



ANNEX I - INSTRUCTION MANUAL

VERTEX MILESTONE - MAKE: JOPI
TYPE / VARIANT: N-120 // PE

2nd EDITION

Instruction Manual in application of the European Construction Products Regulation (EU) 305/2011

JOPI S.L.

PRODUCT DESCRIPTION: Vertex Milestone N-120		
TYPE	VARIANT	COMERCIAL DESIGNATION
N-120	PE	Vertex Milestone N-120

HISTORY OF EDITIONS	
28/02/2019	1st Edition of the Instruction Manual according to UE 305/2011
26/07/2022	2nd Edition of the Instruction Manual according to UE 305/2011

APPROVED BY	
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POSITION:	Production compliance manager
DATE:	7/26/2022



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1. PROLOGUE.

1.1. IMPORTANT NOTES



THE INSTRUCTION MANUAL IS PART OF THE PRODUCT, AND MUST BE DELIVERED AND KEPT WITH IT.

READ THIS MANUAL CAREFULLY BEFORE PERFORMING ANY TYPE OF OPERATION WITH THE PRODUCT VERTEX MILESTONE N-120



THIS MANUAL MUST BE READ BY ALL PERSONS AUTHORIZED TO INTERVENE IN ANY WAY IN THE INSTALLATION OF THE PRODUCT: VERTEX MILESTONE N-120



THE USE OF THE VERTEX MILESTONE N-120 UNDER CONDITIONS NOT FORESEEN AND/OR PROHIBITED BY THIS MANUAL CAN CAUSE SERIOUS DANGERS FOR THE WORKER, PEOPLE AND THINGS AROUND THE TEAM AND FOR THE TEAM. FOR YOUR SAFETY AND THE SAFETY OF THOSE AROUND YOU, USE THE PRODUCT ACCORDING TO THE INSTRUCTIONS PROVIDED IN THIS MANUAL

Notes:

- This manual may be modified without prior notice. To obtain the most recent version, contact: JOPI S.L. or with your nearest authorized dealer.
- In the process of constant improvement of its products, JOPI S.L. it reserves the right to introduce improvements in their equipment, without incurring the obligation to apply said improvements to previously manufactured products.
- JOPI S.L. is not responsible for any modification, repair or operation carried out on the product and/or its components, which has not been carried out or expressly authorized in writing by JOPI S.L.



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1.2. INTRODUCTION

Dear customer

The products manufactured by JOPI have the highest quality that, following these simple instructions, guarantee years of service at full performance and customer satisfaction.

This Instruction Manual contains all the basic instructions to be able to successfully carry out all the operations related to your new product during its useful life, from assembly and commissioning to its decommissioning. For this reason, the complete reading of this Manual is imperative, both by the buyer and by any worker authorized to use the product, in order to know all the aspects related to your product and guarantee a safe and problem-free use.

A copy of this Manual must always remain in the workplace of the product, accessible to authorized personnel at any time during its use.

The use of the in a way that is not authorized or prohibited by this manual supposes the cancellation of the guarantee on the product, since JOPI S.L. it only guarantees the correct operation of the same in the conditions foreseen and authorized in this manual.

Likewise, they are outside the guarantee provided by JOPI S.L. all those breakdowns attributable to a lack of maintenance or to maintenance carried out outside the instructions provided in this manual.

This instruction manual does not replace or annul any standard or regulation in force in this regard, compliance with which is the sole responsibility of the user of the product.

The staff of JOPI S.L. is at your disposal to answer any questions that may arise as a result of reading this manual. Our goal is total customer satisfaction with our products, which includes personalized attention.

In case of breakdown or malfunction of our products, our specialized staff will collaborate with you to solve them in the shortest possible time. In any case, prevent third parties from carrying out repair or maintenance operations on the product without the explicit written consent of JOPI S.L.



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2. GENERALITIES

2.1. GENERAL INFORMATION OF THE MANUFACTURER

JOPI S.L. is a company dedicated to the following activity: development and manufacture of parts, containers, and plastic products.

JOPI S.L. with V A T : B03173283, has its address at Calle del Pintor Sorolla, 20 and with telephone +34 965 564 468, Onil, Alicante, Spain.

The legal representative of the company is María Teresa Gutiérrez Navarro, as responsible for production conformity of the same.

2.2. COMERCIAL DESIGNATION

The designation of the vertex milestone N-120 by JOPI, is made by marking in the molding process of the milestone itself

2.2.1. MINIMUM INFORMATION FOR IDENTIFICATION

The minimum information that the engraving must show on each product is:

- * Lot Identification date
- * Type / variant
- * Compliance regulations
- * CE
- * JOPI

2.2.2. GRAPHIC DESCRIPTION OF THE PRODUCT MARKING

The marking of the product will at least mention the following aspects

Traceability of the production lot.
dd/mm/aaaa

Regulatory compliance
EN 12899-3:2007

Product
PE

2.2.3. PRODUCT IDENTIFICATION NUMBER

Assignment of an individualized number per unit of product does not proceed, the vertex milestone will be identified by manufacturing lot



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2.3. DEFINITION OF VERSIONS AND COMMERCIAL NAMES

Variants are defined based on their main characteristics

TYPE: <input type="text" value="1"/> / VARIANT <input type="text" value="2"/>				
	POSITION	DESCRIPTION	CODE	CHARACTERISTICS
TYPE	2	N-120		
VARIANT	2	COLOR AND CHARACTERISTICS	PE	GREEN
			PE	BLUE

2.4. DESCRIPTION

The product that is the object of this file are vertex milestones, to serve as signaling, guide or reference in singular areas of the road, especially in convergences, divergences and intersections.

It is designed for use as: vertex milestone, beacon elements, whose main function, of the beacons or signaling milestones, is to serve as a sign, guide or reference in singular areas of the road, especially in convergences, divergences and intersections

2.5. TECHNICAL CHARACTERISTICS

Below is a series of technical characteristics of the vertex milestone product

2.5.1. EXTERNAL MEASURES

DIMENSIONS	N-120
Height	125 cm
Width diameter	109 cm
Weight	14500 gr



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2.5.2. VICAT SOFTENING TEMPERATURE

VARIANT	°C (temperature)
Vertex Milestone N-120	114

2.5.3. DETERMINATION OF THE ADHERENCE TO THE SUBSTRATE OF THE RETROREFLECTIVE MATERIAL

VARIANT	(N) strength
Vertex Milestone N-120	2.7 – 3.6



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3. INTENDED CONDITIONS OF USE

It is mandatory that any person who intervenes in the equipment has read and understood this manual, so that safe use is guaranteed and dangerous situations do not occur.

Before intervening on the product for the first time, the user must be instructed by another user with accredited experience in the operations to be carried out, or by JOPI S.L. technical personnel.

You should also familiarize yourself with the product and its operation.

This product has been designed in anticipation of being used solely and exclusively for



BEACON ELEMENTS, WHOSE MAIN FUNCTION IS TO SERVE AS SIGNAGE, GUIDE OR REFERENCE IN SINGULAR AREAS OF THE ROAD, ESPECIALLY AT CONVERGENCES, DIVERGENCES AND INTERSECTIONS, and must not be used for any other purpose.

3.1. BASIC RULES FOR ITS USE

In order to guarantee the safety of users, other workers, the product itself and objects near it, the following general rules must be scrupulously followed:

	THE USE OF THE PRODUCT FOR ANY OTHER USE DIFFERENT FROM THOSE FORESEEN BY JOPI S.L. IS STRICTLY PROHIBITED.
	IT IS STRICTLY FORBIDDEN TO HANDLE THE PRODUCT BY UNAUTHORIZED PERSONS OR PERSONS WHO HAVE NOT READ AND UNDERSTOOD THIS MANUAL.
	IT IS STRICTLY FORBIDDEN TO MAKE ANY MODIFICATION TO THE PRODUCT WITHOUT THE EXPRESS WRITTEN AUTHORIZATION OF JOPI S.L.



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	IT IS MANDATORY TO CAREFULLY CARRY OUT THE PRODUCT MAINTENANCE PLAN DETAILED IN THIS MANUAL.
	THIS MANUAL SHOULD BE KEPT AT ALL TIMES AVAILABLE TO ANY USER OF THE PRODUCT.
	IT IS MANDATORY TO RESPECT THE PRODUCT ANCHORING SYSTEM
	THE USE OF ALL NECESSARY INDIVIDUAL PROTECTION EQUIPMENT IS MANDATORY.
	IT IS MANDATORY TO RESPECT ANY OTHER REGULATION OR LEGISLATION APPLICABLE TO THE PRODUCT AND ITS USE AND NOT CONSIDERED IN THIS MANUAL.
	IT IS MANDATORY TO PAY ATTENTION TO PEOPLE OR THINGS NEAR THE PRODUCT DURING ITS INSTALLATION.
	INSTALLATION AND MAINTENANCE, REPAIR OR ADJUSTMENT SHALL BE PERFORMED ONLY IF: 1. SAFETY MEASURES HAVE BEEN ESTABLISHED ON THE ROAD THAT ALLOW WORK WITH SAFETY CRITERIA



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3.2. INTENDED USE OF THE PRODUCT

JOPI's vertex milestone only intended for beaconing elements, whose main function is to serve as signage, guide or reference in singular areas of the road, especially in convergences, divergences and intersections.

JOPI's vertex milestone has been designed to work in the following conditions:

- ✓ Do not exceed the design limitations, especially in its anchoring form
- ✓ Use by duly trained and authorized personnel.
- ✓ Use of Personal Protection Equipment provided for in this manual
- ✓ Observe safety measures on public roads.



JOPI's vertex milestone is **NOT** DESIGNED FOR:

- Any other use not explicitly contemplated in this instruction manual.



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4. OPERATOR WORKSTATIONS.


The work station defined for the installation of the vertex milestone N-120 is, usually, the public highway.

For this reason, it is essential to be able to establish signaling measures for the area in which the work is carried out, as well as to establish the prevention measures that are necessary to guarantee the safety of the installer of the vertex milestone.

Personnel working in the vicinity of the product must be informed of its operation, normal operating sequences and restricted access areas, as well as possible residual risks, in order to carry out their work safely without influencing or being influenced by the work environment

4.1. PREVENTIVE MEASURES TO BE ADOPTED BY THE USER OF THE PRODUCT

Any user who performs the installation operations of the vertex milestones must also carry the following Personal Protection Equipment:

	Safety footwear according to EN ISO 20344:20215, Personal protection equipment. Test methods for footwear.
	Safety gloves according to EN 388:2016+A1:2018, Protective gloves against mechanical risks.
	Workwear according to EN ISO 20471:2013/A1:2016 High Visibility Clothing.
	EN 166:2001 - Eye and face protectors

The aforementioned signage must be installed in the work area in order to remind us of the mandatory use of Personal Protection Equipment.



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5. INSTRUCTIONS SO THAT THE OPERATIONS RELATED TO THE PRODUCT CAN BE CARRIED OUT WITHOUT RISK

5.1. GENERAL INSTRUCTIONS.

This instruction manual contains the basic instructions to be taken into account during the following phases:

- Assembly and installation.
- Maintenance, upkeep and repair

For this reason, it is mandatory that the manual be read and understood by personnel authorized to use the product. This manual must always be available in the place where the product is located at all times.

5.1.1. QUALIFICATION AND TRAINING OF STAFF.

Any person who performs any type of operation on the vertex N-120 beacon of JOPI must:

- Having read and understood this instruction manual.
- Have the appropriate complementary knowledge and training.
- Be instructed by experienced personnel, or have experience in the use of the product.
- Be authorized by the company, which guarantees compliance with the above points.

Any accident or breakdown derived from non-compliance with these points will be the sole and exclusive responsibility of the company that owns the product, and in no case of JOPI S.L.



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5.1.2. RISKS ARISING FROM NON-COMPLIANCE WITH THE INSTRUCTIONS



Failure to comply with the instructions detailed in this instruction manual can endanger people, things, and the product itself; likewise, it may lead to the cancellation of any right to claim damages.

As risks derived from non-compliance with the instructions are, without being limited to them:

- Damage to people, things or the product itself.
- Deterioration of product components.
- Premature wear of the components that are part of the product.
- Failure of the main functions of the product.
- Reduced product shelf life.

5.1.3. COMPLIANCE WITH REGULATIONS RELATED TO SAFETY AT WORK

To operate with the product, the instructions contained in this instruction manual, the current regulations, directives and legislation on accident prevention in the workplace, as well as any other internal instructions, must be taken into account.

In case of conflict between different standards, the person responsible for occupational risk prevention of the company that owns the product will be consulted.



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5.2. ASSEMBLY AND INSTALLATION INSTRUCTIONS.

A copy of this manual is provided with each lot of vertex milestones. It must be accessible at all times during the useful life of the product to workers authorized by the company to carry out operations on the product.

This manual must be properly preserved; in case of loss or damage, please contact us to obtain a copy.

It must be checked that the product is delivered without visible damage.

The weighting of the divergent beacon must be carried out with water or sand according to the following specifications:

* Water: Introduce water through the rear hole with a quantity of no less than 125l and no more than 150l, taking as reference the ballast level indicated on the beacon.

* Sand: Remove the rectangular segment located on the back whose center is the hole to introduce water. Add 150 Kg of sand with a recommended granulometry between 0 and 1.2 mm, not exceeding the ballast level indicated on the back of the beacon.

This manual must be properly preserved; in case of loss or damage, please contact us to obtain a copy.

It must be checked that the product is delivered without visible damage.

In relation to the assembly and placement of the cylindrical beacons in convergences and divergences, the arrangement of the vertex milestones N-120 depends on the geometric characteristics and the convenience of dissuading the crossing of the road markings.

Avoid placing metal washers or any other material that, in case of breakage or separation of the milestone, could cause damage to vehicles and people circulating on public roads.

For its placement, a specific road work procedure must be followed, signaling even if necessary, proceeding to cut off traffic, and using the appropriate Epis for this type of work.

- * Safety glasses
- * Safety globes
- * Retroreflective workwear
- * Protective Footwear

In case of detecting damage, these must be noted on the delivery note of the product.

The product must not be reused under any circumstances. Contact JOPI S.L. to process the product warranty.

Make sure that all packaging elements are properly processed and out of the reach of children.



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5.3. INSTRUCTIONS FOR MAINTENANCE, CONSERVATION AND REPAIR

Only correct maintenance can guarantee that the product has a long useful life. For this reason, revision and maintenance plans are established to guarantee that it is always in optimal conditions.

Similarly, instructions regarding the mode of action on the product are provided in order to ensure safety at all times.

Whenever maintenance and conservation work is carried out in which the bollard is required to be in a raised position, it must be empty and secured against any untimely lowering by means of a support.

General instructions for maintenance and conservation operations:

- They will only be carried out by authorized and duly trained personnel.
- All the instructions in this manual will be followed, in addition to those included in this section.
- The reviews that must be carried out by the buyer of the product are reduced to visual inspections to check the conservation and non-deterioration of the parts of the product, as well as its fixing to the ground.
- Preventive maintenance is reduced to a correct state of cleaning and fixation



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5.3.1. PERIODIC REVISIONS AND MAINTENANCE

Periodic reviews and maintenance will always be carried out observing the safety measures, with the appropriate tools and the applicable protective equipment.

5.3.2. MAINTENANCE PLAN

MAINTENANCE AREA	REVIEW OPERATIONS	MAINTENANCE OPERATIONS	PERIODICITY
milestone body	- Ballast level	Replenish, water or sand up to the recommended level.	6 months or that established for the maintenance of the track equipment
milestone body	- Verificatio of no deformations		6 months or that established for the maintenance of the track equipment
Retroreflective triangles	- Verification of the correct state of fixation		6 months or that established for the maintenance of the track equipment

5.3.3. MODIFICATIONS AND MANUFACTURE OF SPARE PARTS ON OWN ACCOUNT

It is expressly prohibited to make any type of modification without the express consent and authorization of JOPI S.L.

The manufacturer will not be responsible for units that present unauthorized modifications.

For your safety, the manufacturer recommends the use of original spare parts authorized by JOPI .

The use of unauthorized spare parts exempts JOPI S.L. of any associated liability.



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5.4. INSTRUCTIONS FOR PUTTING OUT OF SERVICE

If eventually it is necessary to perform the Decommissioning, you must carry out the following actions to avoid risks:

When a beacon is put out of service, you can also contact the technical staff of JOPI S.L., who will indicate the operations to be carried out to put the product out of service.

Special attention should be paid to:

- Do not leave loose elements that could come off.



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6. TRAINING.

With the comprehensive reading of this instruction manual, a basic level of training is pursued regarding the use and operation of the beacons that ensures safe and risk-free operation for users.

In preparing this manual, the insight and reasonably foreseeable behavior of users have been taken into account, so logic and common sense are appealed to when using the product.

The initial commissioning of the product is in turn a training act. It will be carried out by personnel authorized by JOPI S.L. accompanied by personnel intended to use the product, in order to instruct and familiarize them with the use and operation of the product.

The staff of JOPI S.L. They are experts who know their products, so they can provide answers to any type of doubt about any aspect of them.

In order to promote product safety, the user must let JOPI S.L. and to future users of incidents that arise during the use of the product, by recording them in the parts provided in this manual.

7. INDEX OF ANNEXES

- I. Report of interventions to complete and sign.
- II. Incident report.
- III. Declaration of Performance.



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INTERVENTION REPORT - Vertex Milestone -			
BRAND:	JOPI	TYPE:	N-120

CUSTOMER	
LOT NUMBER	RECEPTION DATE:
OFFER-CONTRACT:	
INSTALLATION PLACE	

DELIVERED	YES	NO
CE MARK		
DECLARATION OF PERFORMANCE		
INSTRUCTION MANUAL		
TRAINING		
OTHERS		

OBSERVATIONS

DELIVERY BY MANUFACTURER	RECEIVE CUSTOMER
Signed:	Signed:

MFG:
JOPI S.L. - VAT: ESB03173283
 Calle del Pintor Sorolla, 20 TELEPHONE: +34 965564468
 Onil, Alicante, Spain



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REPORT OF INCIDENTS
Vertex Milestone N-120

MANUFACTURER:
JOPI S.L. – VAT: ESB03173283

Calle del Pintor Sorolla, 20 - 03430 Onil - ALICANTE - TELEPHONE: +34965564468

REPORT OF INCIDENTS

Send us a completed copy of this part each time an incident occurs with your product.

CUSTOMER:

INSTALLATION PLACE:

RECEPTION DATE:

TYPE: N-120

VARIANT: PE

LOT NUMBER:

INCIDENT DATE:

LOCATION OF INCIDENCE:

INCIDENT DESCRIPTION:

CAUSES:

DAMAGE TO USERS:

DAMAGE TO THINGS:

PREVENTIVE/CORRECTIVE MEASURES ADOPTED:

On _____ at _____

Signed: _____



JOPI S.L C/ Pintor Sorolla 20, 03440, Onil, Alicante, España. Tfno 965 564 468

DECLARATION OF PERFORMANCE

Nº J032022

- 1 Unique identification code of the product type: **Vertex Milestone N-120 PE TYPE D1**
- 2 Intended uses: **Delineators complete with retroreflective devices affixed for information guidance, warning and channeling of road users.**
- 3 Maker: **JOPI S.L.**
- 4 System of evaluation and verification of the constancy of performance: **System 1**
- 5 Harmonized Standard: **EN 12899-3:2007**
- 6 Notified body: **1035**
- 7 Declared Performance:

Resistance to horizontal loads - WL2 - Pass

Performance under vehicle impact

(passive safety) - Pass

Dynamic impact requirement (material requirement): Pass

Dynamic impact requirement (functional requirement): Pass

Dynamic impact requirement (crash requirement): NPD

Visual performance (Delineator)

Chromacity coordenates - Pass

Luminancy factor - Pass

Visual performance (reflectors)

- **Daytime**

Chromacity coordenates: R1, class 3

Luminancy factor - Pass

Coefficient of Retroreflection: R1, class 3

- **Night-time**

Chromacity coordenates: R1, class 3

Luminancy factor - Pass

Coefficient of Retroreflection: R1, class 3

Durability - NPD

- 8 Specific Technical Documentation: **5930M.001.20180503**

The benefits of the products indicated above are in accordance with the set of declared performance. This declaration of performance is issued in accordance with Regulation (EU) No. 305/2011 under the sole responsibility of the maker identified above.

Signed for and on behalf of the maker:



María Teresa Gutiérrez Navarro
Onil September 22, 2022

www.plasticosjopi.com/DoP

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OF
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