

SAFETY CAGE SPECIFICATION

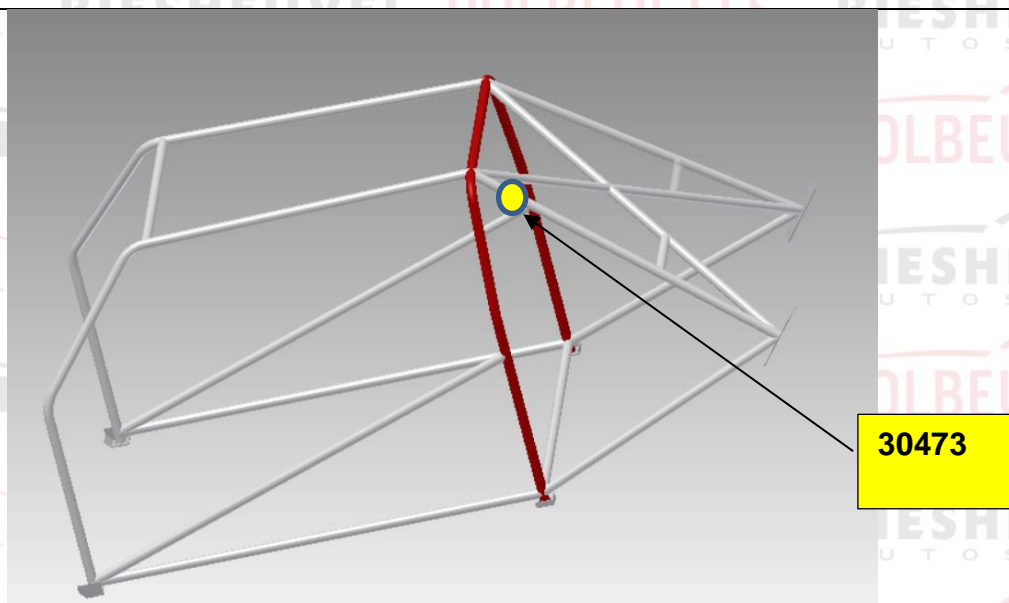
Biesheuvel Autosport is a  certified compagny for installations off roll-bars
This roll bar is built in under Annexe J artikel 253 self construction

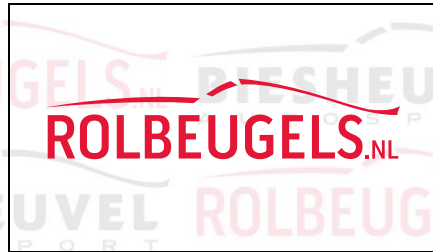
Safety Cage Manufacturer	Biesheuvel Autosport
Address	<u>Rijksweg 37</u> <u>4255 GE Nieuwendijk</u> <u>Netherlands</u>
Phone n° + Email	<u>0031 183 403400</u> <u>info@biesheuvel.nl</u>

The structure shown on this form is manufactured for the following vehicle:

Make	<u>OPEL</u>	Model	<u>MANTA</u>	Year/Model Identifier	<u>1978</u>
Vehicle Homologation Number(s)* *if applicable		<u>N/A</u>			

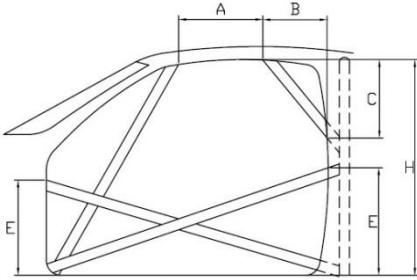
Drawing of front ¾ view of the Complete Structure showing the location of the identification plate





Biesheuvel Autosport Nr
30473

DETAILS OF STRUCTURE

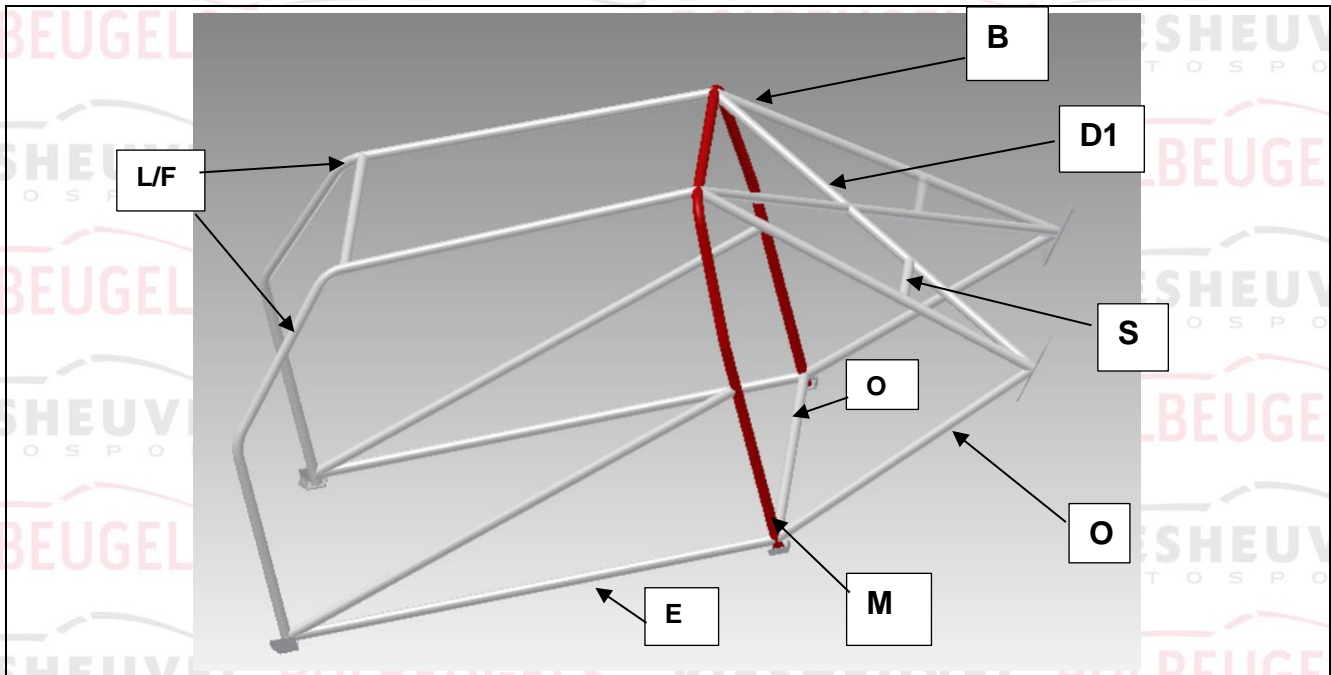


A = mm B = mm
C = mm E = mm
H = mm (E is highest figure only)

All Dimensions ± 5mm

Method of attachment to Body Shell	<u>Welded</u>
Weight of Safety Cage, inc. fastenings	<u>35</u> kg

LABELLED DRAWING OF THE SAFETY CAGE STRUCTURE SHOWING ALL TUBING DIMENSIONS



All Dimensions $\pm 0.1\text{mm}$		Show location of each type on drawing				
Tube / Member	Label	Grade of Steel	External Diameter (OD)		Wall Thickness	Min. Tensile Strength
Main Rollbar	<u>M</u>	<u>E235EN/10305-1</u>	45.0	mm	2.5 Mm	340 N/mm ²
Front/Lateral Rollbar	<u>L/F</u>	<u>E235EN/10305-1</u>	40.0	mm	2.0 Mm	340 N/mm ²
Backstays	<u>B</u>	<u>E235EN/10305-1</u>	40.0	mm	2.0 Mm	340 N/mm ²
Main rollbar Diagonal members	<u>D1</u>	<u>E235EN/10305-1</u>	40.0	mm	2.0 Mm	340 N/mm ²
Backstay Diagonal members	<u>D</u>	<u>E235EN/10305-1</u>		mm	Mm	N/mm ²
Roof Reinforcements	<u>C</u>	<u>E235EN/10305-1</u>		mm	Mm	N/mm ²
Doorbars	<u>E</u>	<u>E235EN/10305-1</u>	40.0	mm	2.0 Mm	340 N/mm ²
Windscreen Pillar Reinforcements	<u>C1</u>	<u>E235EN/10305-1</u>		mm	Mm	N/mm ²
Harness Bar	<u>S</u>	<u>E235EN/10305-1</u>	40.0	mm	2.0 Mm	340 N/mm ²
OPTIMAL TUBES	<u>Q</u>	<u>E235EN/10305-1</u>	40.0	mm	2.0 Mm	340 N/mm ²
OPTIMAL TUBES				mm	Mm	N/mm ²
				mm	Mm	N/mm ²
				mm	mm	N/mm ²
				mm	mm	N/mm ²
Total length of all tubes < 40 mm OD				mm	15 m maximum	

PHOTO 1
FRONT ¾ VIEW OF CAGE



PHOTO 2
REAR ¾ VIEW OF CAGE



PHOTO 3
VIEW FROM SIDE OF CAR



PHOTO 4
MAIN ROLLBAR TO FLOOR ATTACHMENT



PHOTO 5
REAR BACKSTAY TO BODYSHELL ATTACHMENT



PHOTO 6
FRONT ROLLBAR TO FLOOR ATTACHMENT



PHOTO 7
FRONT ROLLBAR TO "A" PILLAR ATTACHMENT



PHOTO 8
MAIN ROLLBAR TO "B" PILLAR ATTACHMENT



PHOTO 9
ATTACHMENT TO FRONT SUSPENSION



OTHER DETAILS OF CAGE



PHOTO 10
ANTI-INTRUSION DOORBAR – DRIVER



PHOTO 11
ANTI-INTRUSION DOORBAR – CO-DRIVER



PHOTO 12
SHOULDER HARNESS ATTACHMENT -DRIVER



PHOTO 13
SHOULDER HARNESS ATTACHMENT-CO-DRIVER



PHOTO 14
DETAIL OF IDENTIFICATION PLATE



PHOTO 15
OTHER DETAILS OG CAGE

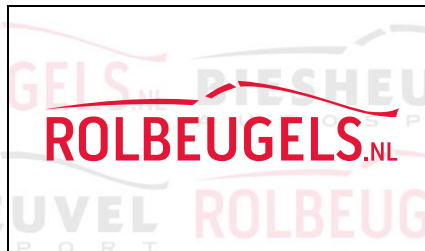


PHOTO 16
OTHER DETAILS OF CAGE



PHOTO 17
OTHER DETAILS OF CAGE





Biesheuvel Autosport Nr

30473

V.I.N. or Chassis Identification Number	<u>5885127992</u>
Safety cage identification Number	<u>30473</u>

MANUFACTURER'S DECLARATION AND DETAILS:

I declare that the Safety Cage Structure described on this form and fitted to the vehicle described above:

- was constructed and installed in accordance with the specifications and design shown herein.
- has been manufactured so that all aspects of the Safety Cage design, including configuration and strength requirements and welded and demountable joints and mountings, will be in conformity with the requirements of the FIA Homologation Regulations for Safety Cages.
- has been identified by an engraved plate bearing the name or logo of the manufacturer, the ASN Certificate number and a unique manufacturer's serial number.

Manufacturer's Name	<u>Biesheuvel Autosport</u>	Insert Manufacturer Stamp here
Address	<u>Rijksweg 37</u> <u>4255 GE Nieuwendijk</u> <u>Netherlands</u>	
Phone n° + Email	<u>0031 183 403400</u> <u>info@biesheuvel.nl</u>	
Signature:	Insert signature here	
Name of Signatory#:	<u>N Biesheuvel</u>	

MANUFACTURER'S AGENT: (For Safety Cages installed by an Agent)

The following Agent is authorised to act on the manufacturer's behalf to install this Safety Cage design.

Agent's Name	<u>GB Metaal Techniek</u>
Address	<u>Bredesteeg 2</u> <u>4255 GH Nieuwendijk</u> <u>Netherlands</u>
Phone n° + Email	<u>0031 622607952</u> <u>info@rolbeugels.nl</u>

Instructions to the installer of the Safety Cage

--

