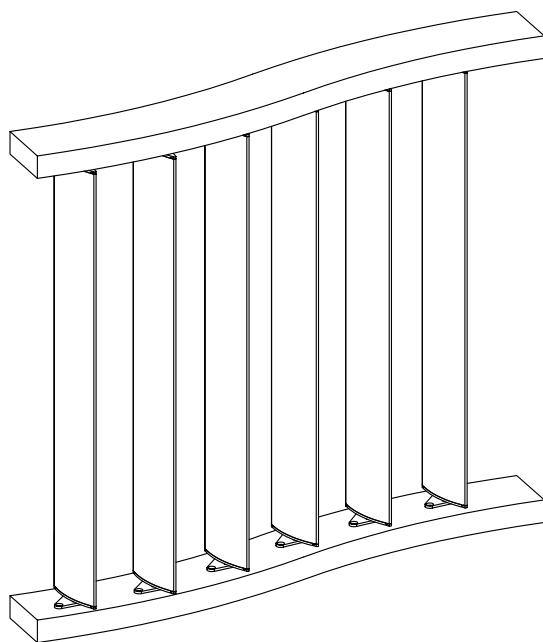

 SCALA 1:2
SCALE 1:2



SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE		
MONTANTE RIDOTTO ANGOLI VARIABILI A COMANDO REDUCED MULLION CONTROLLED VARIABLE ANGLE	MONTANTE MULLION	LAMELLA BLADE
NC 0324	NC 0307	
25 mm	300 mm	


 SCALA 1:2
SCALE 1:2

D8



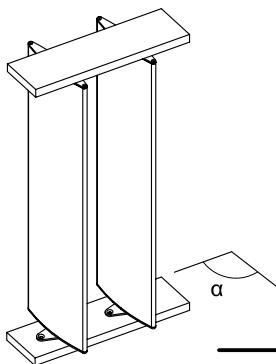
GRUPPO
GROUP
D8

**FRANGISOLE VERTICALE
SEZIONI
VERTICAL SUNBLADE
SECTIONS**

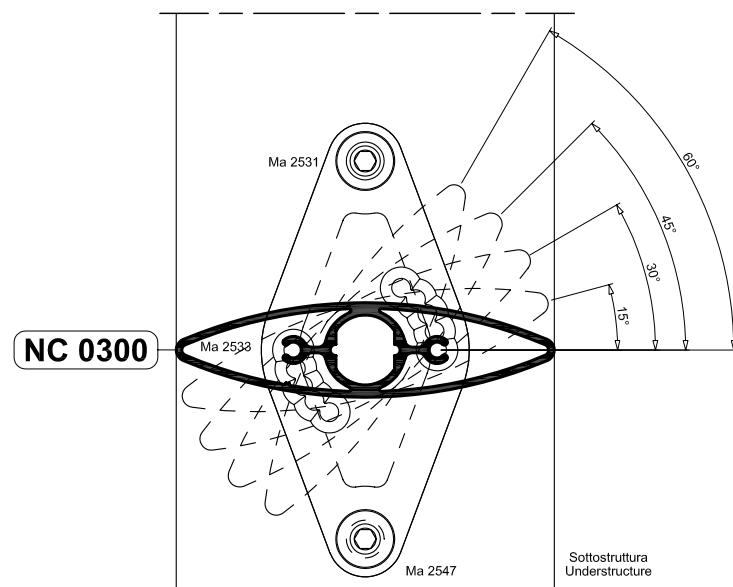
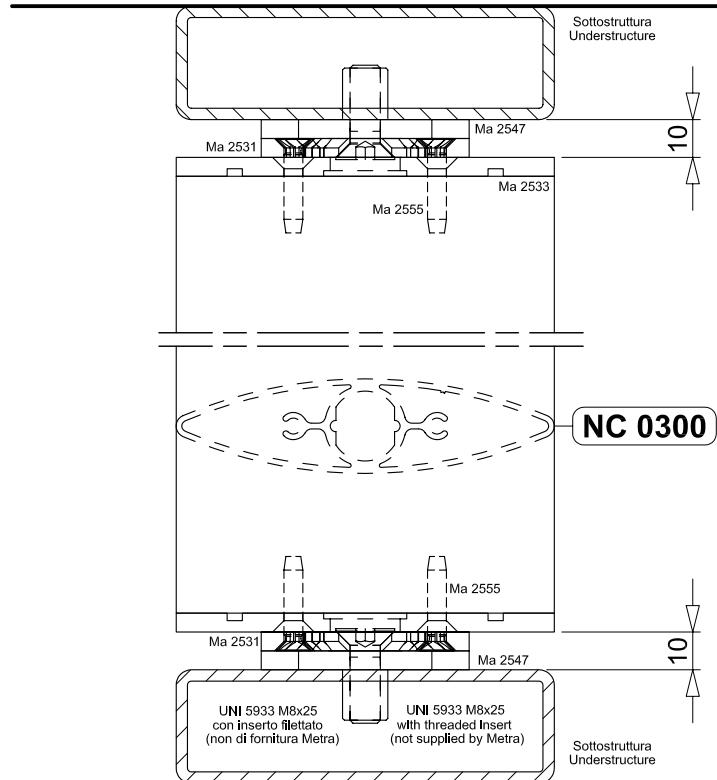
Frangisole verticale per sottostruttura. Angoli prestabiliti.
Vertical sunblade for understructure. Pre-set orientation.

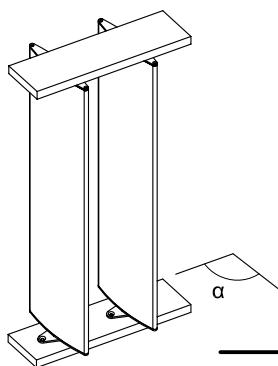
- GRUPPO D8
SEZIONI PRINCIPALI IN SCALA 1 : 2
CON I RELATIVI ACCESSORI E QUOTE
D'INGOMBRO

- GROUP D8
MAIN SECTIONS SCALE 1 : 2
WITH THE RELEVANT ACCESSORIES
AND DIMENSIONS

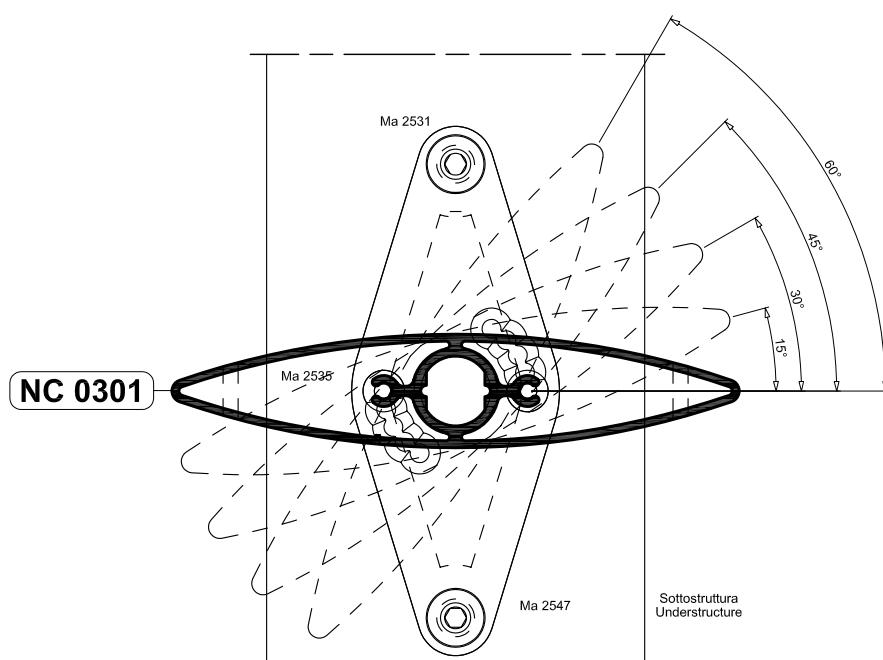
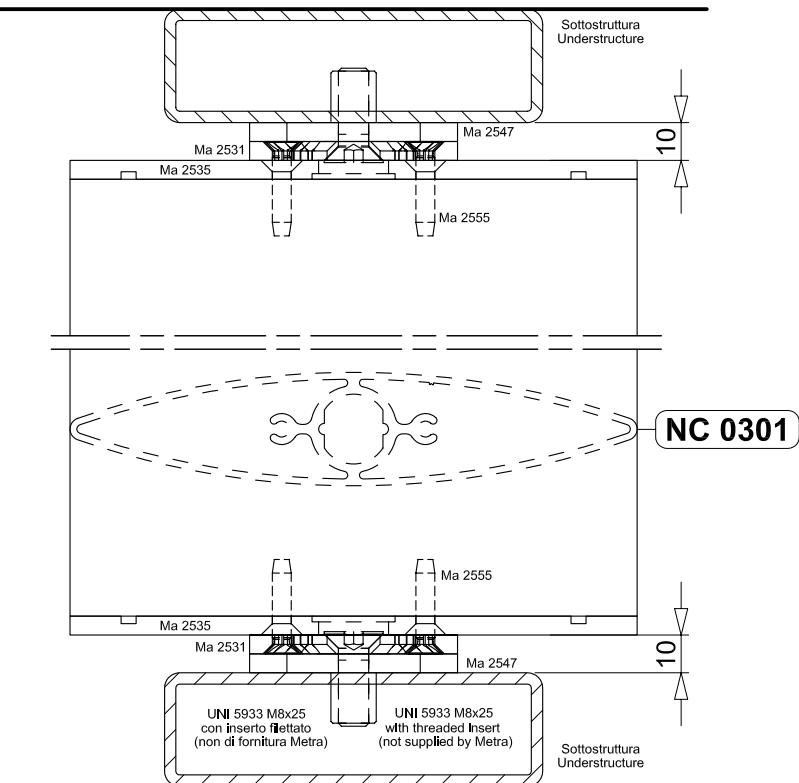


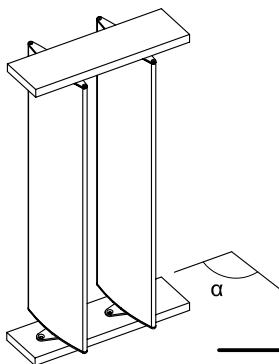
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0300
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	100 mm


 SCALA 1:2
 SCALE 1:2

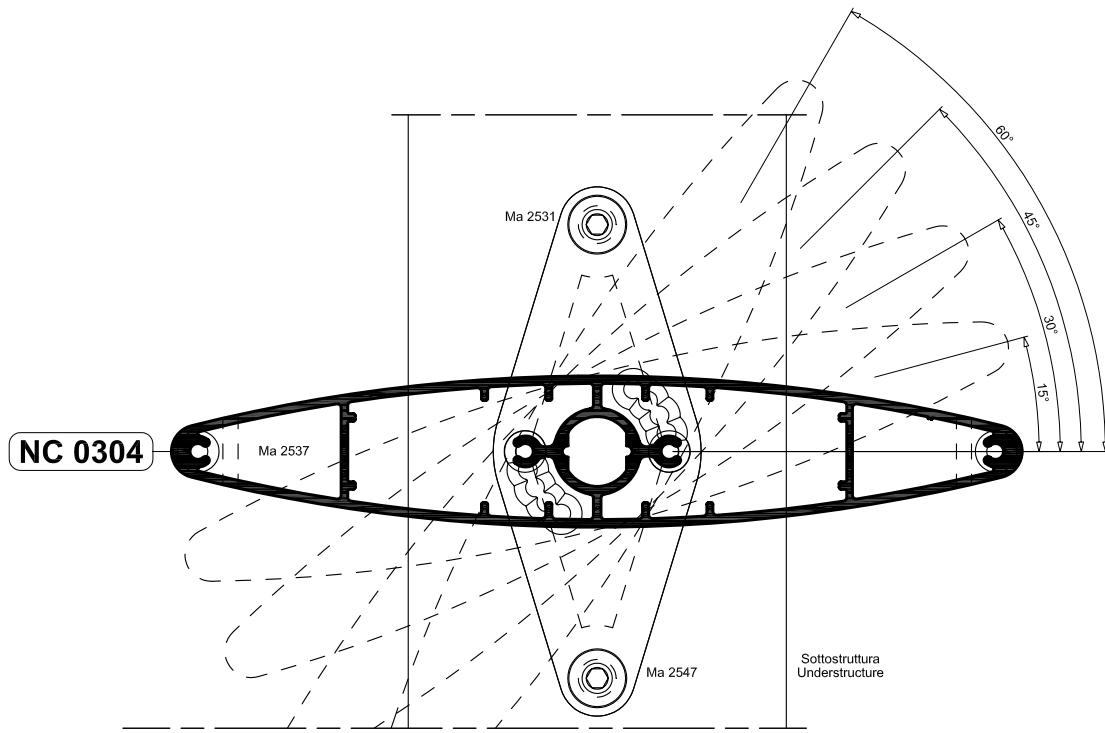
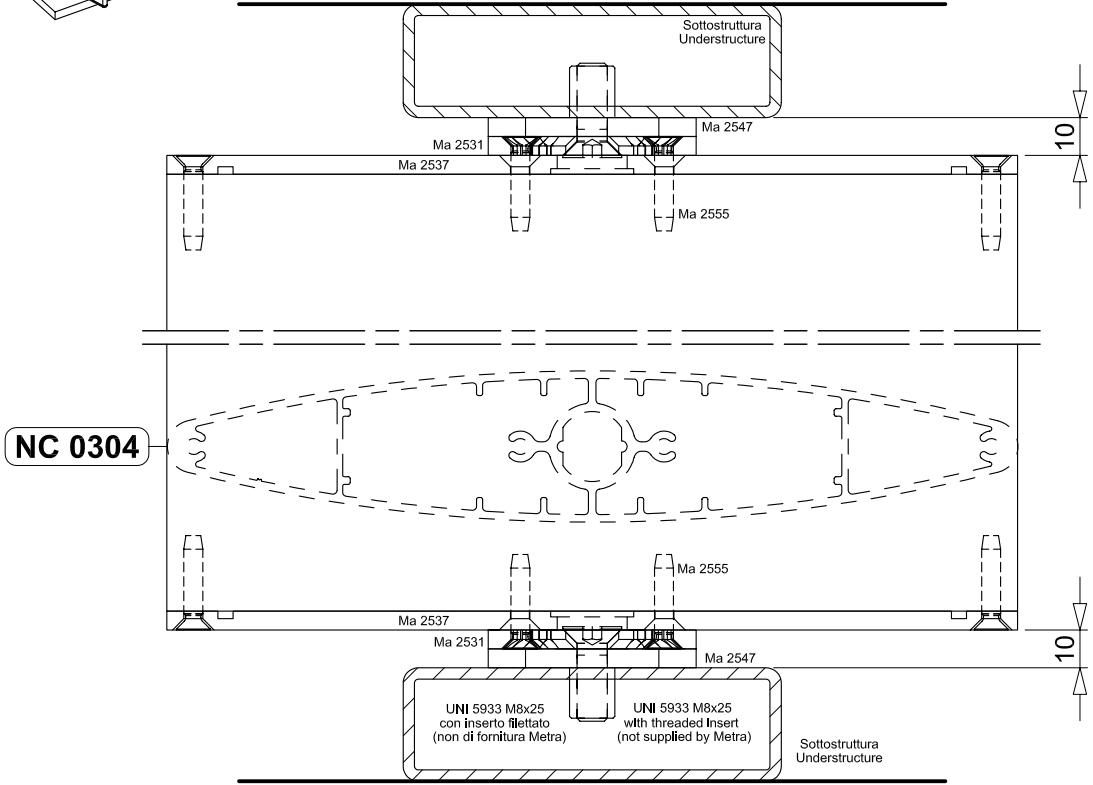


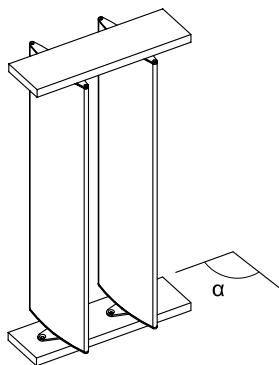
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0301
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	150 mm


 SCALA
SCALE 1:2

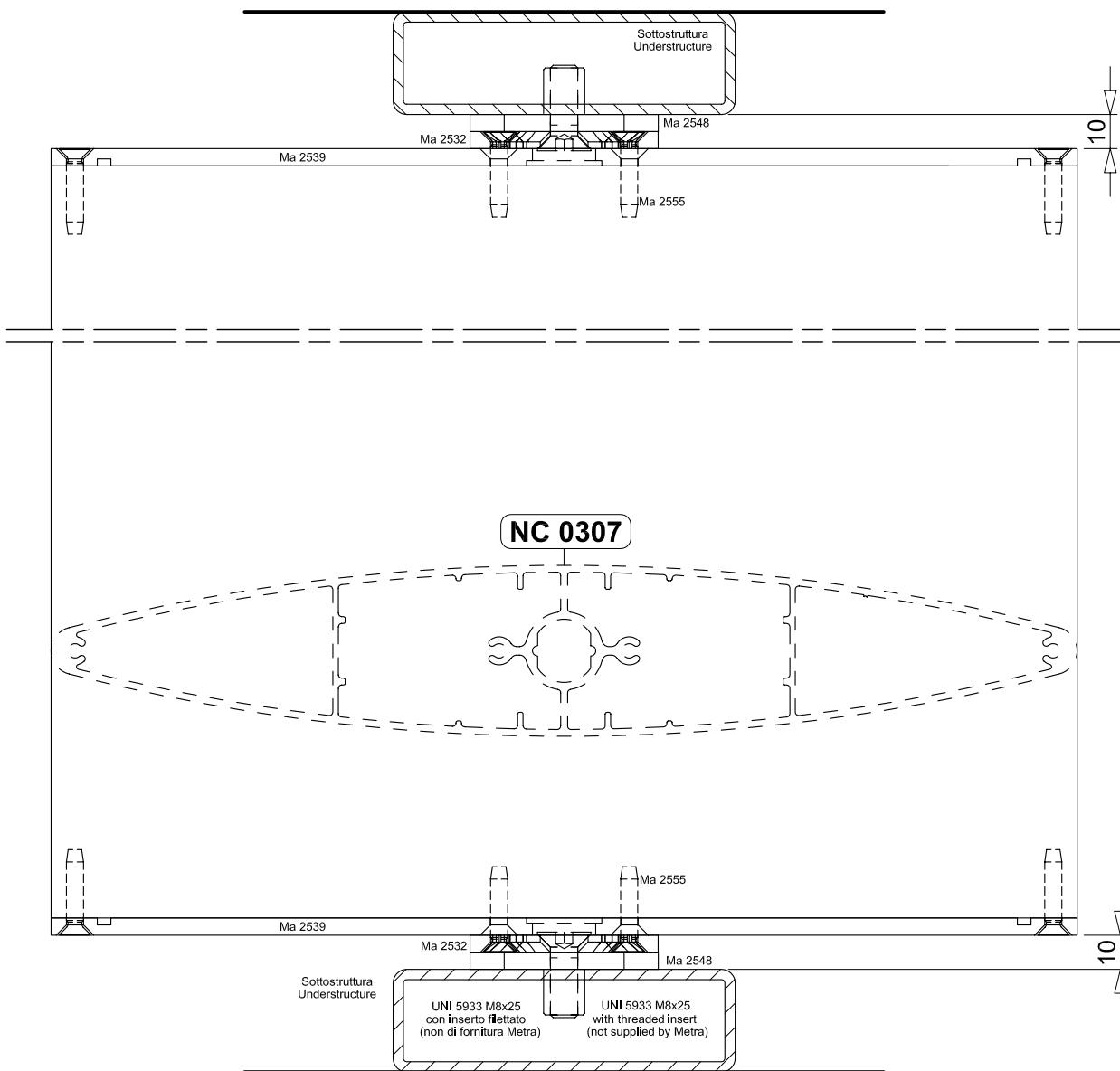


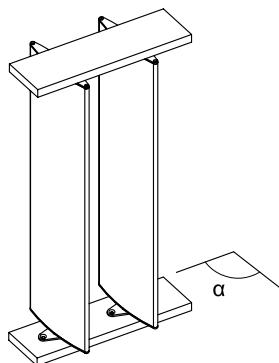
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0304
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	225 mm


 SCALA 1:2
SCALE 1:2

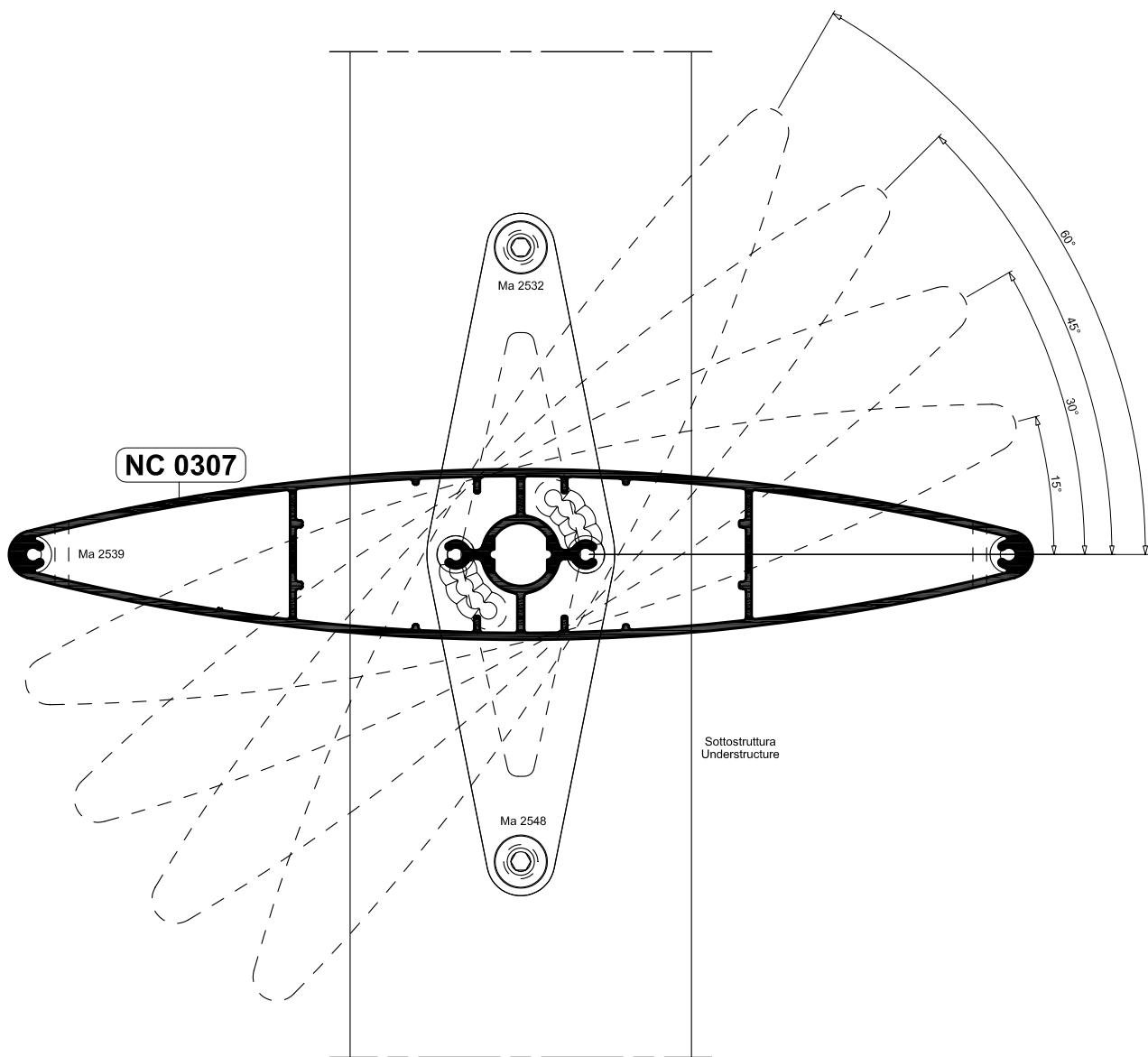


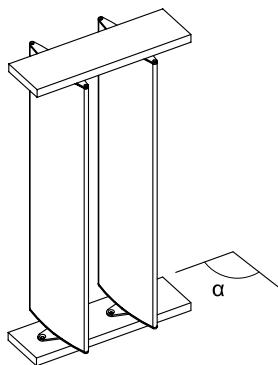
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0307
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	300 mm


 SCALA
SCALE 1:2

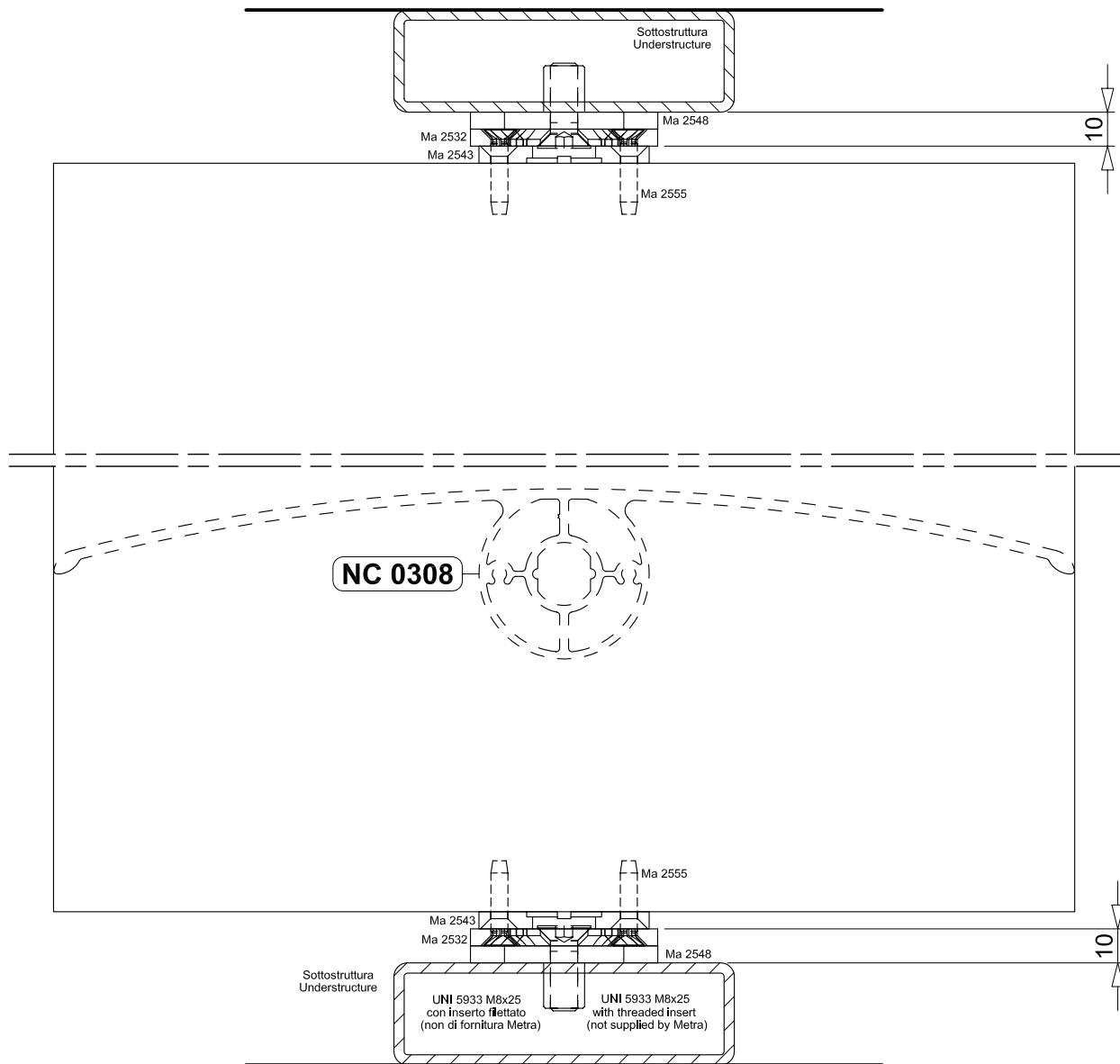


SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0307
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	300 mm

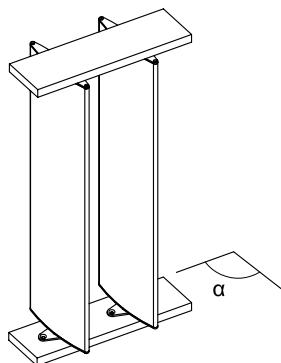

 SCALA 1:2
SCALE 1:2



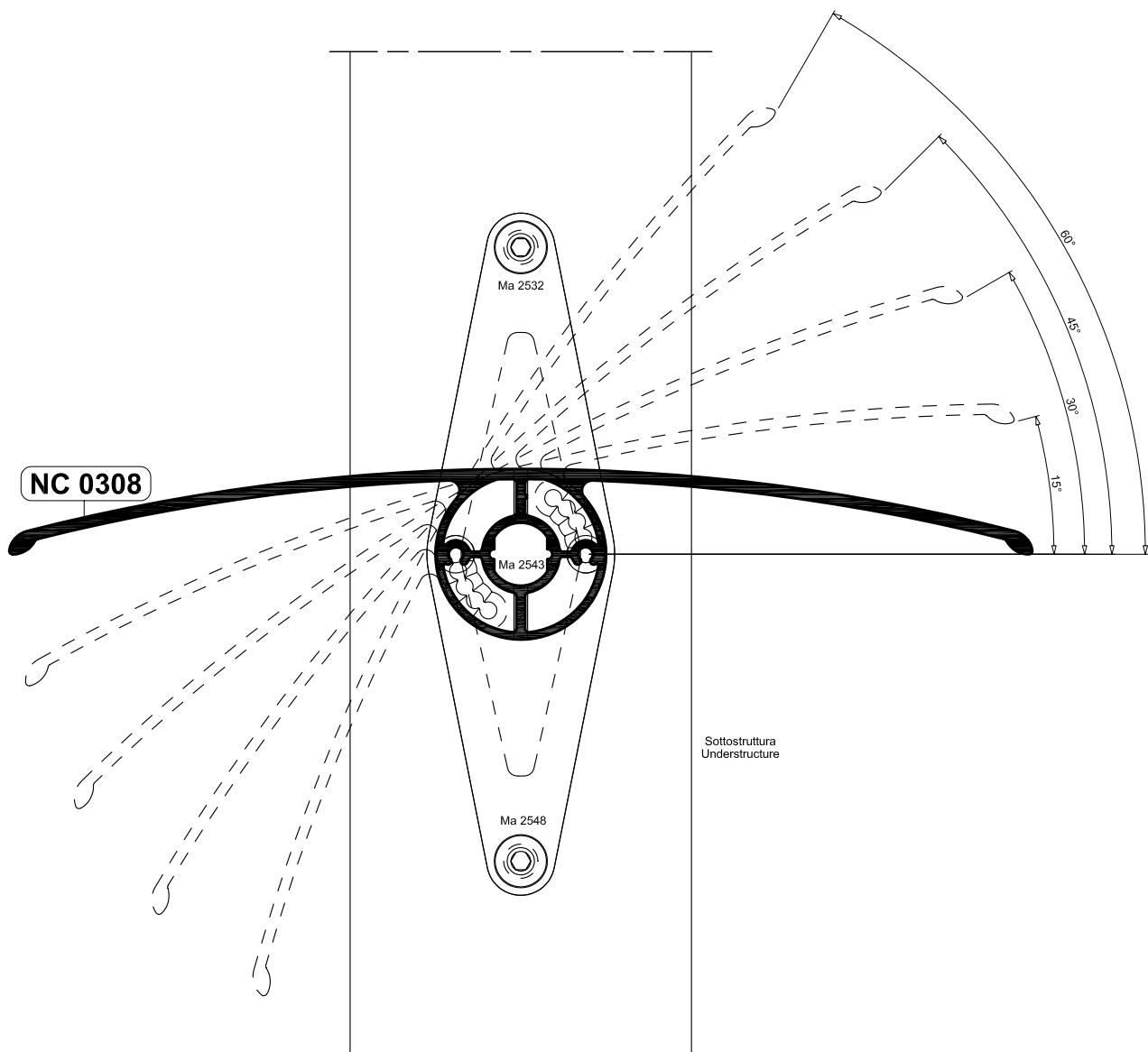
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0308
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	300 mm

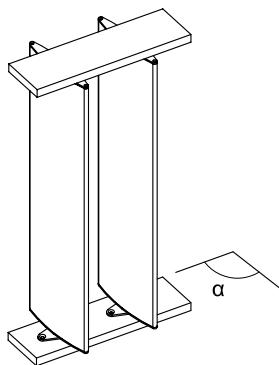


SCALA
SCALE 1:2



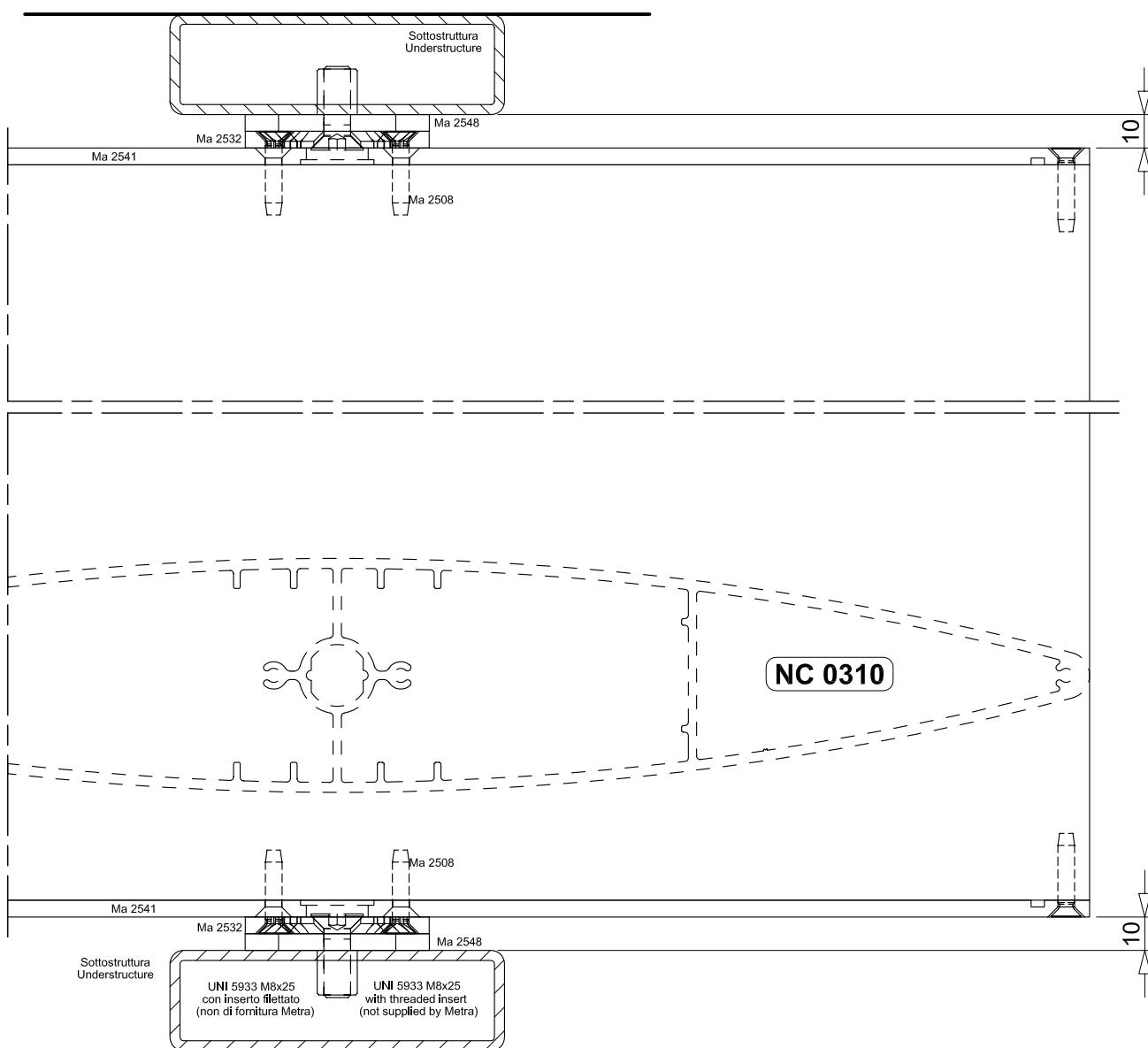
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0308
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	300 mm

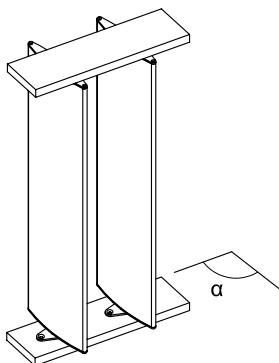

 SCALA 1:2
SCALE 1:2



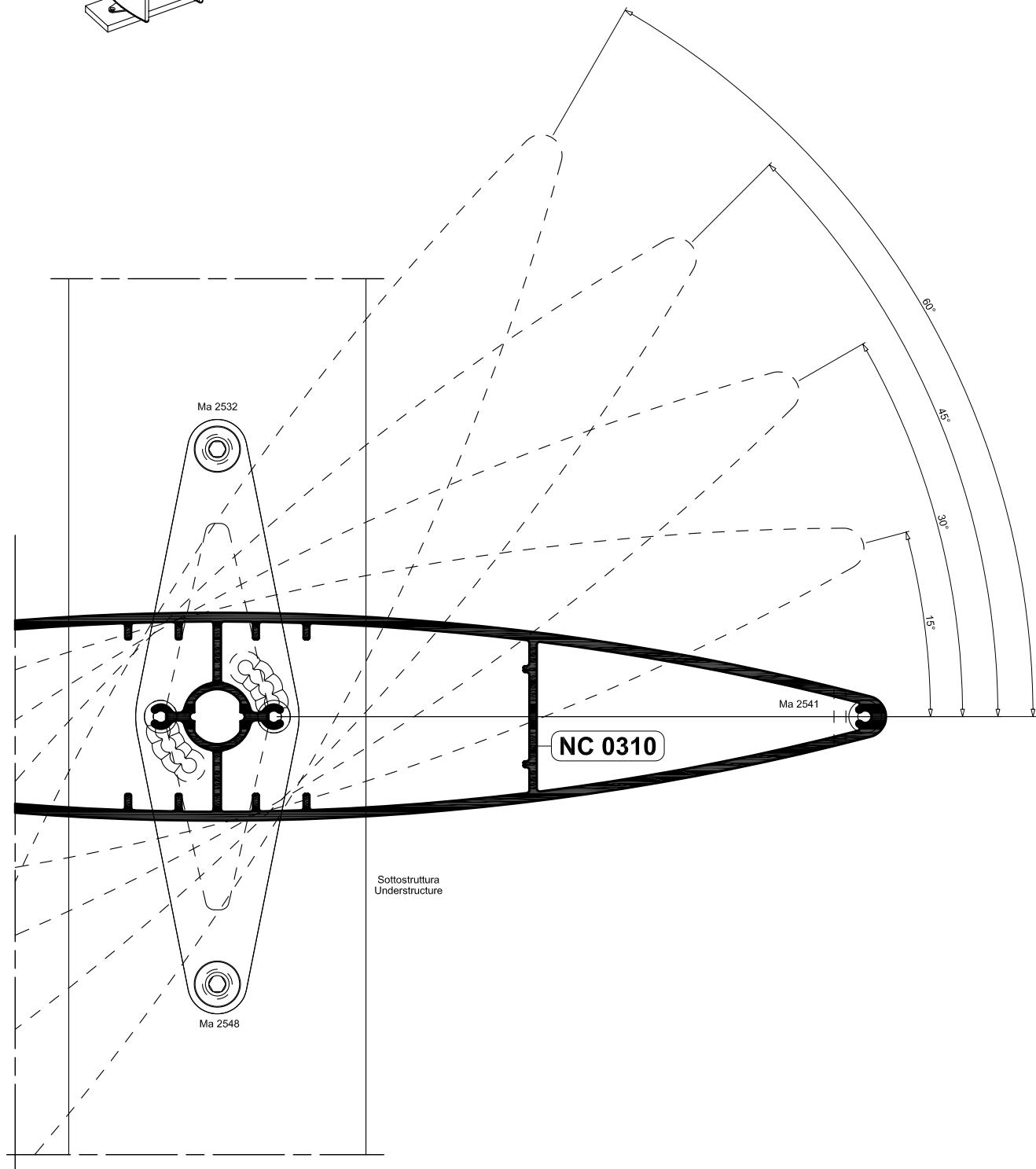
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	

MONTANTE MULLION	LAMELLA BLADE
-	NC 0310
-	450 mm


 SCALA
SCALE 1:2



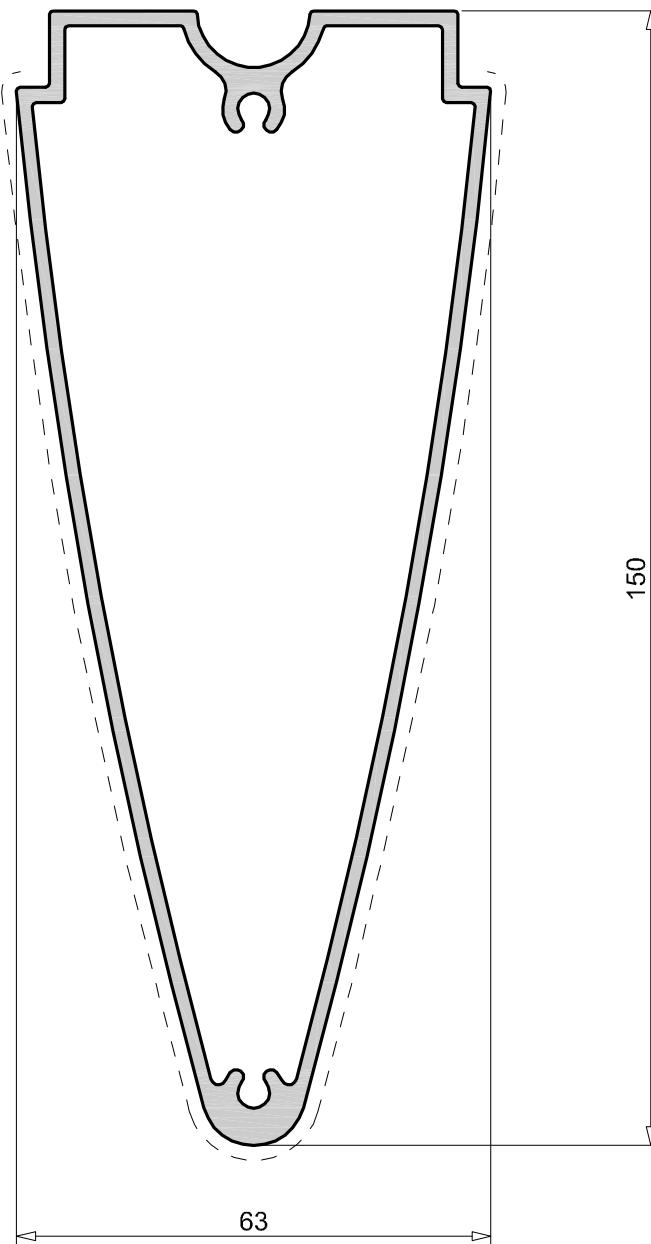
SOLUZIONI PER SOTTOSTRUTTURA SOLUTIONS FOR UNDERSTRUCTURE	MONTANTE MULLION	LAMELLA BLADE
LAMELLA INTERROTTA - ANGOLI PRESTABILITI INTERRUPTED BLADE - PRE-SET ANGLES	-	NC 0310
$\alpha = 0^\circ 15^\circ 30^\circ 45^\circ 60^\circ$	-	450 mm

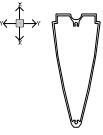

 SCALA 1:2
SCALE 1:2

AGGIORNAMENTI
UPDATING

OGGETTO: LAMELLA FRANGISOLE SPECIFICA PER CALANDRATURA
PROFILATO ESTERNO

R 13185

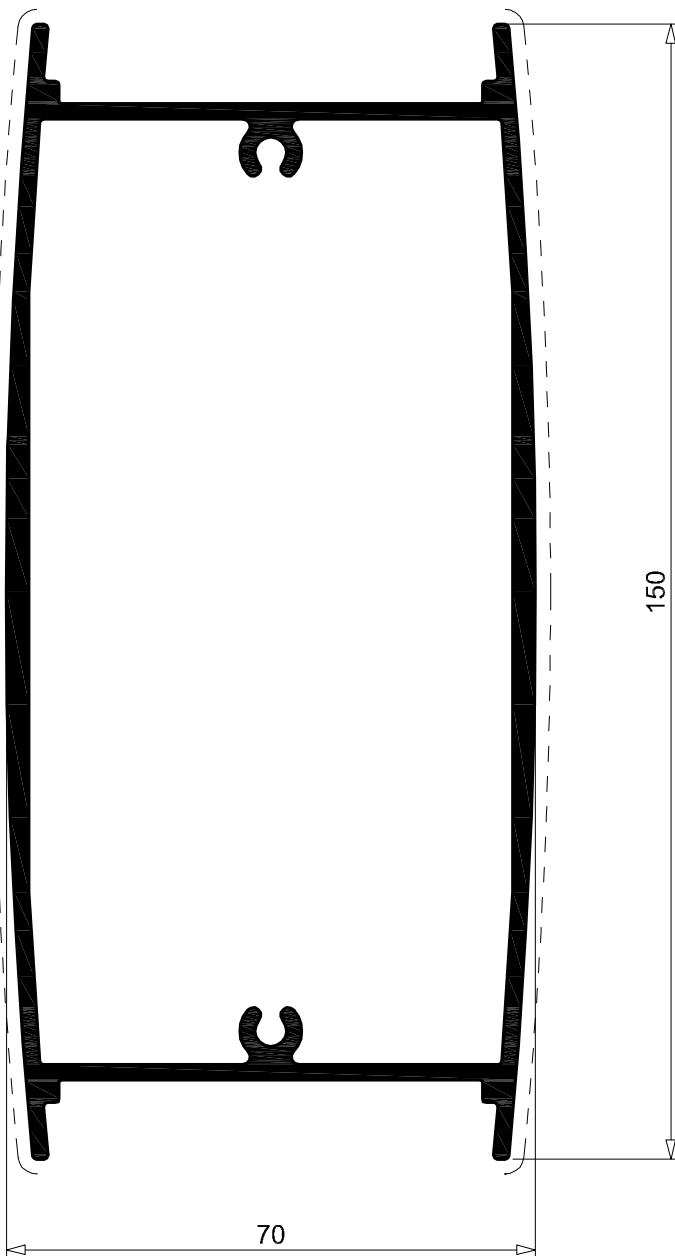


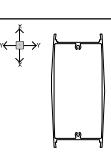
SEZIONE	SIGLA	J_X J_Y	W_X W_Y	IMPIEGO
	PESO kg/m	cm ⁴	cm ³	
	R 13185	211.254 2.179	25.035 9.535	LAMELLA FRANGISOLE
PERIMETRO mm			PERIMETRO IN VISTA mm	
382			— — — 293	

NOTE: Profilato a basso consumo, verificare la classe di appartenenza

OGGETTO: LAMELLA FRANGISOLE SPECIFICA PER CALANDRATURA
PROFILATO CENTRALE

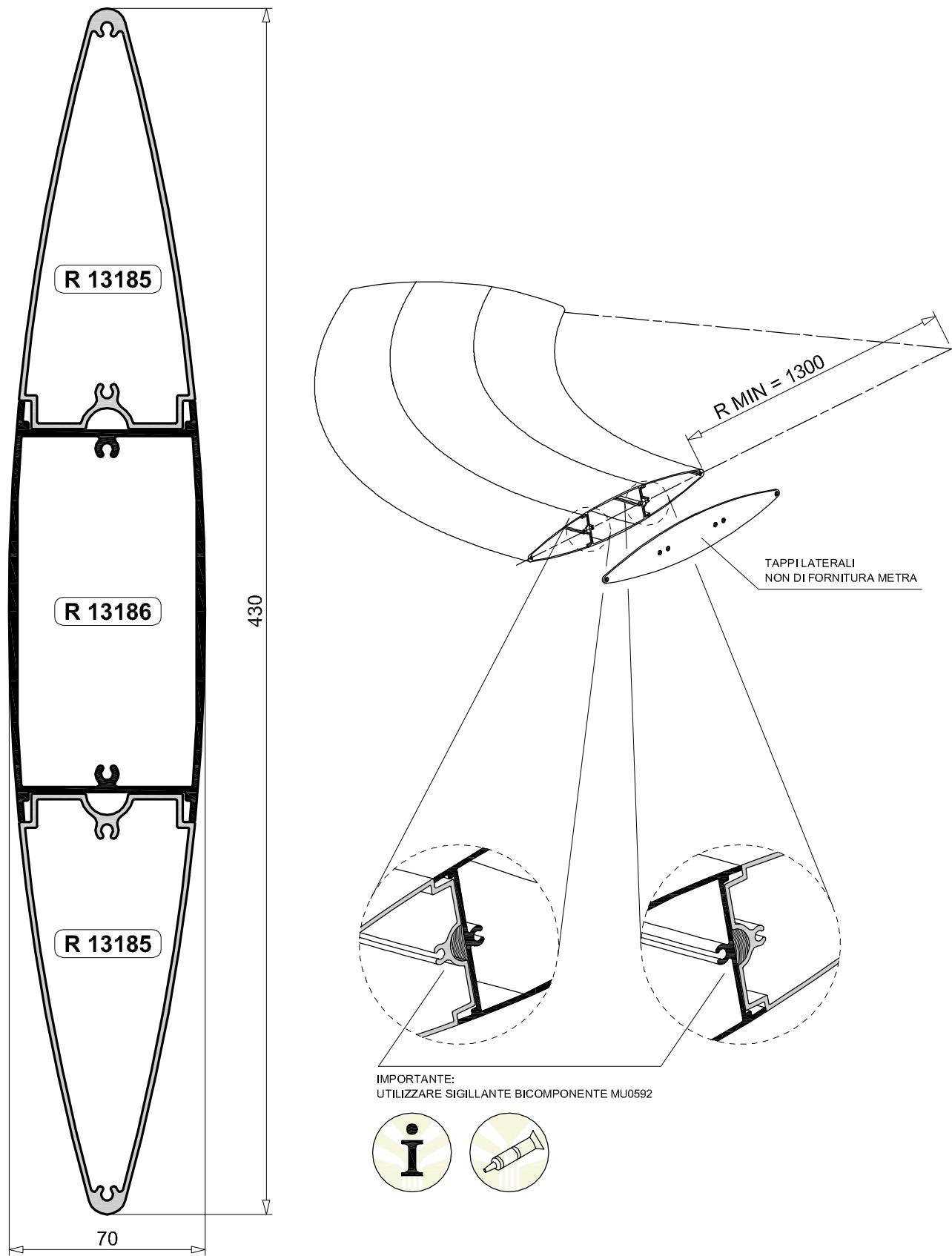
R 13186



SEZIONE	SIGLA	J_X J_Y	W_X W_Y	IMPIEGO
	PESO kg/m	cm ⁴	cm ³	
	R 13186	251.004 2.832	33.467 24.487	LAMELLA FRANGISOLE
PERIMETRO mm			PERIMETRO IN VISTA mm	
467			— — — 302	

NOTE: Profilato a basso consumo, verificare la classe di appartenenza

OGGETTO: LAMELLA FRANGISOLE SPECIFICA PER CALANDRATURA
ASSEMBLAGGIO PROFILATI

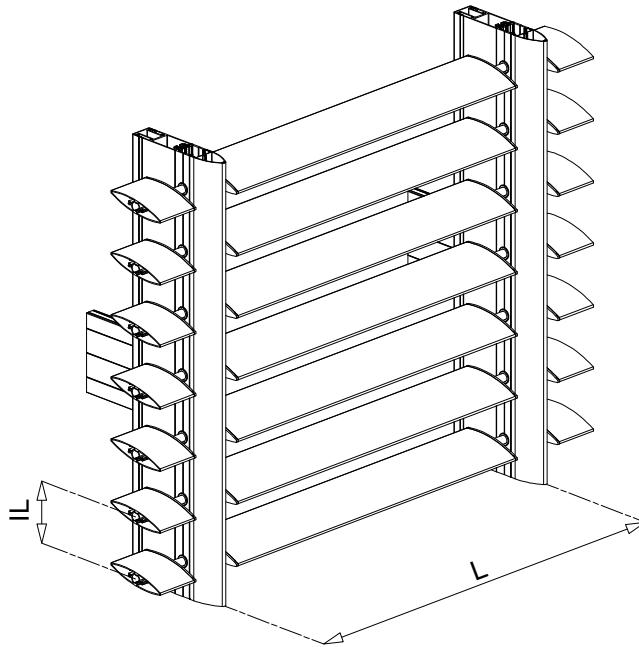


NOTE: Profilati a basso consumo, verificare la classe di appartenenza

OGGETTO:ATTUATORE UNIVERSALE MA2577
LIMITI D'UTILIZZO FRANGISOLE ORIZZONTALE

**LIMITI DI UTILIZZO ATTUATORE
TIPOLOGIE ORIZZONTALI**

**ACTUATOR UTILISATION LIMITS
HORIZONTAL SOLUTIONS**



L = Lunghezza massima lamelle
IL = Interasse lamelle (vedi tavola Em 06)

L = Blades maximum length
IL = Blades interaxis (refer to table Em 06)

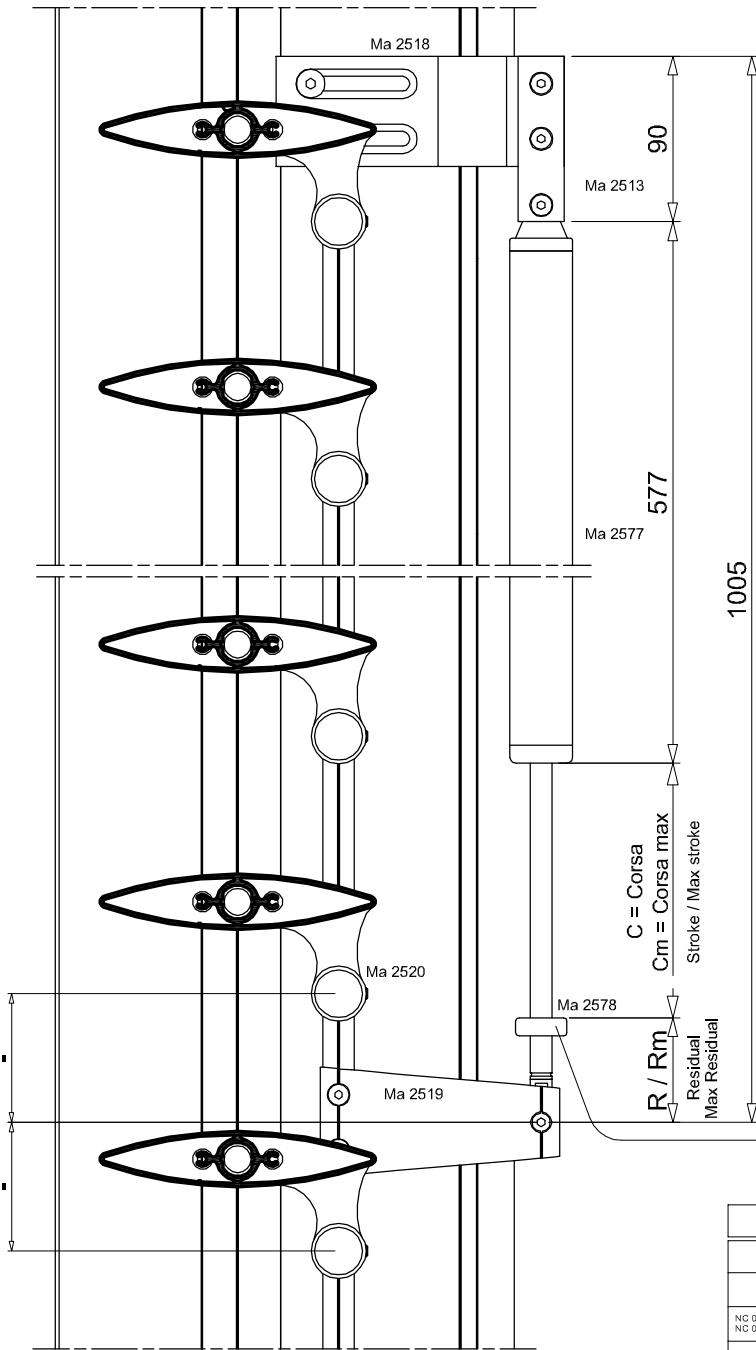
Lamella Blade	Larghezza Width	Carico - Load (kg/m ²)						Attuatore Actuator
		50	80	120	150	200	300	
NC 0300	100	L m ² 19	2400 13	2300 9	2000 7	1900 5	1700 4	650 N
NC 0301	150	L m ² 20	2700 20	2700 13	2400 11	2200 8	2000 6	650 N
NC 0304	225	L m ² 20	3100 20	3100 13	3100 11	2900 8	2600 6	650 N
NC 0307	300	L m ² 20	3500 20	3500 20	3500 18	3300 15	3000 11	2600 8
NC 0308	300	L m ² 20	3100 20	3100 20	2900 18	2700 15	2400 11	2100 8
NC 0310	450	L m ² 20	4200 20	4200 20	4200 20	4200 16	3700 11	650 N
NC 0313	300	L m ² 20	3500 20	3500 20	3500 18	3300 15	3000 11	2600 8

NOTE:

Sostituisce tavola 64 Em 01 con data 06/07/2004

OGGETTO:
CORSA ATTUATORE UNIVERSALE MA 2577

MOVIMENTAZIONE LAMELLE
BLADES MOVEMENT



Accessori per la movimentazione
Accessories for movement

Necessari Necessary	Opzionali Optional
Ma 2513	Ma 2579
Ma 2518	Ma 2580
Ma 2519	Ma 2581
Ma 2577	Ma 2582
Ma 2578	Ma 2583
	Ma 2584

Ordine di fissaggio
Fixing order:

- 1 Fissare Ma 2519
Fix Ma 2519
- 2 Posizionare le lamele in apertura
Place the blades in opening position
- 3 Posizionare l'attuatore in apertura
Place the actuator in opening position
- 4 Collegare Ma 2513 con Ma 2518 e fissare
Connect Ma 2513 with Ma 2518 and fix them
- 5 Fissare Ma 2578 secondo la relativa corsa
Fix Ma 2578 according to the stroke



Regolare limitatore corsa
Set stroke limiting device

Corsa C / Residuo R Corsa Cm / Residuo Rm
Stroke C / Residual R Stroke Cm / Residual Rm

Lamele Blades	C	R	Cm	Rm
NC 0300	99	239	120	218
NC 0301 NC 0304	129	209	163	175
NC 0307 NC 0313 NC 0308 NC 0316	173	165	219	119
NC 0310	232	106	300	38*

* Importante:
Residuo corsa max senza montaggio del limitatore Ma 2578.

* Important:
Residual max stroke without fitting of
the stroke limiting device Ma 2578.

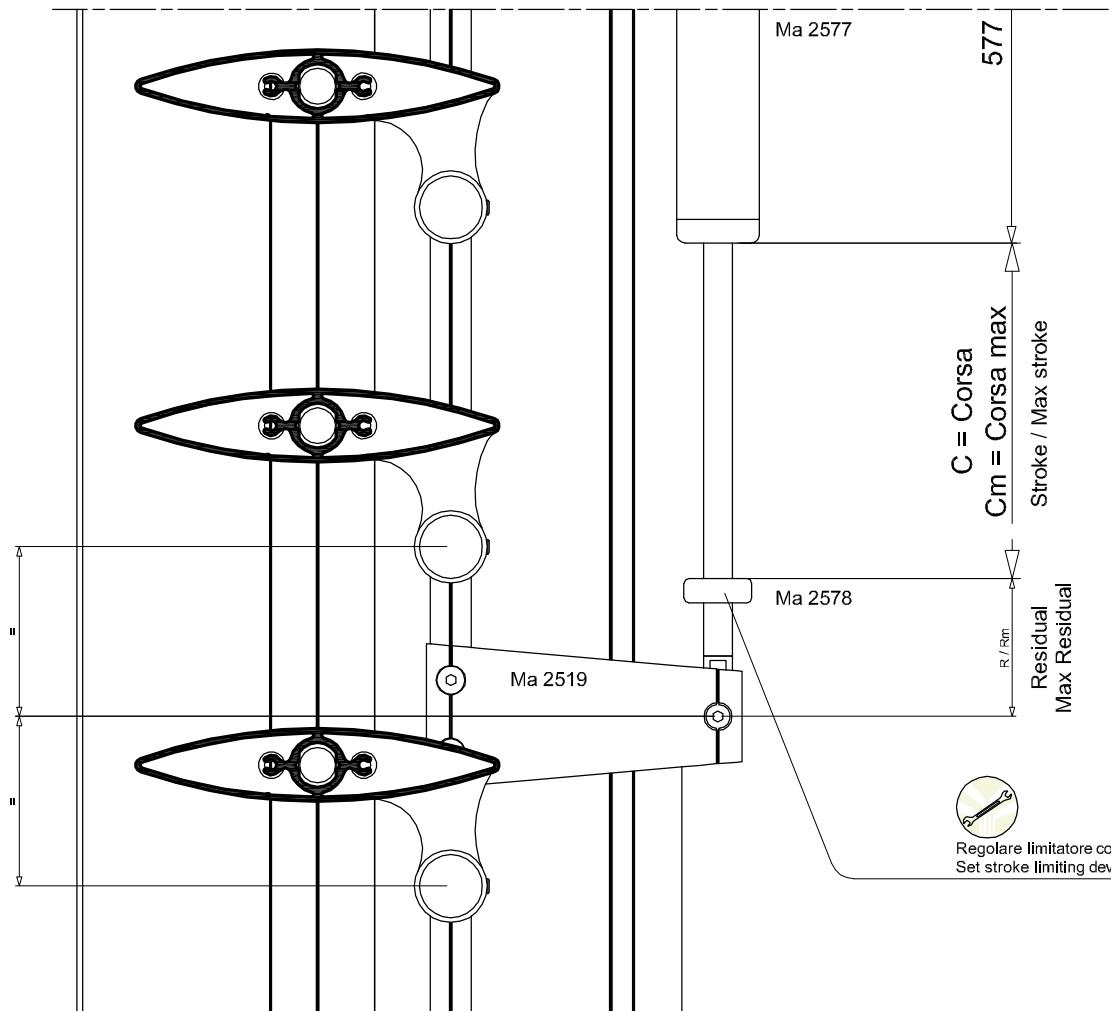
Posizionamento degli accessori per collegamento movimentazione
Positioning of the movement accessories

NOTE:

Sostituisce tavola 64 Em 05 con data 06/07/2004

OGGETTO:
CORSO ATTUATORE UNIVERSALE MA2577

MOVIMENTAZIONE LAMELLE
BLADES MOVEMENT
LIMITI ATTUATORE
ACTUATOR LIMITS



Lamelle Blades	Sagoma Shape	Largh. Length	Interasse Interaxis	Attuatore Actuator
NC 0300	→	100	90	Ma 2577
NC 0301	→	150	140	
NC 0304	→	225	215	
NC 0307	→	300	290	
NC 0308	→	300	290	
NC 0313	→	300	320 / 340	
NC 0316	→	450	440	
NC 0310	→	450	440	

Corsa C Stroke C	Residuo R Residual R	Limitatore corsa Limiting device
99	239	Ma 2578
129	209	
173	165	
232	106	

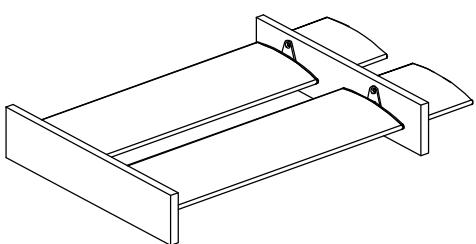
Corsa Cm Stroke Cm	Residuo Rm Residual Rm	Limitatore corsa Limiting device
120	218	Ma 2578
163	175	
219	119	
300	38	
	-	

NOTE:

Sostituisce tavola 64 Em 06 con data 06/07/2004



OGGETTO: TIPOLOGIA D5 - SOLUZIONE A LAMELLE INTERROTTE



D5

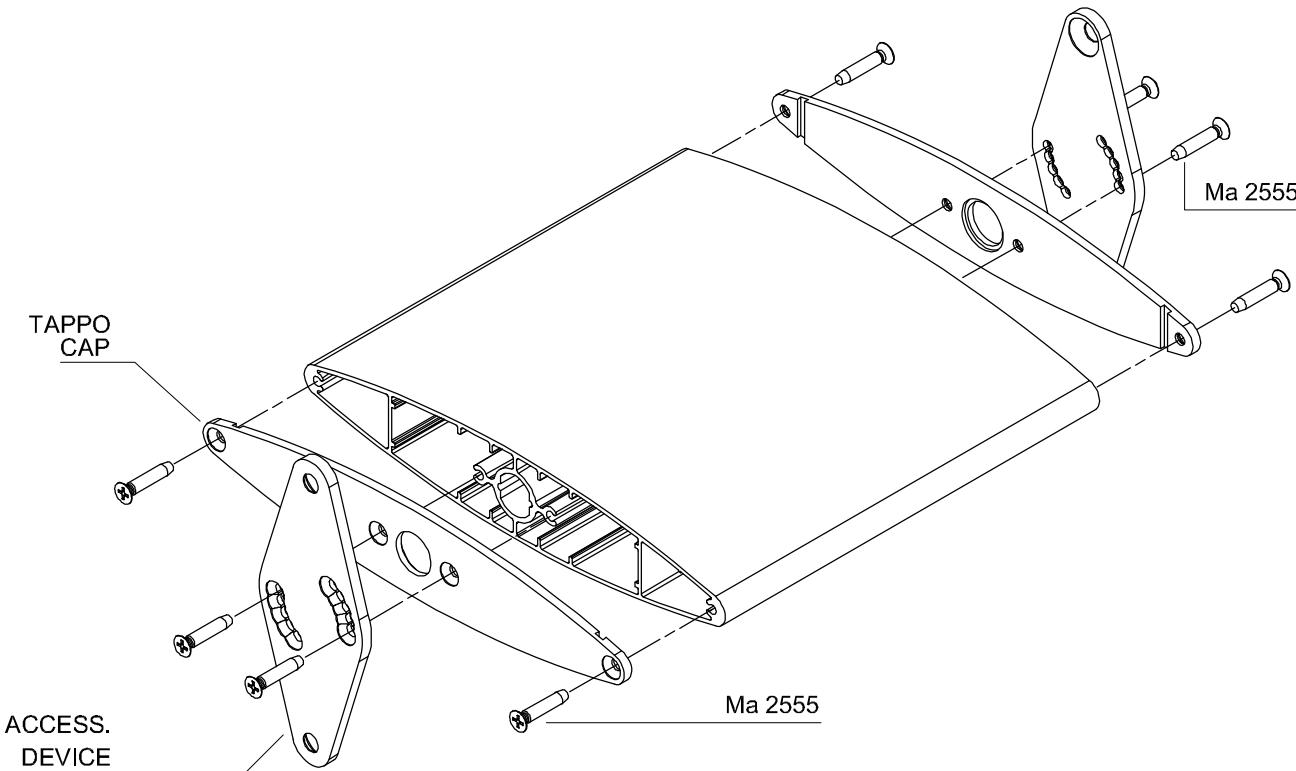
SOLUZIONE PER SOTTOSTRUTTURA - COMPONENTI
SOLUTION FOR UNDERSTRUCTURE - COMPONENTS
LAMELLA INTERROTTA - ANGOLI PRESTABILITI
INTERRUPTED BLADE - PRE-SET ANGLES



VERIFICARE LA PORTATA MASSIMA DELLE VITI Ma 2555
IN RAPPORTO AL PESO DELLE LAMELLE



MAXIMUM CAPACITY OF SCREWS MA2555 TO BE VERIFIED
IN RELATION TO THE BLADES WEIGHT



LAMELLA BLADE	LARGHEZZA LENGTH	Ma 2555 PZ PCS	TAPPO CAP	PZ PCS	ACCESS. DEVICE	PZ PCS
	NC 0300	100	4	Ma 2533	2	Ma 2531
	NC 0301	150	4	Ma 2535	2	
	NC 0304	225	8	Ma 2537	2	
	NC 0307	300	8	Ma 2539	2	Ma 2532
	NC 0308	300	4	Ma 2543	2	
	NC 0310	450	8	Ma 2541	2	
	NC 0313	300	8	Ma 2571	2	

NOTE: LAMELLE INTERROTTE
VEDI TAVOLE D5-02 a D5-11

**METRA**

AGGIORNAMENTI

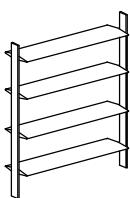
FEBBRAIO
2007

SERIE:

FRANGISOLE

SCHEDA N°
08

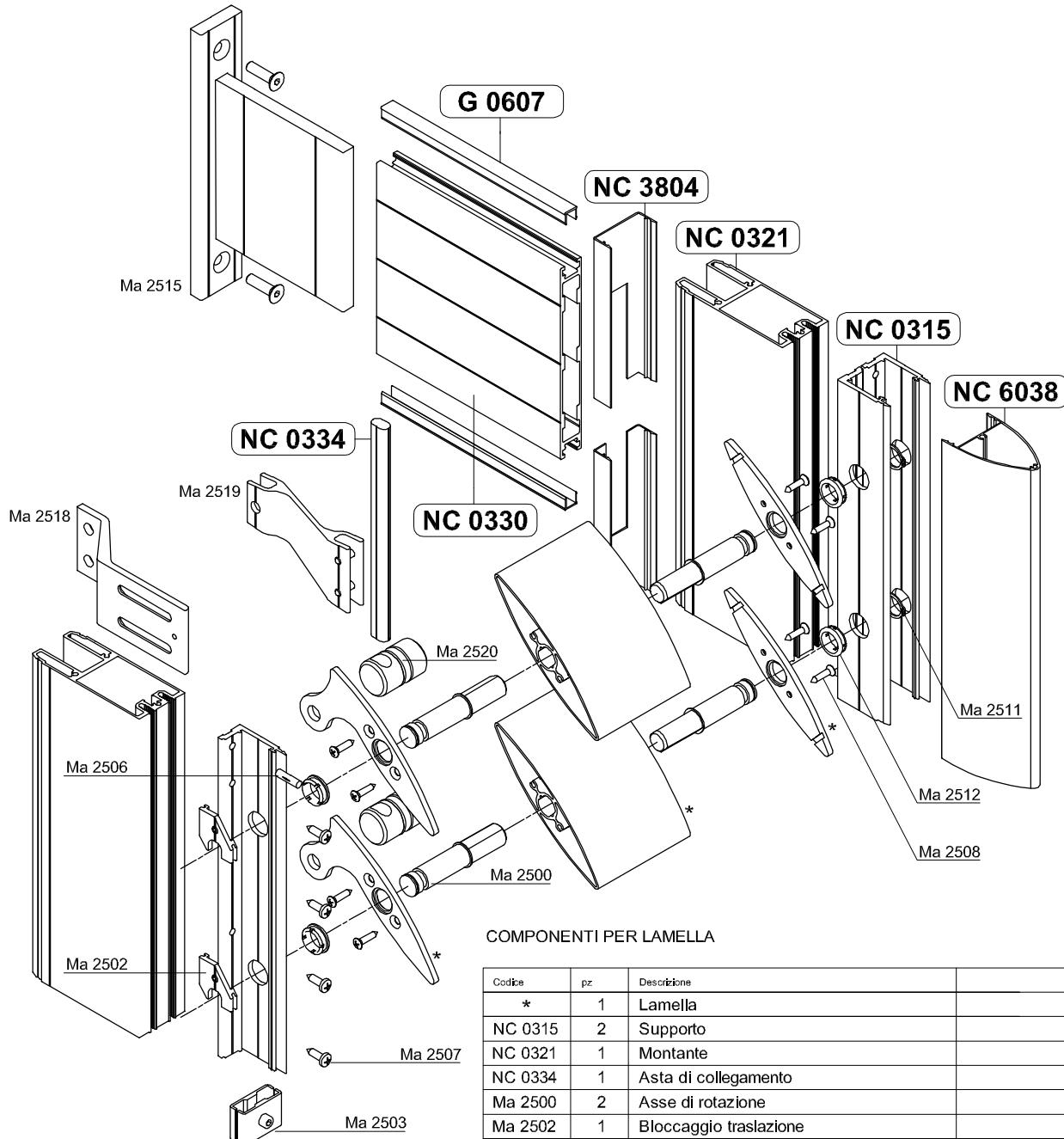
OGGETTO: TIPOLOGIA D1 - SOLUZIONE PER FACCIA E MURATURA



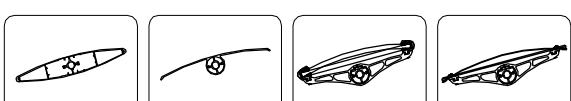
D1

ANGOLI VARIABILI

COMPONENTI



*: Vedi tavola 64E02



x: secondo i requisiti statici

NOTE:

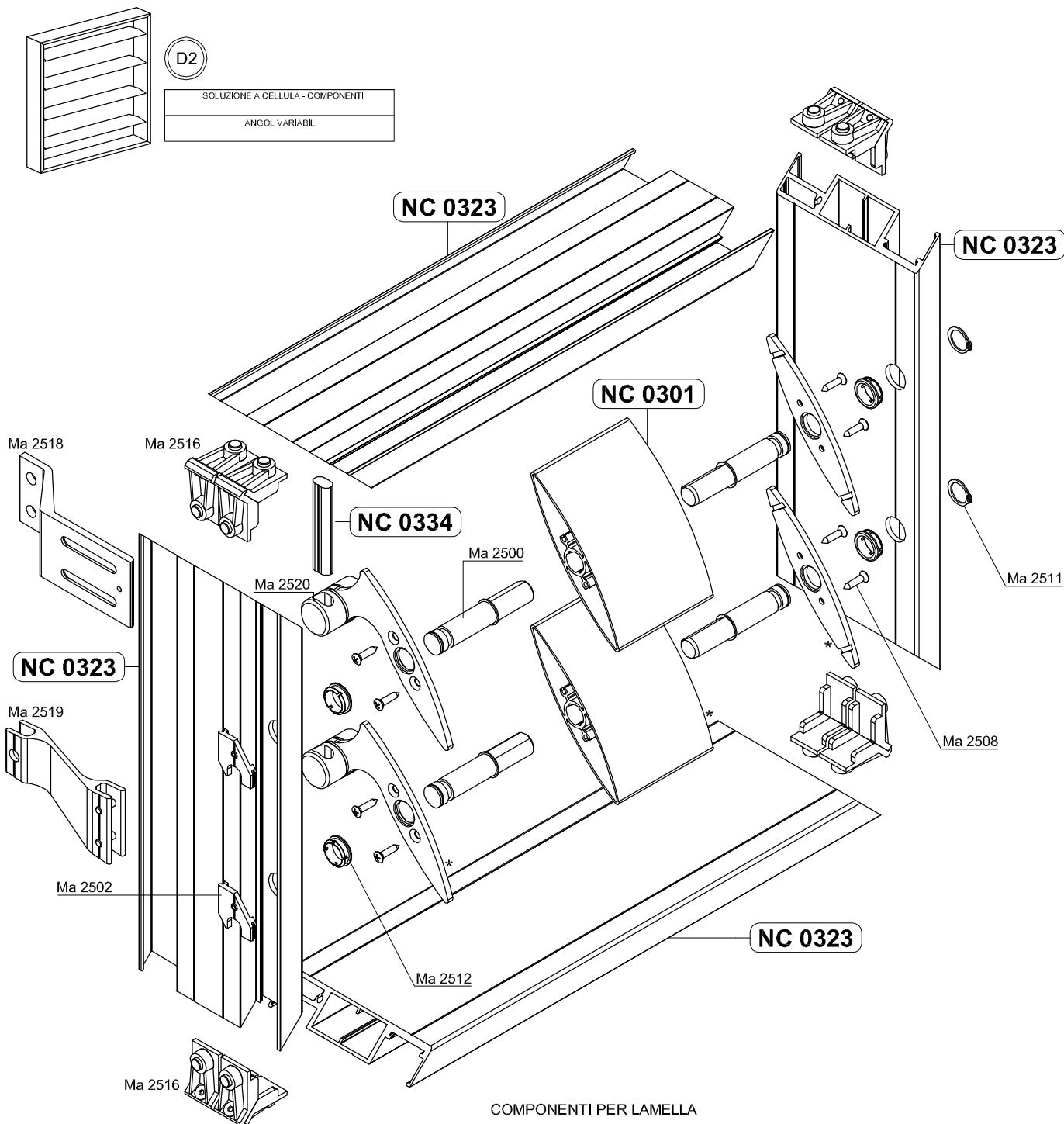
SOSTITUISCE SCHEDA 64-E07 DEL 06/07/2004

**METRA**

AGGIORNAMENTI

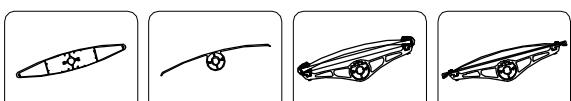
FEBBRAIO
2007SERIE:
FRANGISOLESCHEDA N°
09

OGGETTO: TIPOLOGIA D2 - SOLUZIONE A CELLULA



Codice	pz	Descrizione
*	1	Lamella
NC 0323	4	Montante
NC 0334	1	Asta di collegamento
Ma 2500	2	Asse di rotazione
Ma 2502	1	Bloccaggio traslazione
Ma 2508	4 / 8	Vite per Ma 2535
Ma 2511	1	Anello Seger per Ma 2500
Ma 2512	2	Boccola
Ma 2516	8	Squadretta
Ma 2518	1	Collegamento per movimentazione
Ma 2519	1	Kit di collegamento per movimentazione
Ma 2520	1	Kit di movimentazione
*	1	Tappo
*	1	Tappo

*: Vedi tavola 64E02



NOTE:

SOSTITUISCE TAVOLA 64-E23 DEL 06/07/2004



NOTE - NOTES