REDIWELD

Technical
Moulding

Rediweld Technical Moulding
6-9 Newman Lane
Alton Hampshire
GU34 2QR
t. 01420 543007
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moulding@rediweld.co.uk
www.rediweld.co.uk/moulding

Rediweld & Connected Kerb
'Gecko Assembly'
Quality Document (Rev 01)
June 2020

CONNECTED KERB

REDIWELD Technical Moulding

Contents

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REDIWELD Technical Moulding

Project Scope

Design Brief:

From an initial meeting with Connected Kerb (the customer) & taking into consideration a moderate introductory sketch provided by them at the opening meeting. Rediweld set about brainstorming conceptual ideas to offer a range of potentially & suitable 'Post Mounted Product' options. Each option featuring different style of part geometry & ergonomic aesthetics in keeping with its desired use & sympathetic to certain surroundings.

The project Scope on behalf of Connected Kerb is to generate a selection of 'Product Range' best suited to the criteria for EV Charging units, design, developed and manufactured to support parked vehicles on the streets within certain communities. A more detailed approach was needed on the 'Gecko Assembly' as so took priority first. Connected Kerb invited Rediweld to develop a 'Post' mounted Electric Vehicle Charger for municipal use in the public domain.
The unit needed to be a Low Cost, Recyclable product designed for ease of manufacture and would be situated and function on the streets, therefore demanding to be robust and durable, with good environmental characteristics such as; impact, weathering, chemical and UV resistance properties. Material selection is of upmost importance when considering a working product in many different types of suburb situations.

A well-matched material is to be selected to endorse most of these requirements for those reasons & more particularly for; excellent UV capabilities, low moisture absorption, good dimensional and low warpage stability as the component needs to be well designed with uniform wall section. These extra properties help to ensure good process & product capability & conformity when considering; design, development, manufacturing & assembly of the product too in maintaining excellent fit, form & function, eliminating the risk of product fatigue & failure when in service.
From the outset, the criteria agreed is to accommodate a specific type, style and size of 'Charge Socket' with integrated shutter & automated locking system for security on the device and a bespoke Wi-Fi / RFID Contactless Circuit Board. The device needed to be kept compact and yet still retain and shroud these vital & important components, but more importantly it had to have the facility of being load bearing & Mounted to a ø76mm fabricated Steel tube (Powder Coated) post. Of which one from below was selected by CK.

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REDIWELD Technical Moulding

Project Scope

Design Brief & Product Development:

The design developed from a single piece part into a hinged clamshell design. The general wall section is a generous 5mm to give a very rigid and durable assembly, further strengthened with a reinforced double skin wall to bolster the casing around the delicate electrical components, as well as offering a second layer of defence to the internal components should the outer skin become damaged.

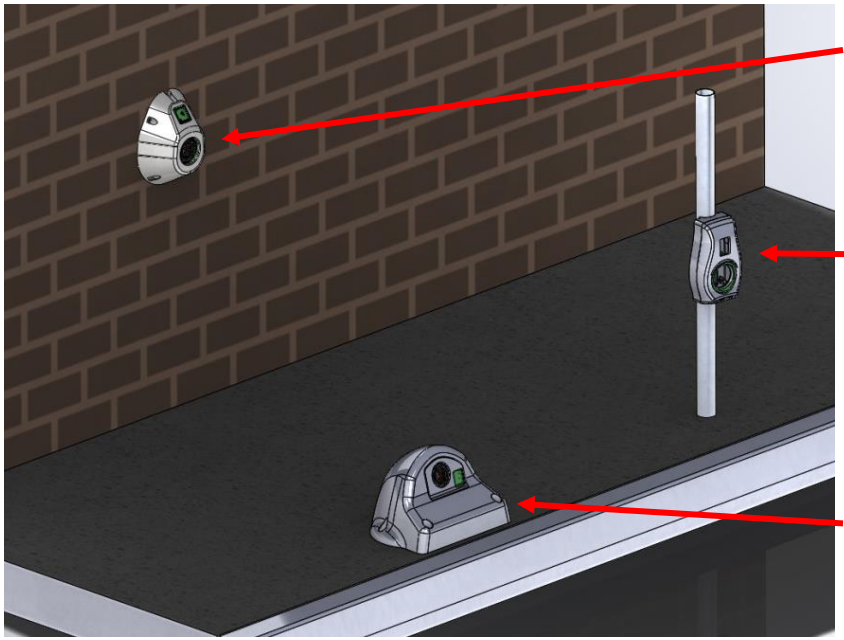
REDIWELD Technical Moulding

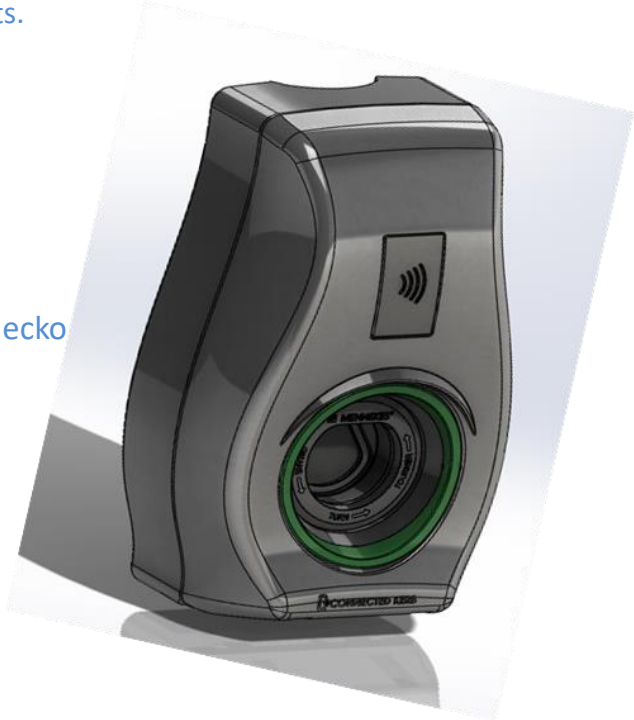
Project Scope

Design Brief & Product Development:

This was refined & developed into the Gecko that Rediweld is manufacturing today. From then on, each component item became a critical item to design to ensure that tooling and part cost is kept to a minimum & to budget.

Utilising adequate product draft, making sure that uniform wall section is maintained throughout the item to limit or reduce product distortion and to sustain a good fill /flow pattern during the moulding stage. Designing a component from concept is the perfect opportunity for considering design for manufacture and assembly keeping a component design in-line-of-draw will help to keep Tooling costs to budget and reducing the number of moving actions to a minimum within tooling helps to preserve and maintain the tool much longer without regular need for serviceable wear & tear. This was another opportunity for saving costs when being designed correctly, but does at times open up challenges within the design when considering that parts are to be assembled together too with ease & practicality. More importantly when considering installation & servicing on the streets.





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Company Activities and Context of the Organisation

Company activities:
Rediweld Rubber and Plastics Limited provides under:

a) "Rediweld Traffic" the manufacture and installation of Traffic Management and Site Safety Products for on and off highways;

b) "Rediweld Technical Moulding" Plastic and Rubber" injection and Compression mouldings for Commercial, Aerospace, Defence, Medical and Fluids;

Context "Rediweld Traffic Products"
The company operates in the Traffic Management and Site Safety market, selling its products throughout the UK, as well as in Europe and the USA. The environment it operates in is for public highway and commercial off highway, which are both highly competitive. Rediweld has a wealth of knowledge in designing and manufacturing traffic products. These are made in Alton, Hampshire. Rediweld also offers an installation service with its own in house installation team. For customers who want to do the installation themselves, Methods Statements and Risk Assessments are provided. Rediweld employees are competent in carrying out both the manufacturing and installation work undertaken, in order to meet customer expectations. Rediweld traffic products are mostly surface mounted for ease of installation with no excavation required. These products are made from recycled rubber which is durable and long lasting. Rediweld complies with the regulations for this type of product and its installation.

Context "Rediweld Technical Moulding"
Rediweld is a specialist manufacturer of Thermoplastic, Thermoset/Composite and Rubber mouldings to technology sectors and has been involved in supplying the aerospace, defence, electronics, medical and commercial industries for many years. The services offered go from design support and new products introduction, to injection and compression moulding (Thermoplastic, Thermoset/Composite and Rubber), as well as machining, finishing, assembly and testing. Rediweld processes engineering grade materials such as Nylon, Polycarbonates, PBT's, ABS, ABSPC as well as High Performance grades such as PEEK, PES, PEI & PPS along with specialised additives to enhance all of these materials.
Rediweld operates within a highly competitive environment with a focus on Customer expectations looking to added value business opportunities in providing finished product.

The Context of the Organisation is the Input for our Business Planning process. The process is detailed in our Business Planning Procedure covering external and internal issues.

Interested Parties

Our quality management system is required to consistently meet customer and applicable regulatory requirements as well as those from employees and external providers.
The requirements of the interesting parties have been identified and they are also reflected in our Business Planning.

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Technical Moulding

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a) Interested Parties Technical Moulding

Item No.	Interested Parties	Requirements
1	Customer Direct receipt of products	On time delivery
		Right first time
		Comply with requirements incl. Quality
		Competitive Pricing
2	Employees Responsible for realization of products	Provide training
		Job stability
		Create safe working environment
3	External Providers	Capabilities - on time & right first time
		Stable pricing
		Technical Support
4	Regulators Dictate controlling regulators that impact on the management system and our products	Compliance with laws
		Employees are at least paid the minimum standard wage
		Employees working hours meet legal requirements
5	Shareholders Investment	Return of Investment
		Growth & continuation of the business

b) Interested Parties Traffic

Item No.	Interested Parties	Requirements
1	Customer Direct receipt of products	On time delivery
		Right first time
		Installation including H&S requirements
		Competitive Pricing
2	Employees Responsible for realization of products	Provide training
		Job stability
		Create safe working environment
3	Providers Provide supporting services or raw material	Capabilities - on time & right first time
		Stable Pricing
		Technical Support
4	Regulators Dictate controlling regulators that impact on the management system and our products	Compliance with laws
		Employees are at least paid the minimum standard wage
		Employees working hours meet legal requirements
5	Shareholders Investment	Return of Investment
		Growth & continuation of the business

Quality Document - Policy

QMS conformance and scope

1) Scope
The scope of the Quality Management System is set according to the customer requirements and expectations.

1.1 Scope “Rediweld Traffic Products”
Design, manufacture and installation of traffic management and site safety products.

According to all requirements of ISO 9001:2015.

1.2 Scope “Rediweld Technical Moulding”
Moulding, machining and assembly of rubber and plastic products, to customer specification.

Design and Development clause 8.3 is not applicable as we work to customer drawings and specifications. No products or external services are required to be designed and developed per clause 8.3 in order to confirm to customer or regulation requirements. No additional services are provided beyond products being designed.

Quality Objectives

The Management Team determine and agree realistic Quality Objectives in support of the Company’s Quality Policy Statement.

Management Reviews are used to review the performance against the agreed objectives to measure the effectiveness of the system and for continual improvement.

The company’s quality objectives are listed under Annex H of this document.

Risk and Opportunities

Our Business Risk and Opportunities have been determined. To identify business risks & opportunities the following tools have been applied:

Business Planning Process
SWOT analysis (Strengths, Weakness, Opportunities, Threads)
5 M analysis of the business (Machines, Materials, Manpower, Method, Measurement

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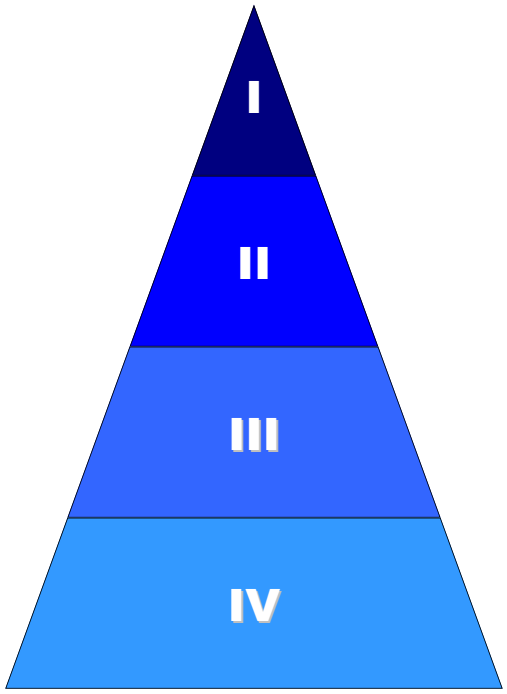
Technical Moulding

Quality Document - Policy

Structure of quality management system



Level I
Policy manual and Business Processes

Level II
Documented procedures
Defined Processes

Level III
Detailed Instructions
Route Cards (Technical Moulding)
Forms Templates

Level IV
Filled Forms
Records

The organization's quality system supports its policy and objectives and is focused on delivering products and services that enhance customer satisfaction through profitable production.

Organizations Identified Processes

The organization's identified processes are operated under controlled conditions and are monitored, measured and analyzed to ensure ongoing effectiveness and efficiency via the Business Planning Process (LV1-Process Title 7: Business Planning).

The next pages show the interaction between the processes of the QMS followed by the documented procedures for:
Rediweld Traffic – Business Processes
Rediweld Technical Moulding – Business Processes

The core processes are different due to the scope, nature of products, processes used and customer requirements.

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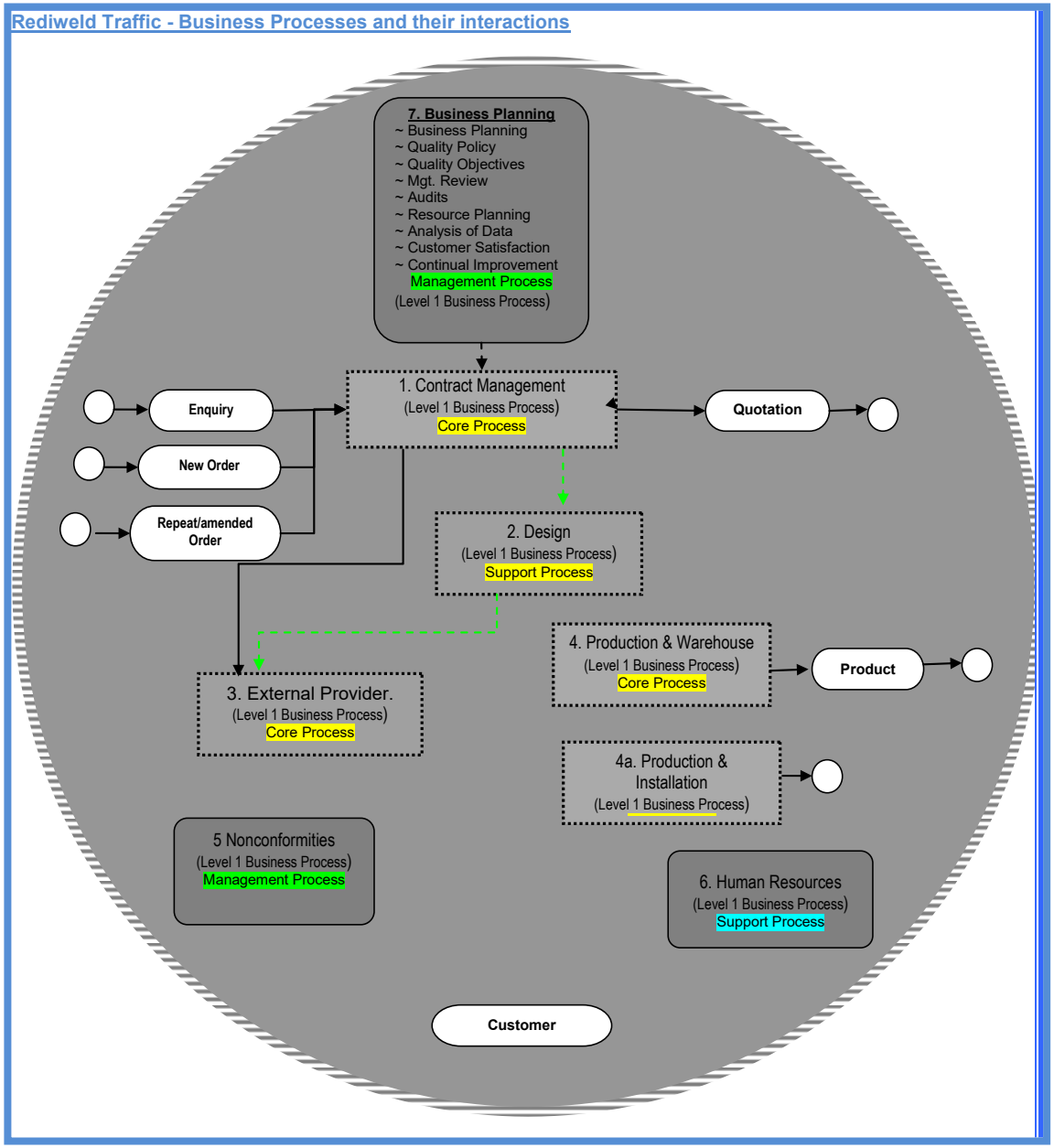
Moulding

Quality Document - Policy



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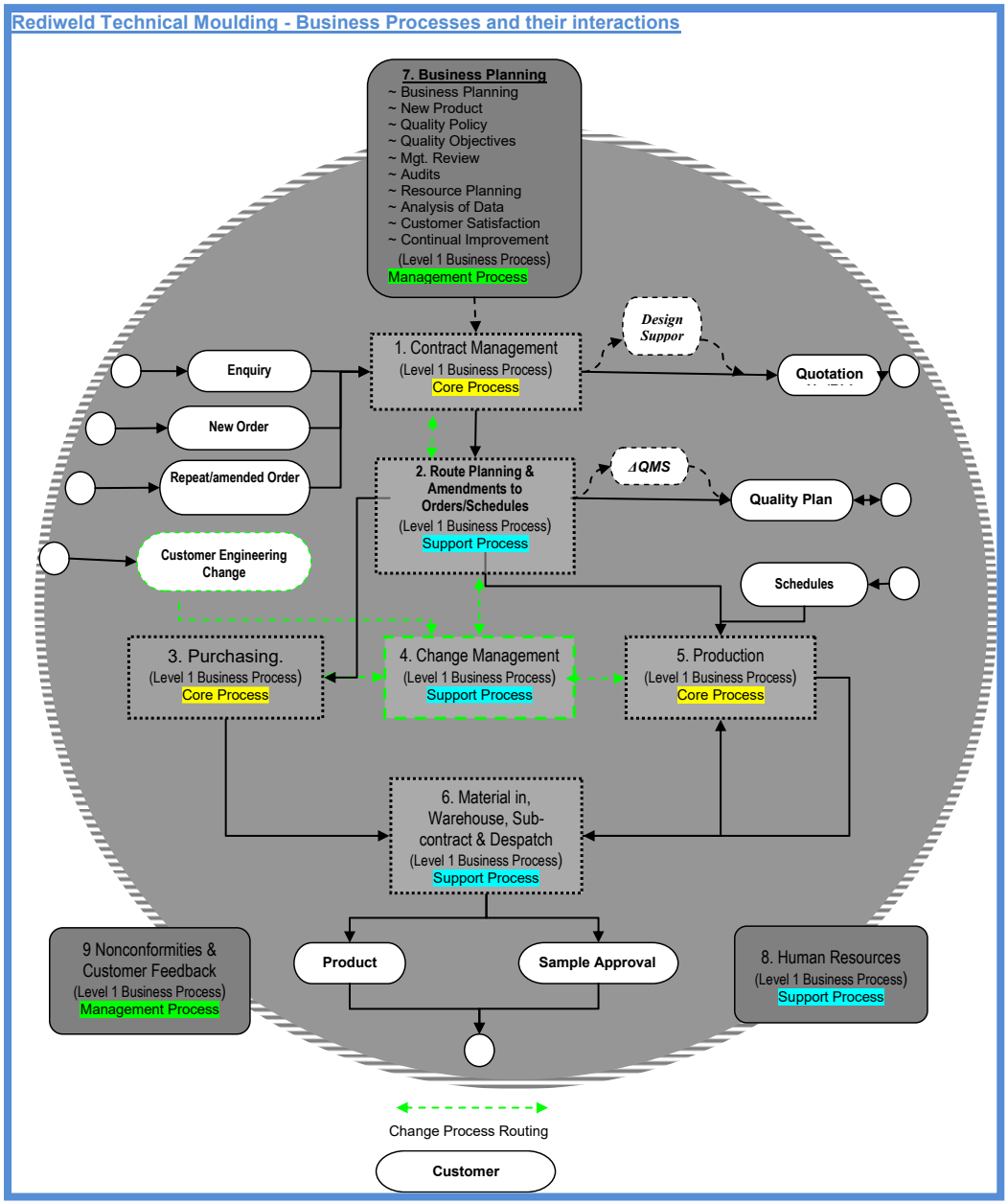

REDIWELD Technical Moulding

Quality Document - Policy

Document Ref No.	*Issue*	*Business Processes*
T1	1	Contract Management Traffic & Technical Moulding Division
M&T2	4	Design and Design Support
T3	2	External Provider Traffic
T4	2	Production Traffic
M&T7	6	Business Planning
M&T6	5	Human Resources
M&T5	6	Non-conformities and Customer Feedback

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AS/EN9100

Document Ref No.	*Issue*	*Documented procedure*	Standard Cross Reference
4.01	2	Business Systems Documents	7.5.2 & 7.5.3
4.02	2	External Documents & Software Control	7.5.2 & 7.5.3
4.03	3	Control of Records	7.5.2 & 7.5.3
4.04	2	Configuration Management	*8.1.2*
4.05	2	Planning & Process Effectiveness (Risk Management)	8.1
4.06	3	Engineering Changes	8.5.1
4.07	1	Development of Strategic Business planning	4.1
7.01	1	Control of Production Equipment, Tools and CNC Programming	8.5.1.1
7.02	1	Customer Supplied Product	8.5.3
7.03	3	Calibration	7.1.5
8.01	7	Internal Audits	9.2
8.02a	8	Internal Non-Conformance Item Control	8.7
8.02b	5	Non-Conformance Analysis & Corrective Action	10.2
8.04	6	First Article Inspection	8.5.1.3
8.05	2	Product Rework	8.7
8.06	1	Customer Free Issue Material	8.5.3
8.10	3	Competence, Awareness and Training	7.2 & 7.3
8.11	2	Tooling Assessment & Maintenance.	8.1 & 8.5.1
8.12	2	Foreign Object Debris (FOD)	8.5.1
8.13	1	Toolroom Equipment Maintenance	8.1 & 8.5.1
8.14	2	Counterfeit Material	8.1.4
8-15	N/A	Draft – not released	
8-16	1	Key Characteristics Process Overview.	

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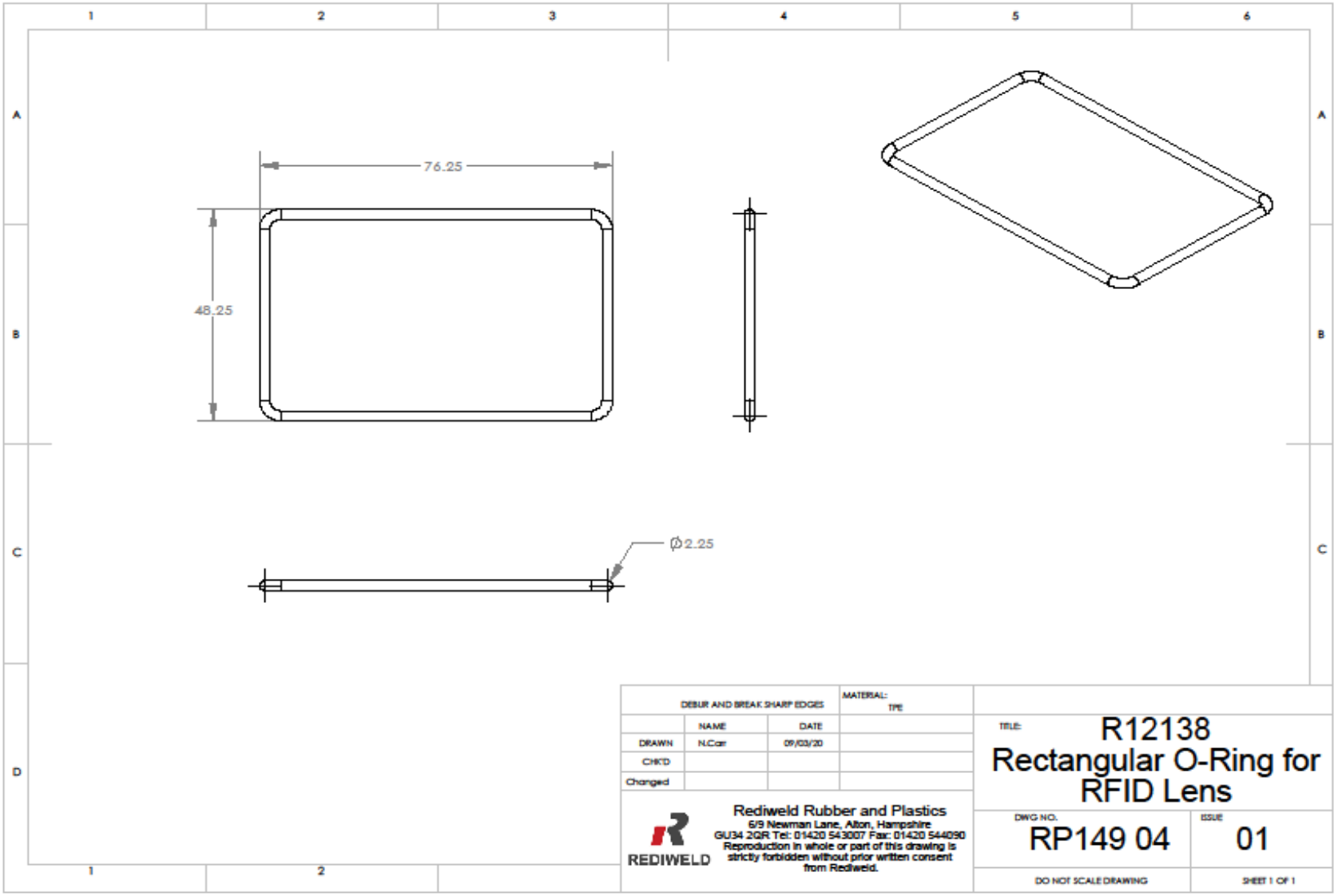
Drawing Document – Rubber Component



DEBUR AND BREAK SHARP EDGES			MATERIAL: TPE
	NAME	DATE	
DRAWN	N.Carr	09/03/20	
CHKD			
Changed			

Rediweld Rubber and Plastics
6/9 Newman Lane, Alton, Hampshire
GU34 2QR Tel: 01420 543007 Fax: 01420 544090

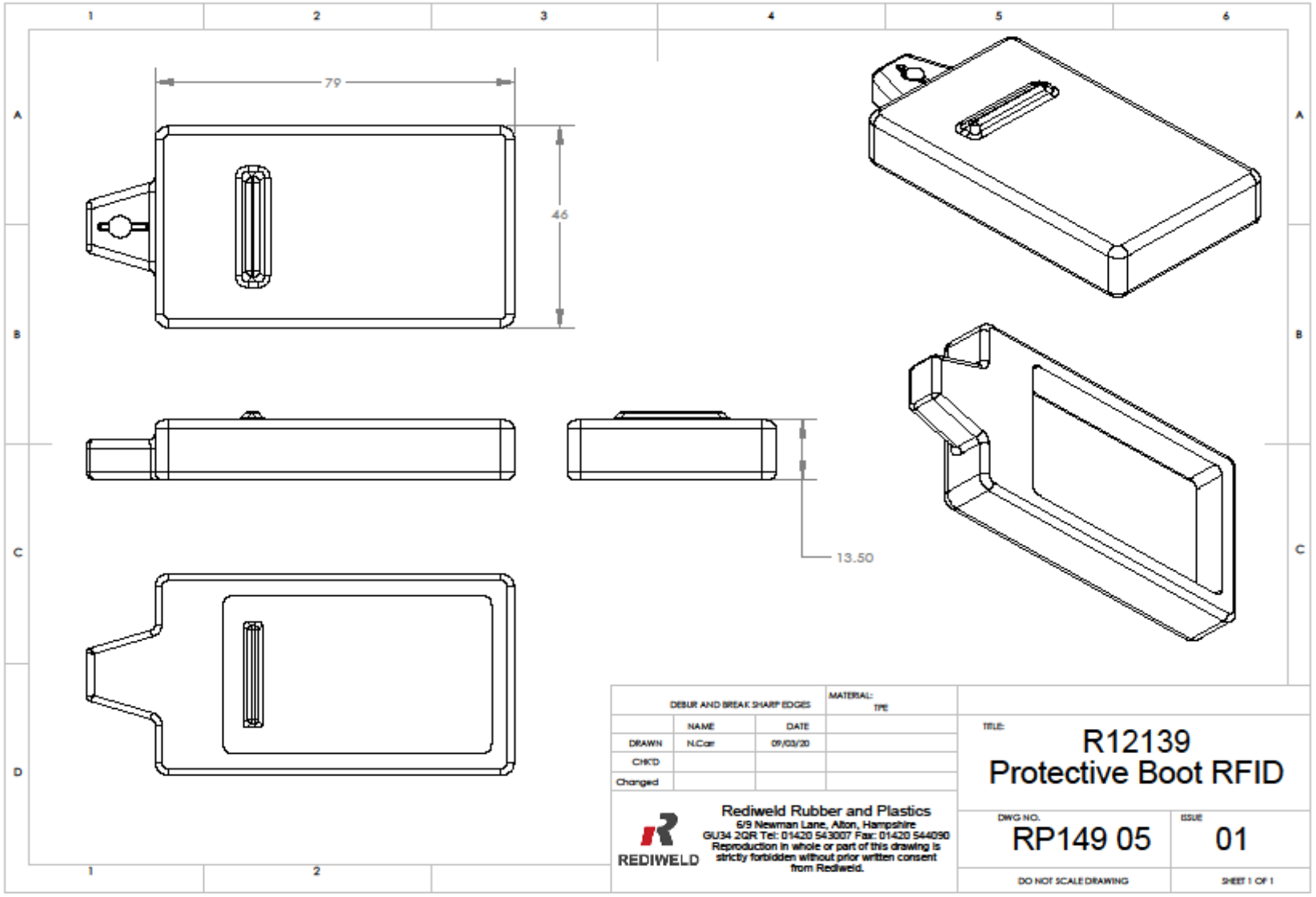
TITLE: R12138 Rectangular O-Ring for RFID Lens

DWG NO. RP149 04 | ISSUE 01

DO NOT SCALE DRAWING | SHEET 1 OF 1

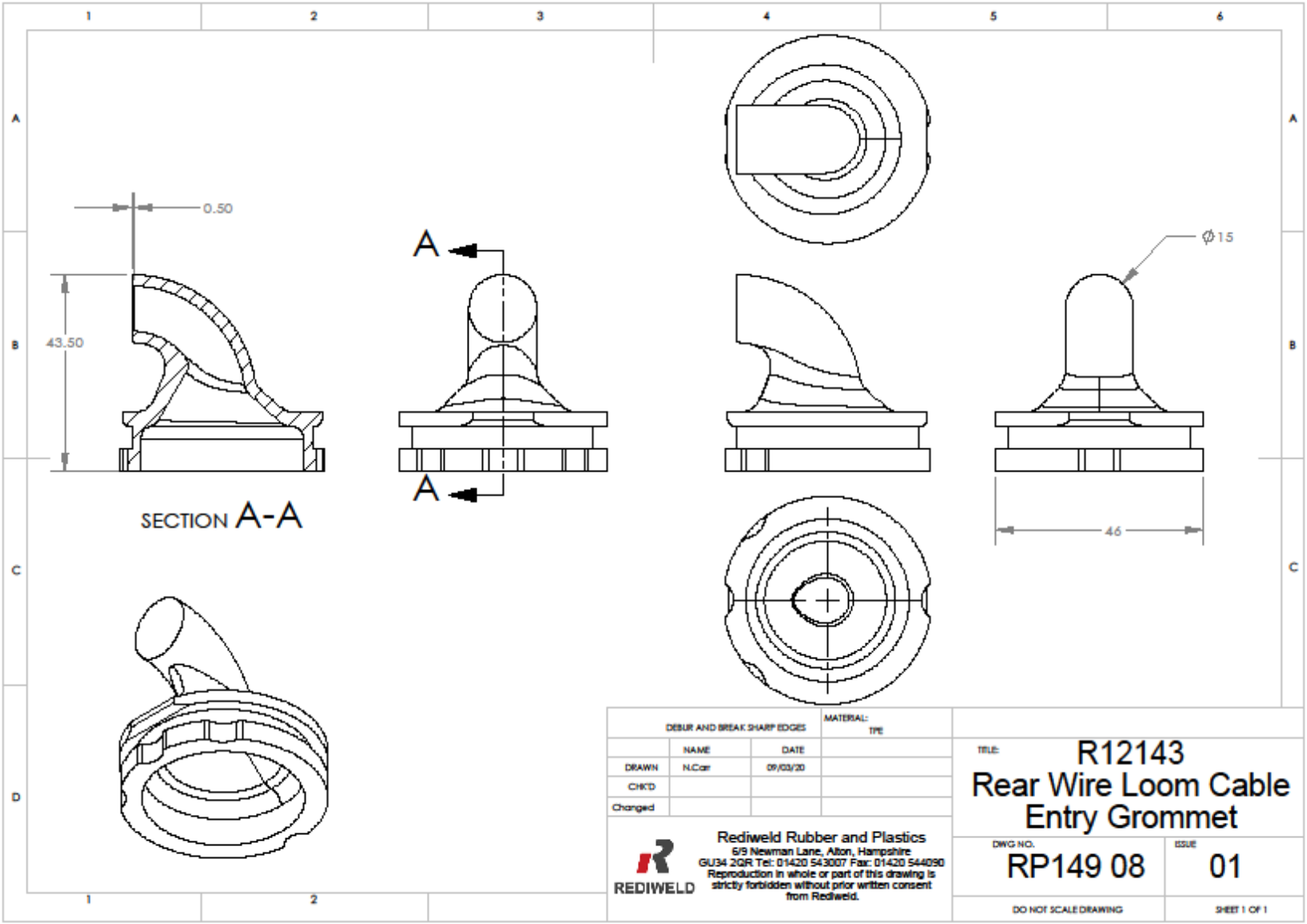
REDIWELD Technical Moulding

Drawing Document – Rubber Component



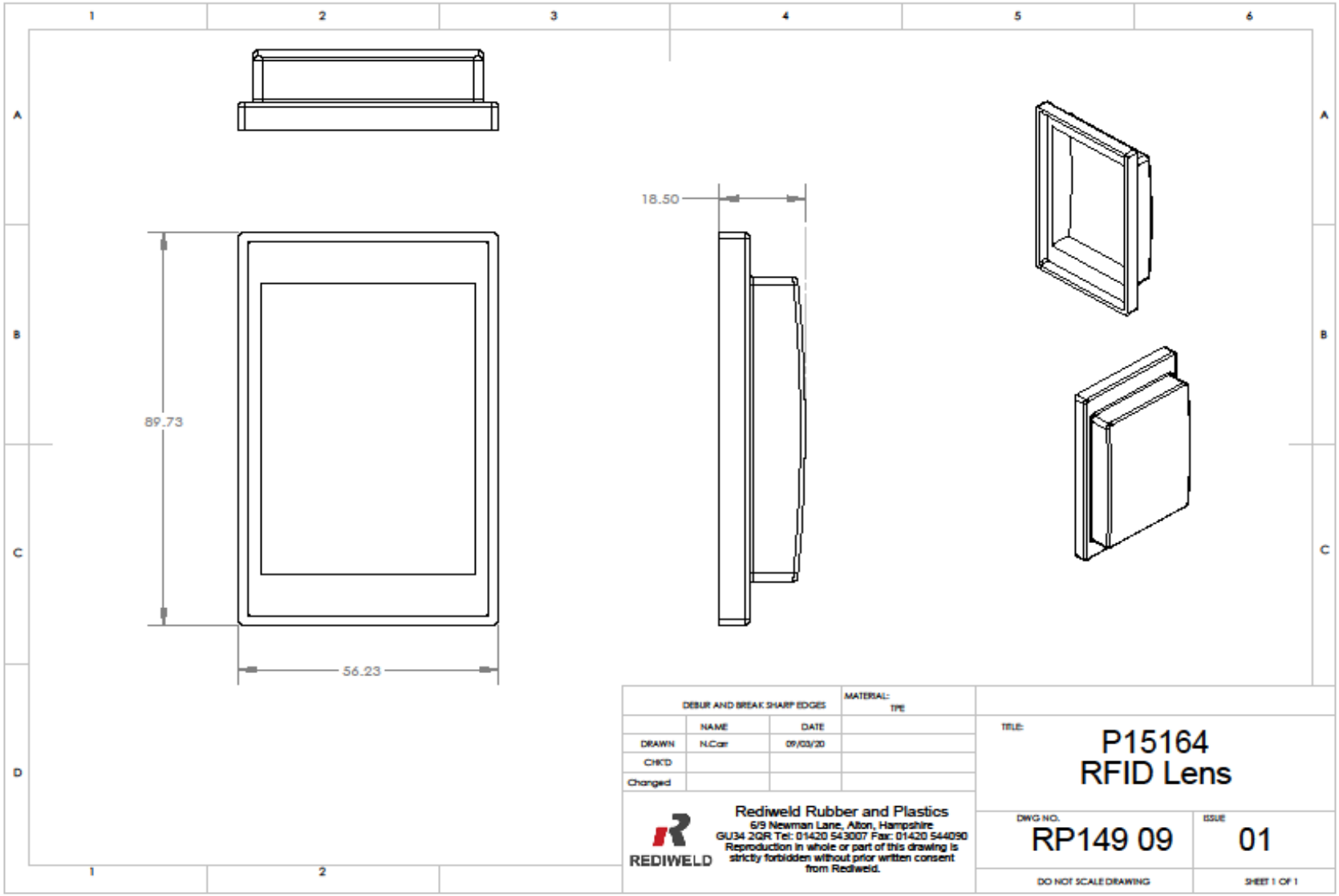
REDIWELD Technical Moulding

Drawing Document – Rubber Component



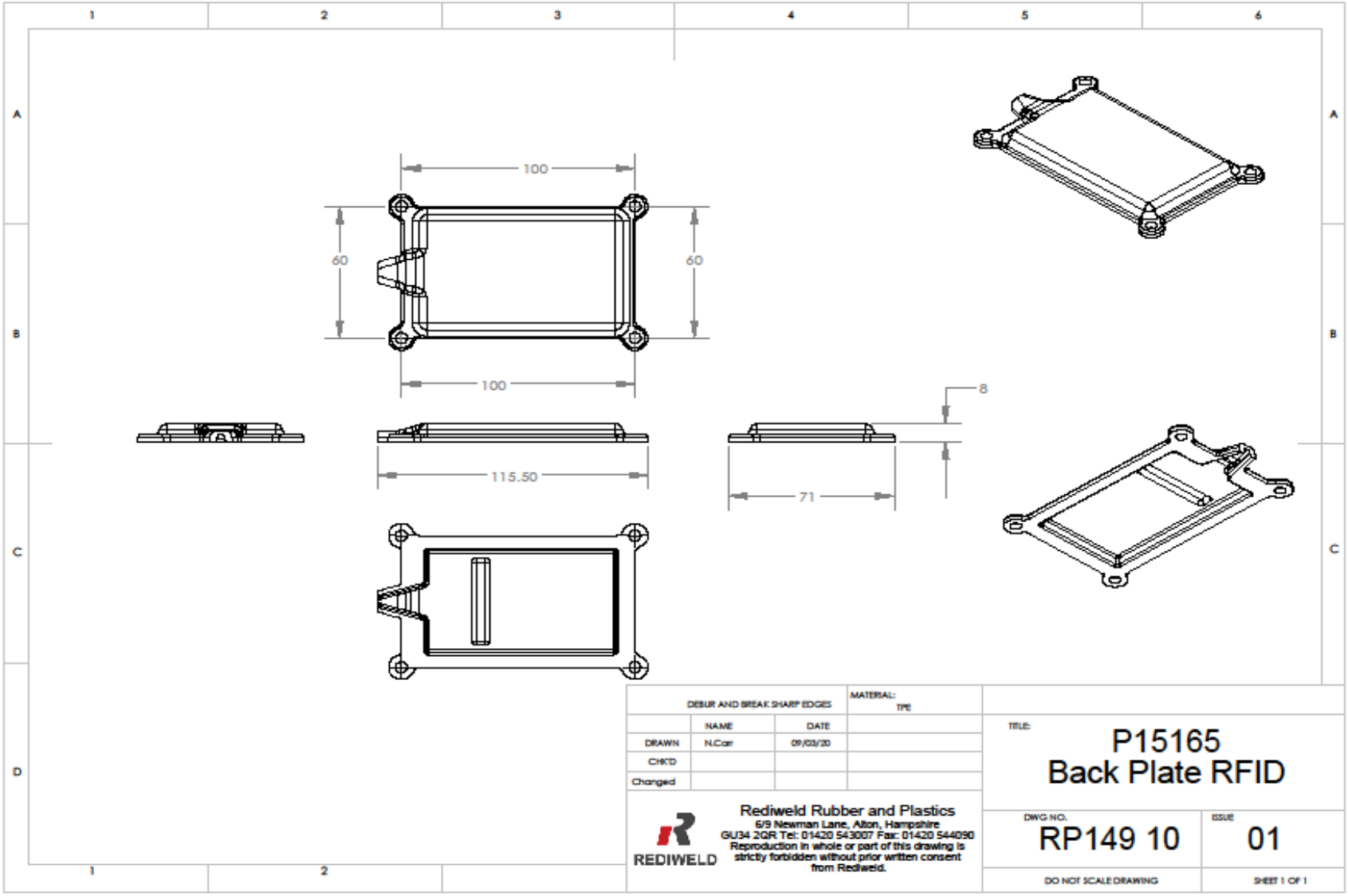
REDIWELD Technical Moulding

Drawing Document – Plastic Component



REDIWELD Technical Moulding

Drawing Document – Plastic Component



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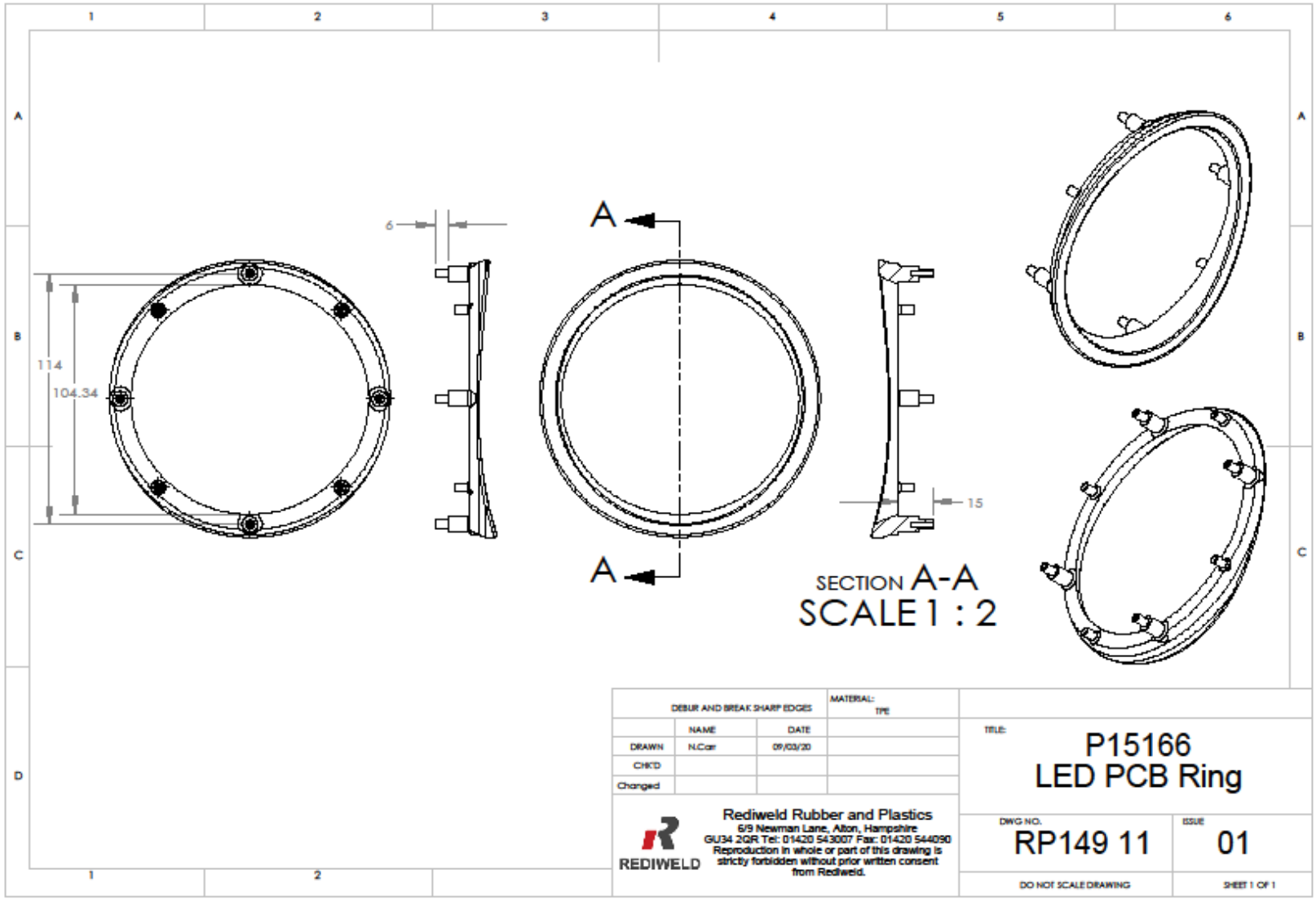
Drawing Document – Optical Plastic Component



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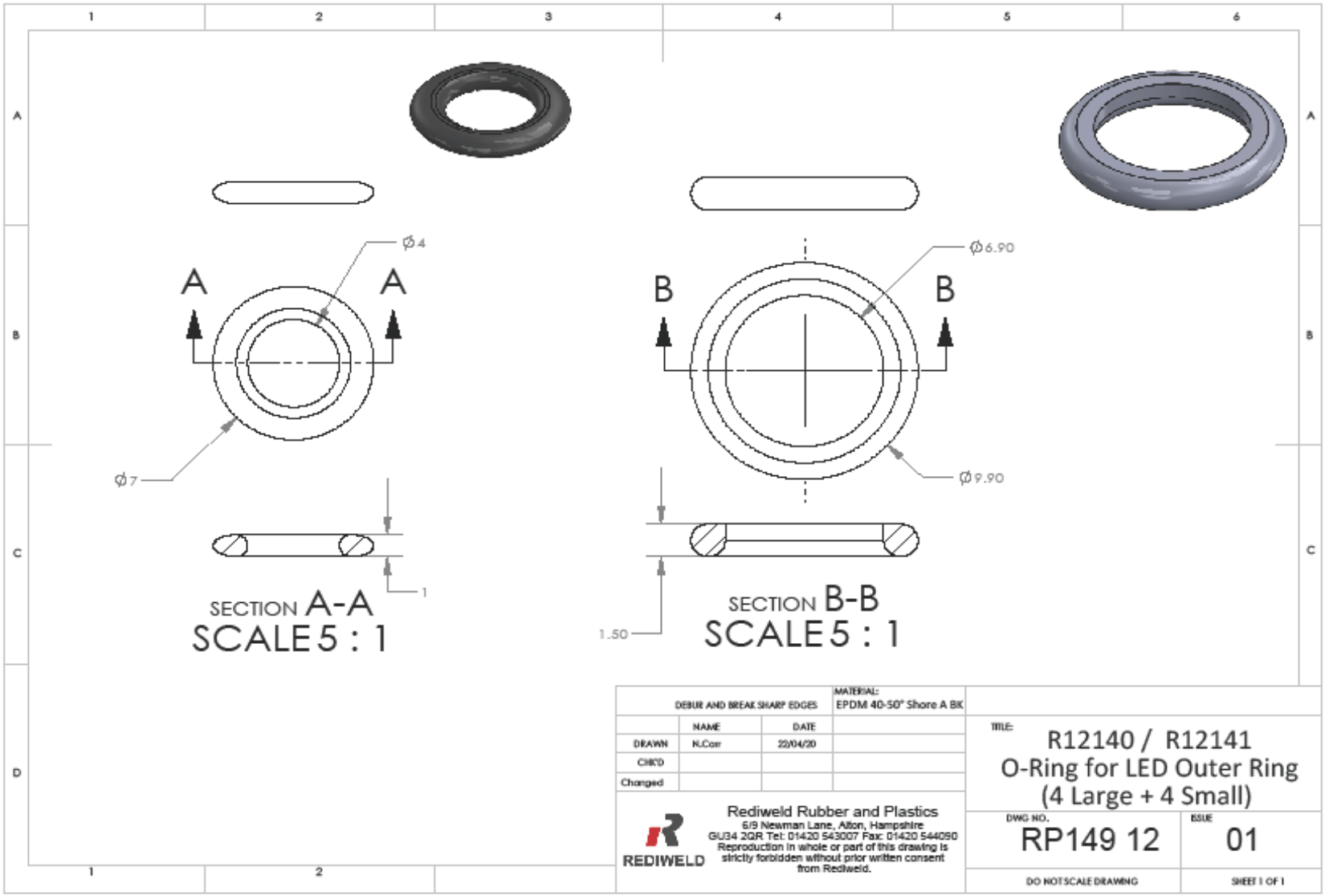
Drawing Document – Rubber Component



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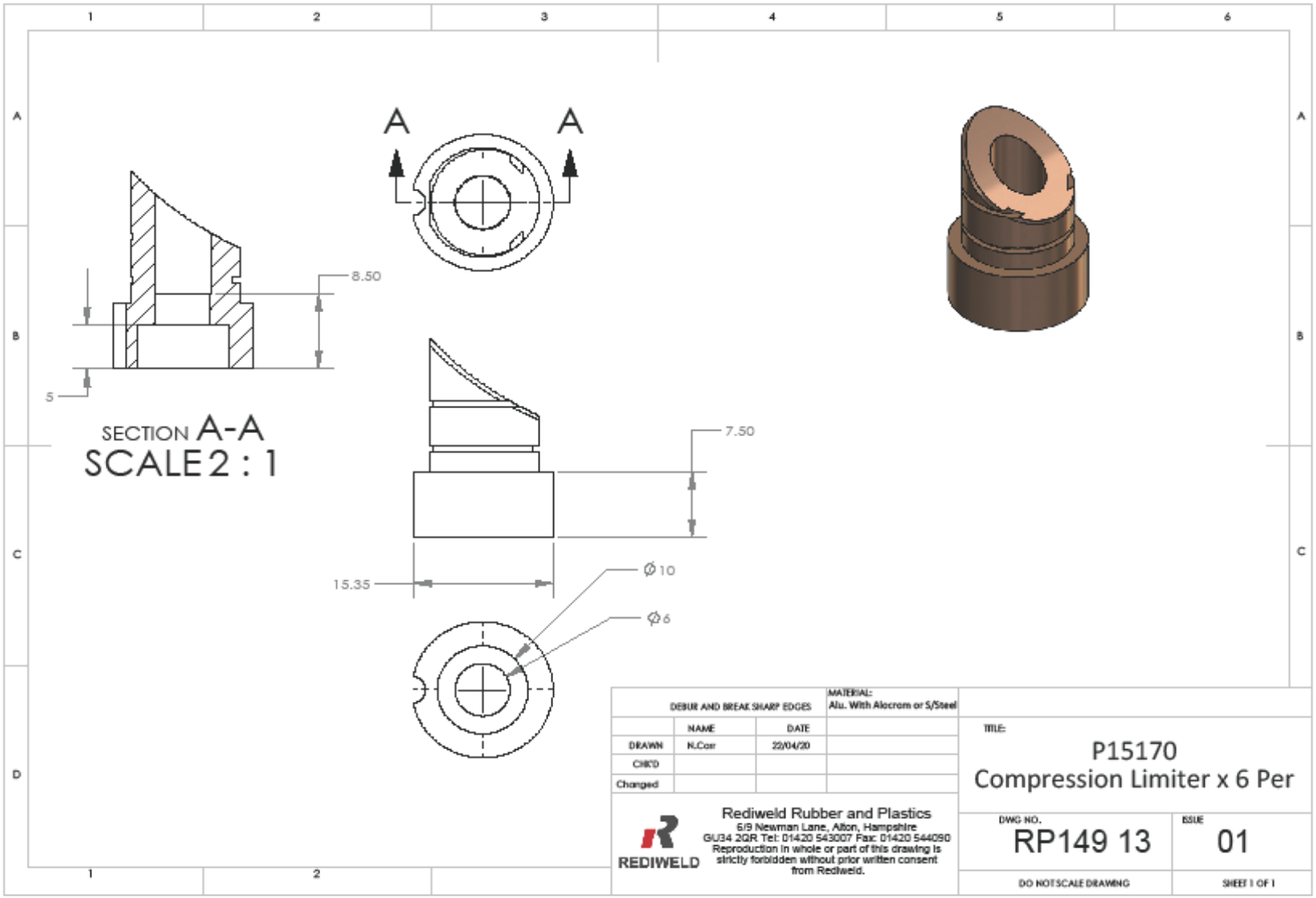
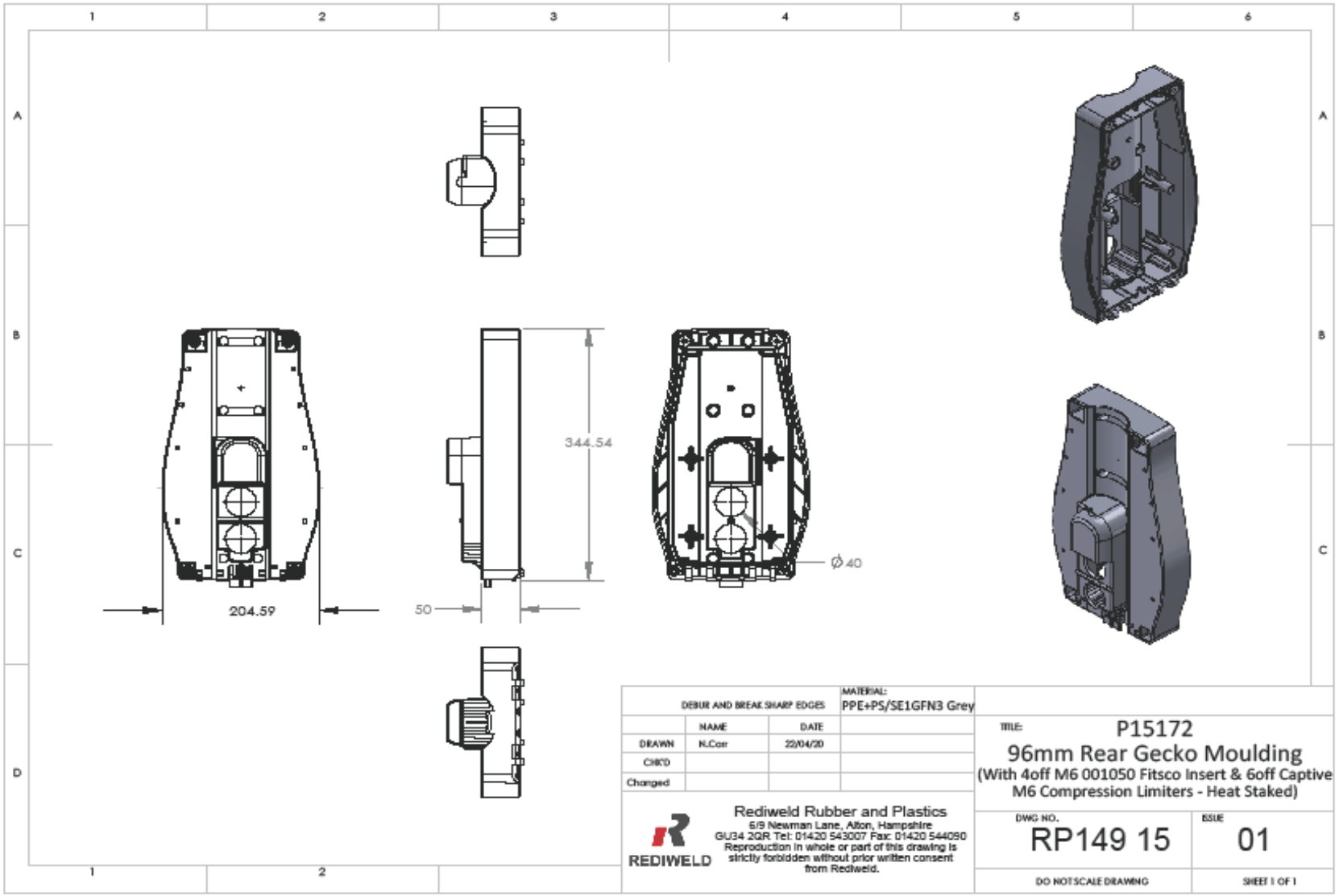
Drawing Document – Purchased Item



REDIWELD Technical Moulding

Drawing Document – Rubber Component



DEBUR AND BREAK SHARP EDGES			MATERIAL: PPE+PS/SE1GFN3 Grey
	NAME	DATE	
DRAWN	N.Carr	22/04/20	
CHK'D			
Changed			

TITLE: P15172
96mm Rear Gecko Moulding
(With 4off M6 001050 Fitsco Insert & 6off Captive M6 Compression Limiters - Heat Staked)

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Rediweld Rubber and Plastics
6/9 Newman Lane, Alton, Hampshire GU34 2QR Tel: 01420 543007 Fax: 01420 544090

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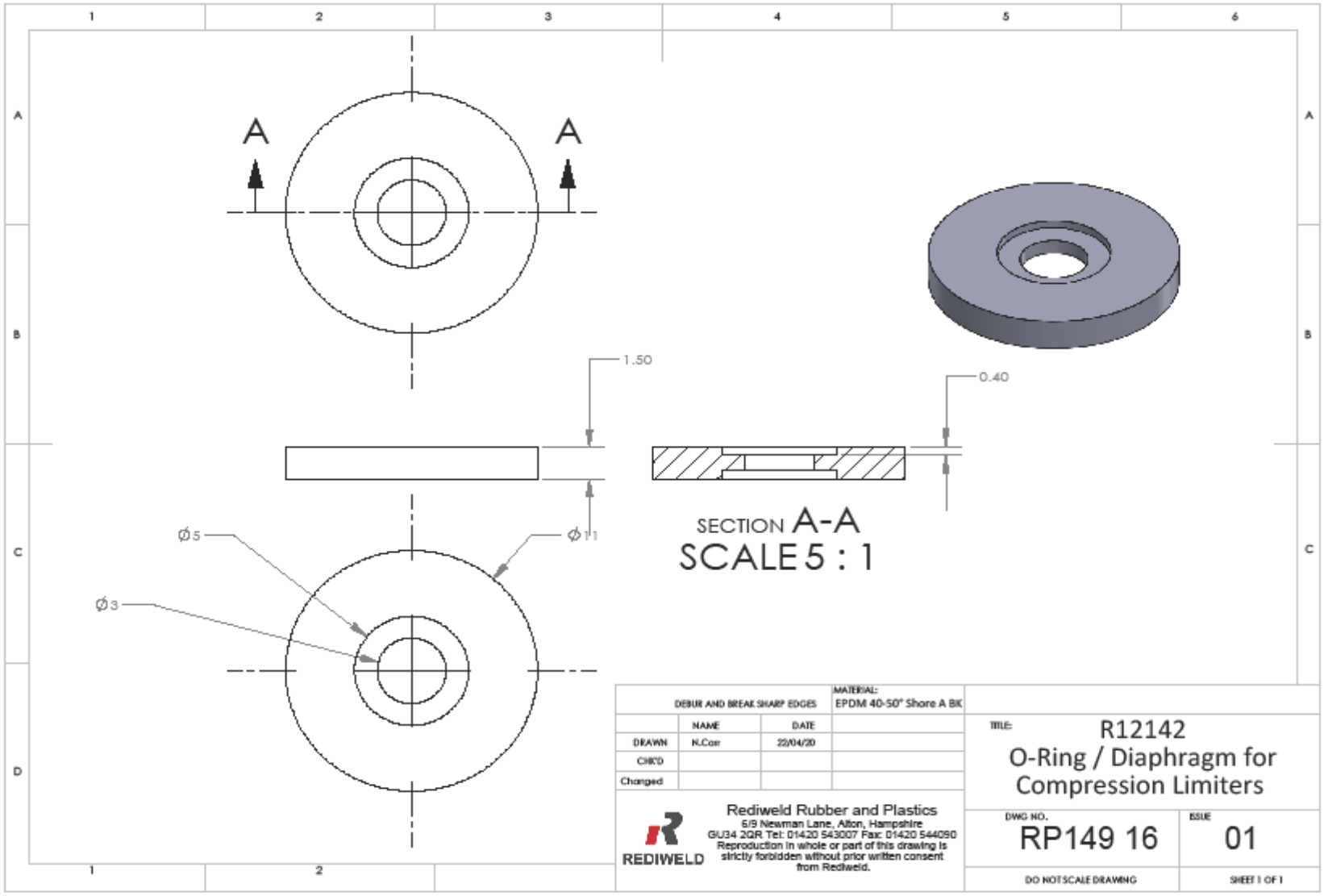
Drawing Document – Rubber Component



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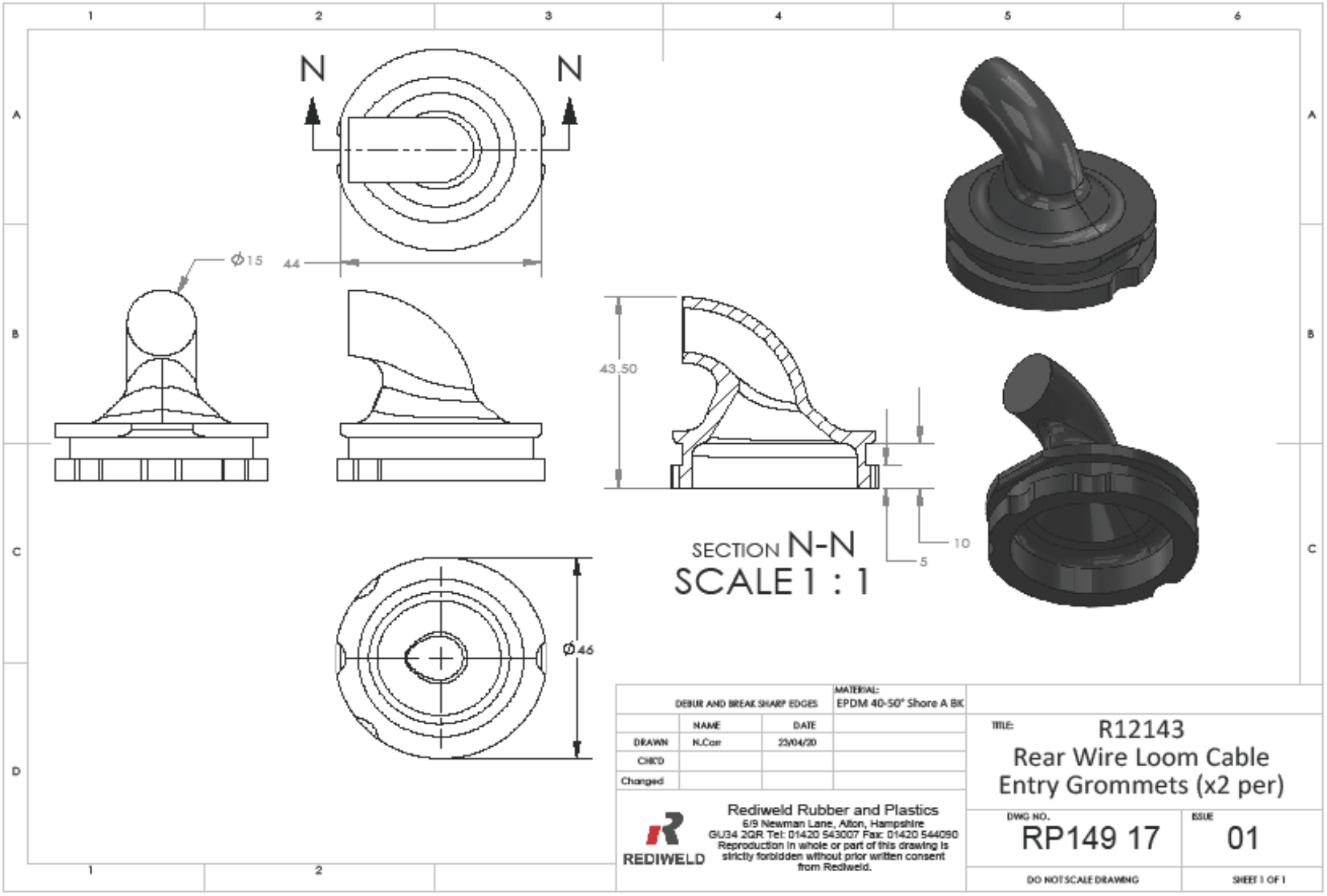

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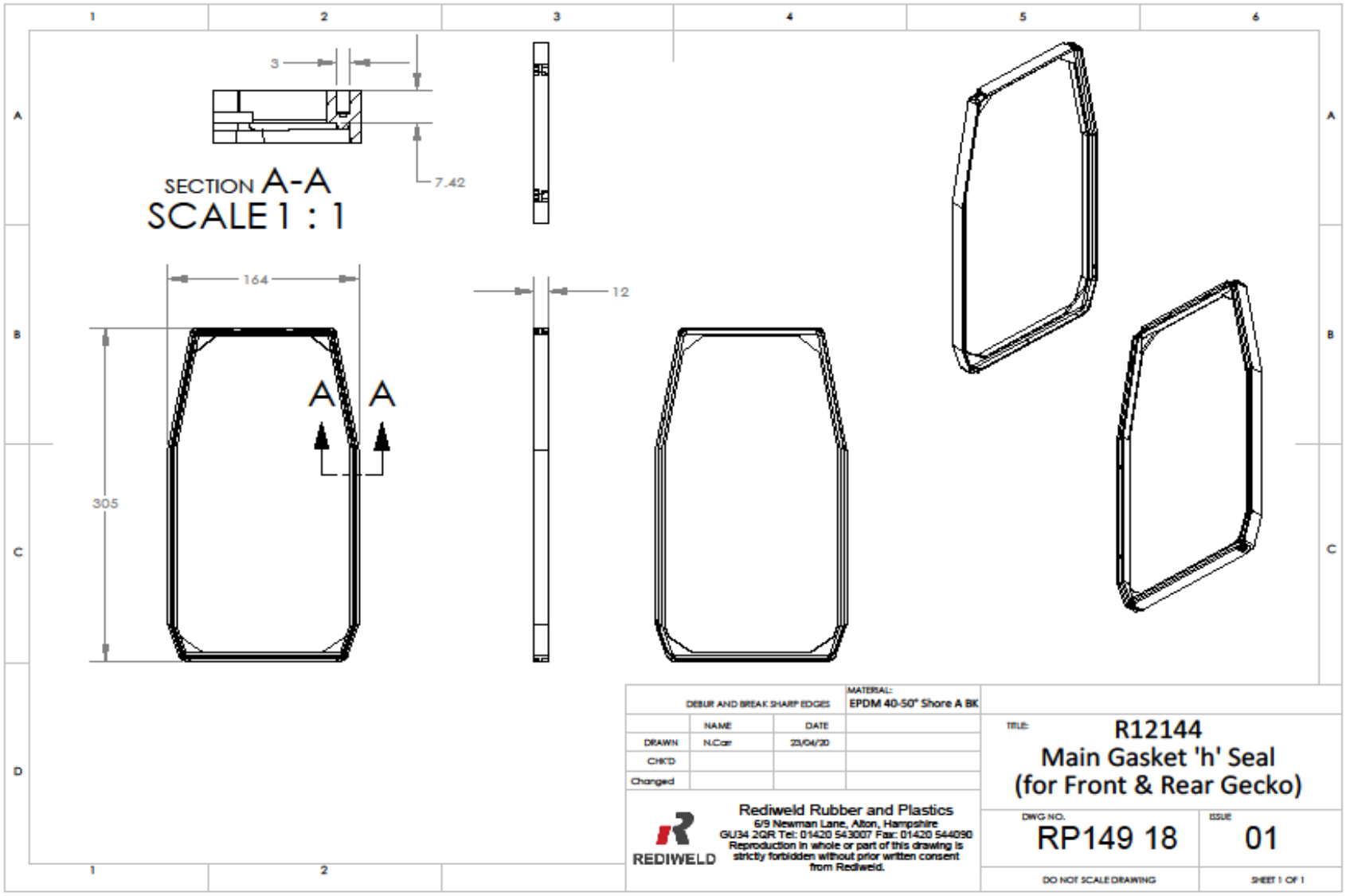
Technical Moulding

Drawing Document – Rubber Component



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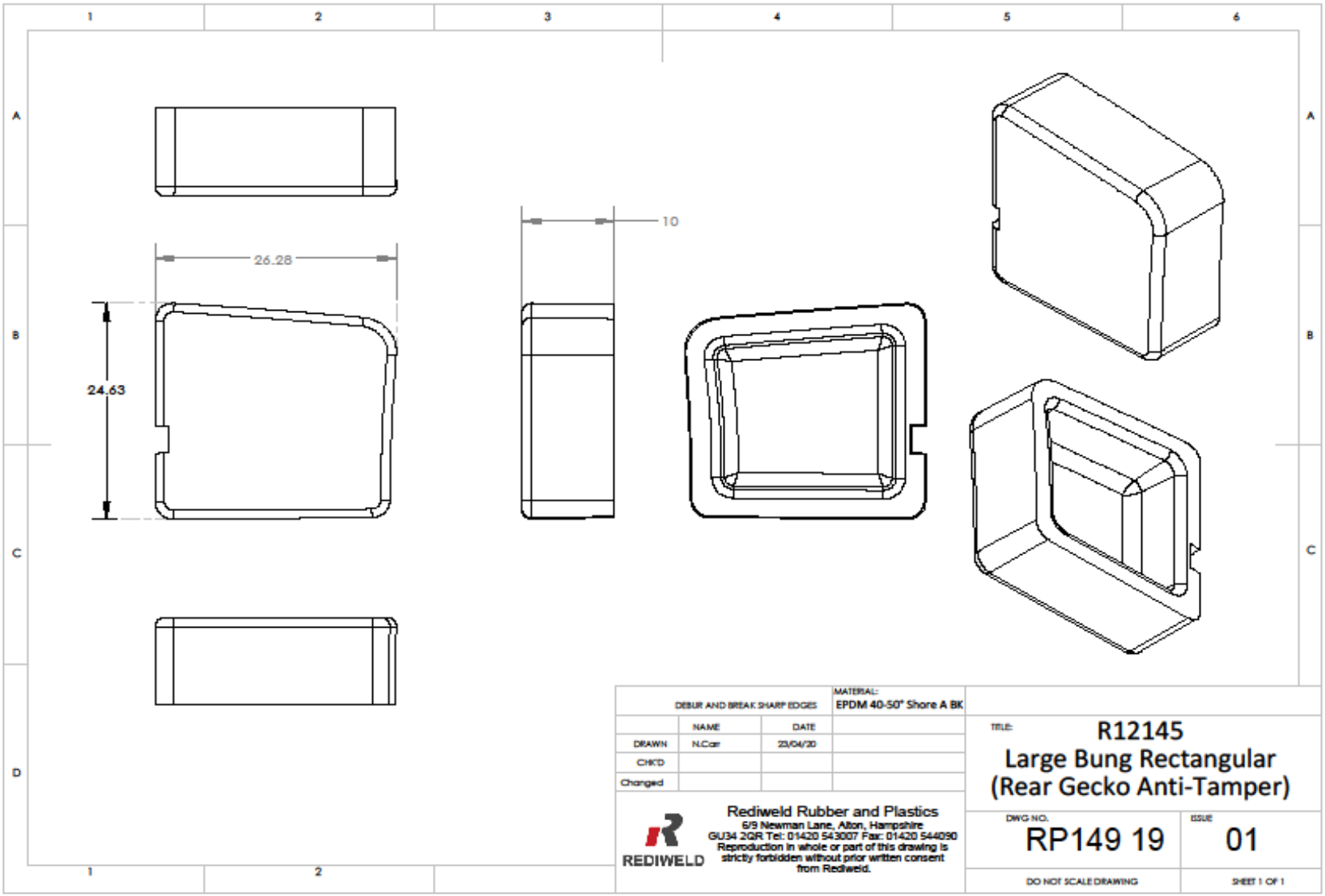
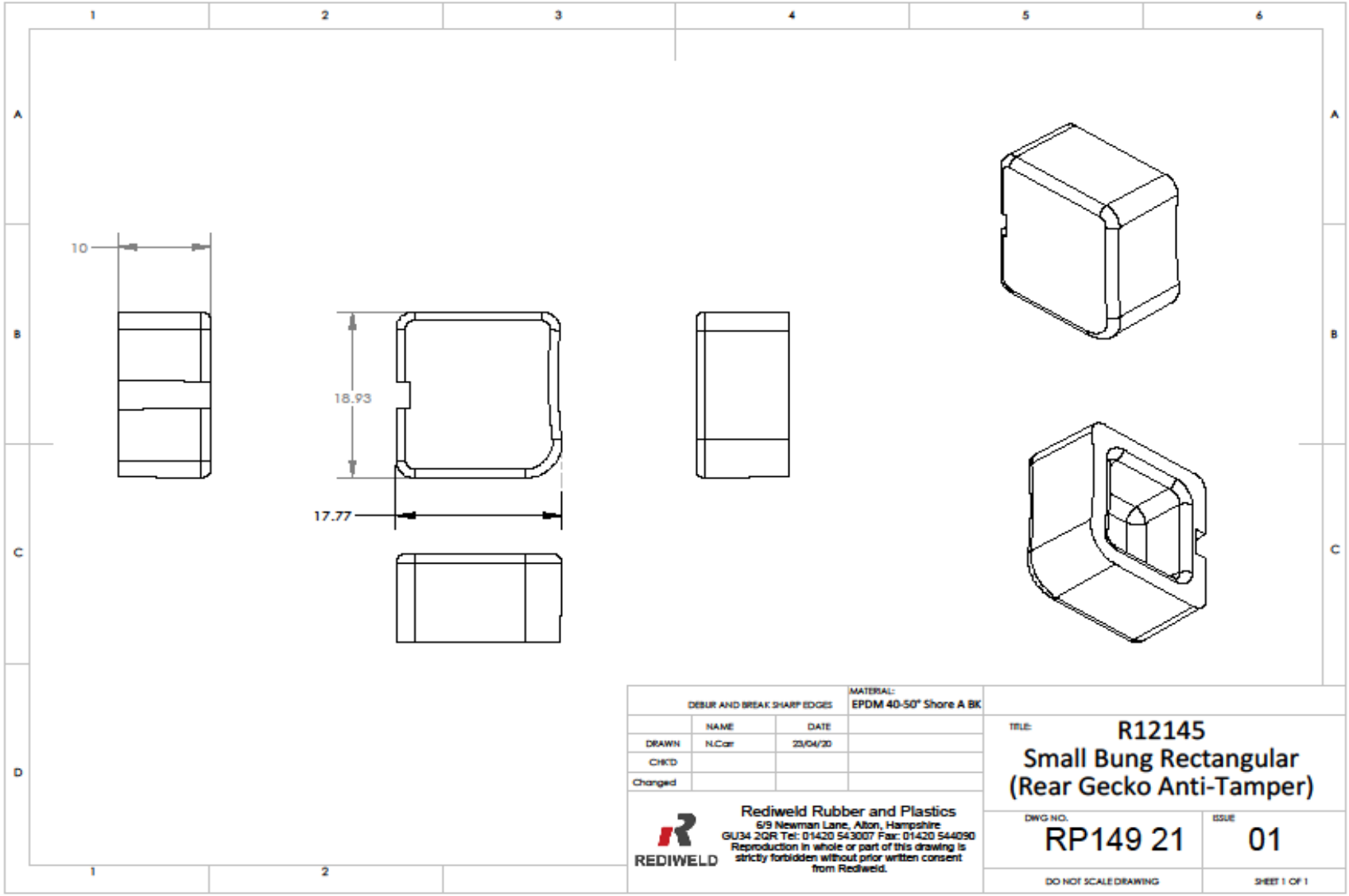
Technical Moulding

Drawing Document – Rubber Component



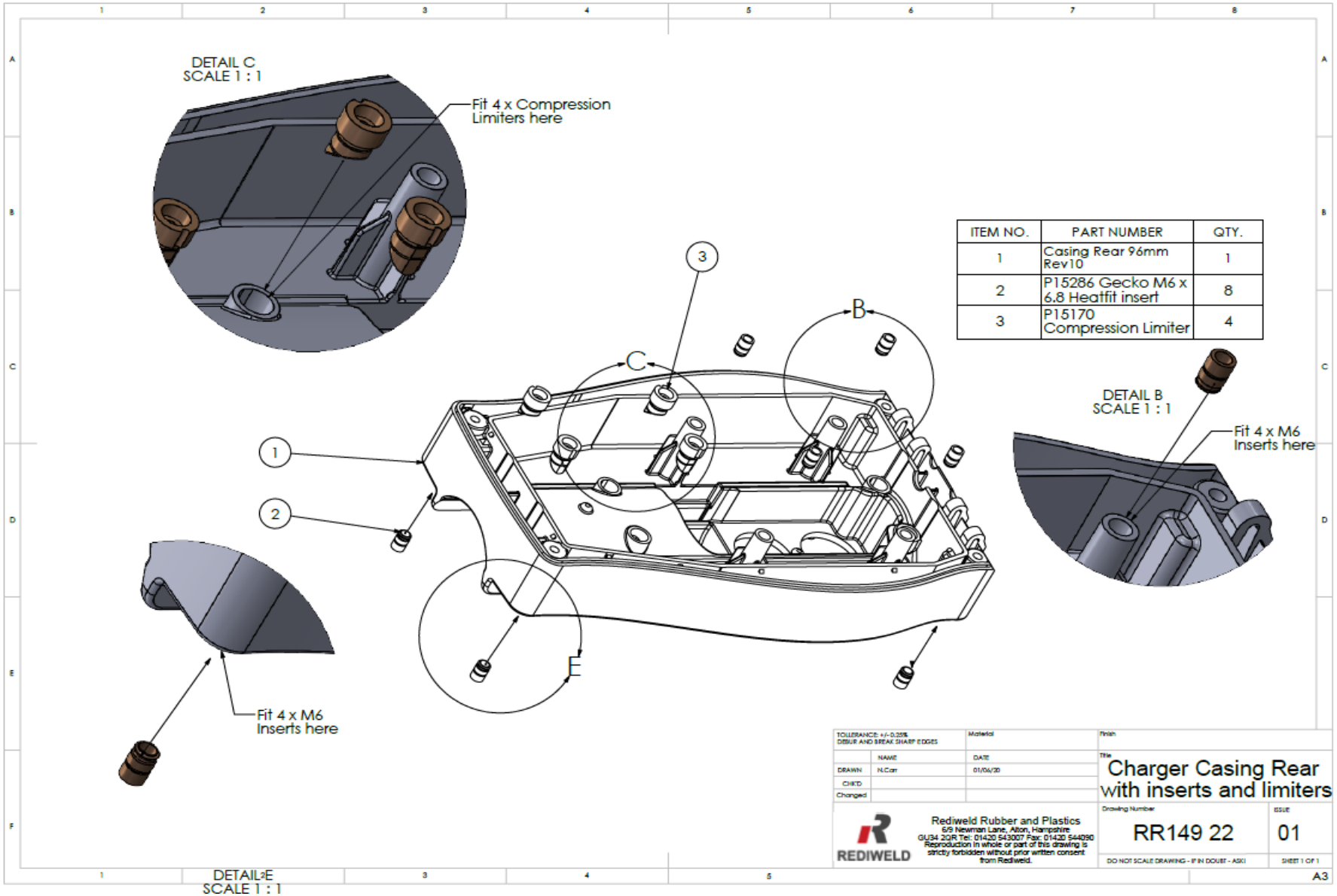
REDIWELD Technical Moulding

Drawing Document – Rubber Component



REDIWELD Technical Moulding

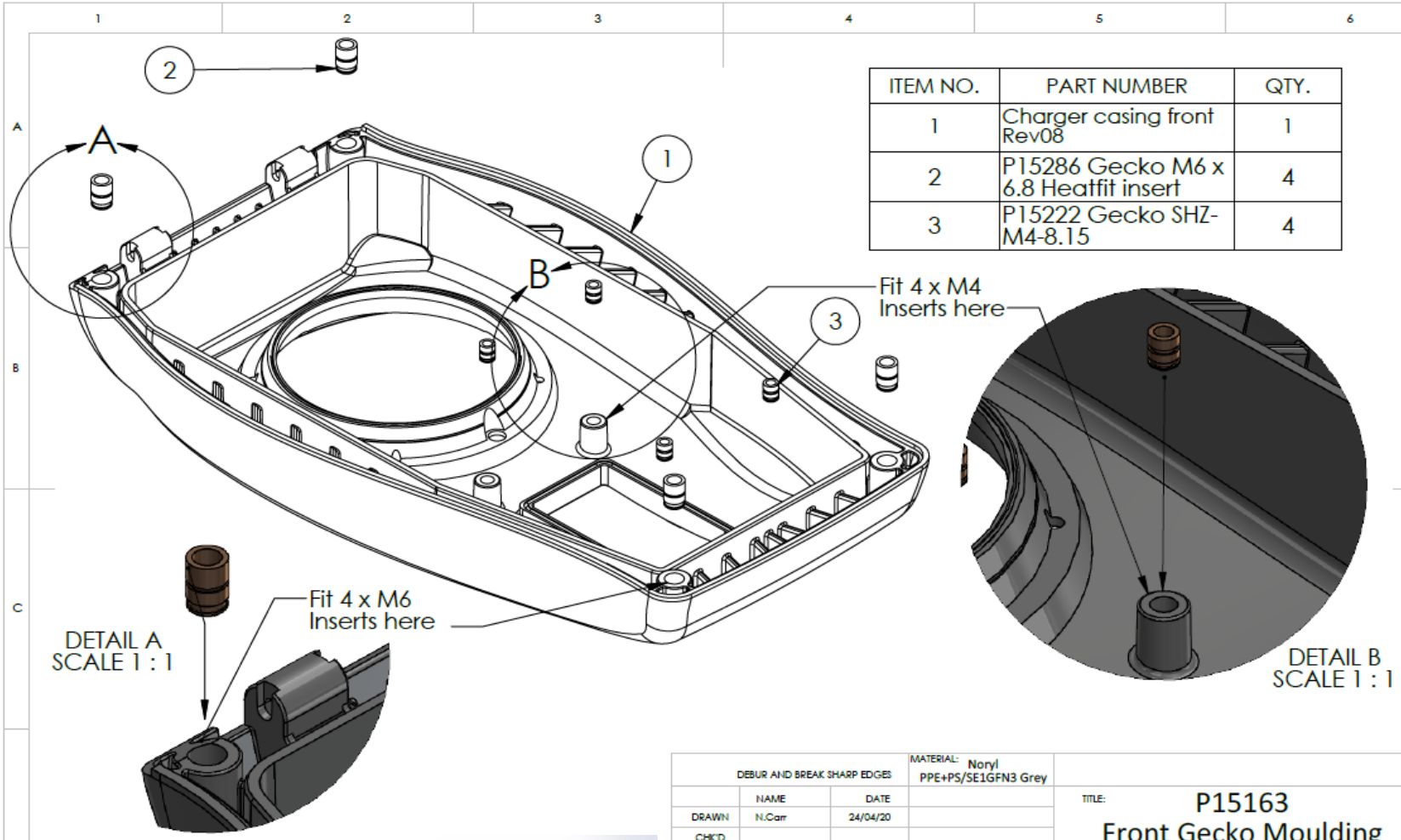
Drawing Document – Sub-Assembly



REDIWELD Technical Moulding

Drawing Document – Sub-Assembly

ITEM NO.	PART NUMBER	QTY.
1	Charger casing front Rev08	1
2	P15286 Gecko M6 x 6.8 Heatfit insert	4
3	P15222 Gecko SHZ-M4-8.15	4



DEBUR AND BREAK SHARP EDGES			MATERIAL: Noryl PPE+PS/SE1GFN3 Grey
	NAME	DATE	
DRAWN	N.Carr	24/04/20	
CHK'D			
Changed			

Rediweld Rubber and Plastics
6/9 Newman Lane, Alton, Hampshire
GU34 2QR Tel: 01420 543007 Fax: 01420 544090

TITLE: P15163
Front Gecko Moulding
(with 4 X M6 & 4 X M4
Insert Heat Staked)

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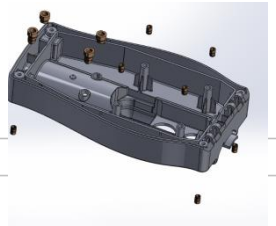
Mating Part Rear Gecko Moulding Sub-assembly



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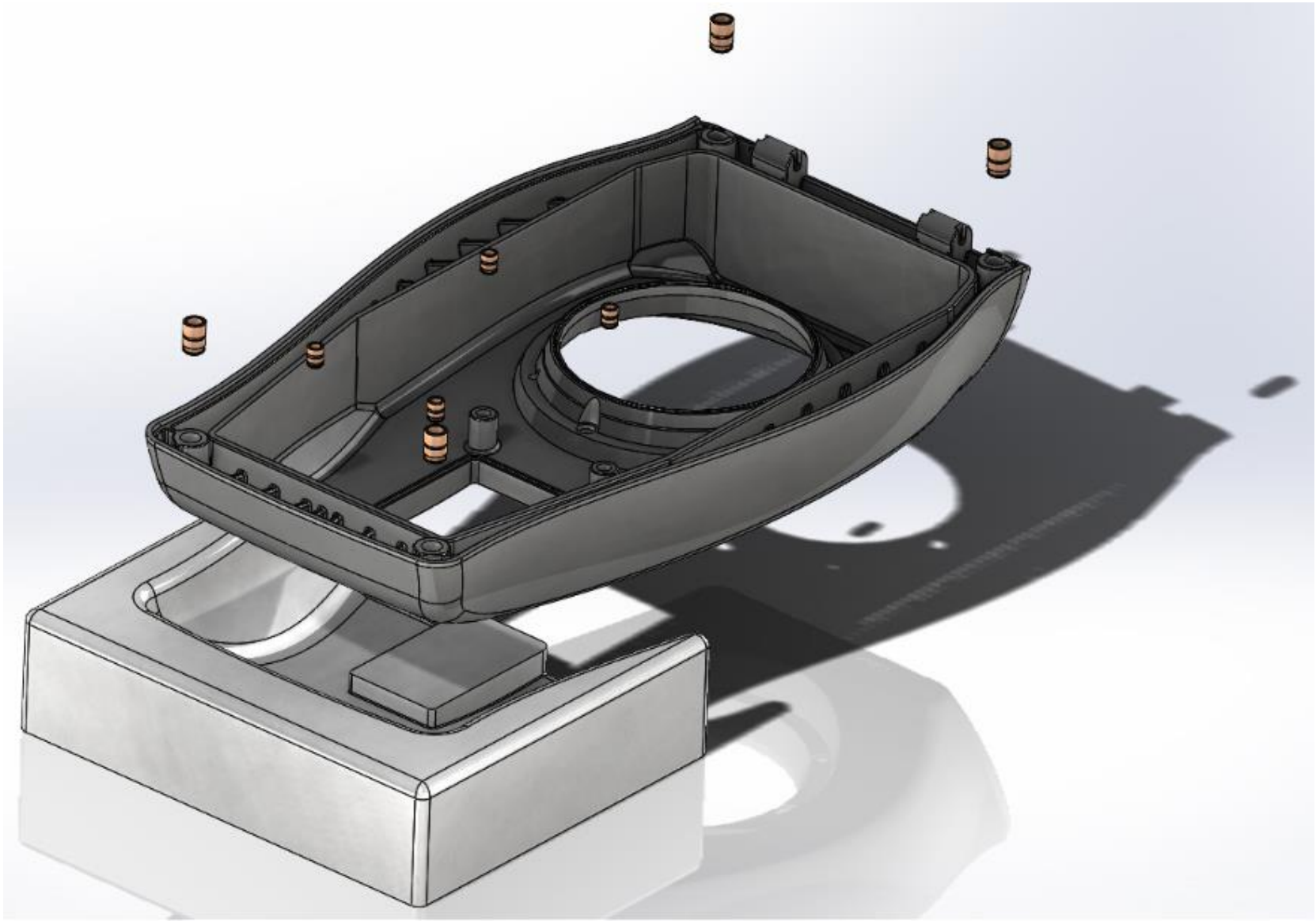
Drawing Document – Component (Sub-Assembly)



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Technical Moulding

Gecko BOM Details (P15185)

Final Assembly - P15185 (Completed)

Top-Level Part	Part Description	Parent Part	Part Description	Child Part	Type	Part Description	Ratio to Parent
P15275	Gecko Assembly	P15275	Gecko Assembly	P15163	P	Gecko Front Moulding	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15164	P	Gecko RFID Lens (1.2g/cm³)	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15165	P	Gecko Backplate RFID (1.2g/cm³)	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15166	R	Gecko LED PCB Ring	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15167	P	Gecko Circular LED Outer Ring - Light Pipe	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15168	R	Gecko Star Washers / Clip for LED Outer Ring	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15169	R	Gecko Spiral Pin For Hinge - Dia 4-5mm 34 mm L4	2
P15275	Gecko Assembly	P15275	Gecko Assembly	P15170	R	Gecko Compression Limiter	6
P15275	Gecko Assembly	P15275	Gecko Assembly	P15171	P	Gecko 76mm Rear Moulding	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15173	R	Gecko 1.5 mtr 6mm HO7 Rubber 3 Core, 32A Cable	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15174	R	Gecko M6 Captive Screw	10
P15275	Gecko Assembly	P15275	Gecko Assembly	P15175	R	Gecko Spring LC 022D 08 S316	10
P15275	Gecko Assembly	P15275	Gecko Assembly	P15176	R	Gecko M4 x 12mm Full Thread Screw for RFID	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15177	R	Gecko M6 x 20mm Screw for Socket	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15178	R	Gecko Mennekes Plug Charge socket 31038	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15179	R	Gecko RFID Reader	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15222	R	Gecko SHZ-M4-8.15	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15224	R	Gecko M6 x 8mm Through Hole Inserts	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15238	R	Gecko M6 x 25mm Torx SHCA-M6-25-A2	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15239	R	Gecko M6 x 25mm Cap Head SSC-M6-25-A2	6
P15275	Gecko Assembly	P15275	Gecko Assembly	P15263	P	Gecko Rectgl O-Ring RFID Lens (R12138)	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15265	R	Gecko O-Ring for LED Outer Ring Large (R12140)	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15266	R	Gecko O-Ring for LED Outer Ring Small (R12141)	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15267	R	Gecko O-Ring / Diaphgm for Comp Lim (R12142)	6
P15275	Gecko Assembly	P15275	Gecko Assembly	P15268	R	Gecko Rear Wire Loom Cable Grommets (R12143)	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15269	R	Gecko Main Gasket Seal Front & Rear (R12144)	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15270	R	Gecko Bung(Rear Anti-Tamp) Large (R12145)	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15271	R	Gecko Bung(Rear Anti-Tamp) Small (R12164)	4
P15275	Gecko Assembly	P15275	Gecko Assembly	P15274	P	Gecko Harness Assy	1
P15275	Gecko Assembly	P15275	Gecko Assembly	P15291	R	Gecko M6 x 12.7 Heatfit insert	12
P15275	Gecko Assembly	P15274	Gecko Harness Assy	P15264	P	Gecko Protective Boot RFID (R12139)	1
P15275	Gecko Assembly	P15274	Gecko Harness Assy	P15268	P	Gecko Rear Wire Loom Cable Grommets (R12143)	1

KEY:
Manufacture
Purchase

REDIWELD

Technical Moulding

Manufacture Assembly Document

(Component Sub-Assembly)

Process Description:-	Mains power cable	Customer:-	Connected Kerb	Base Part Number:-	
Relevent Specfications:-		Drawing Number:-		New Part Number:-	
Specfication Issue:-		Drawing Revision:-		Machine Number:-	

Op No.	OPERATOR INSTRUCTIONS	PROCESS IMAGES
10	Get power cable P15173 and feed P15268 cable grommet over finished end as shown ensuring grommet is put on in correct alignment.	
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Representative Name	Date	Issue	Reason For Change	Approved By

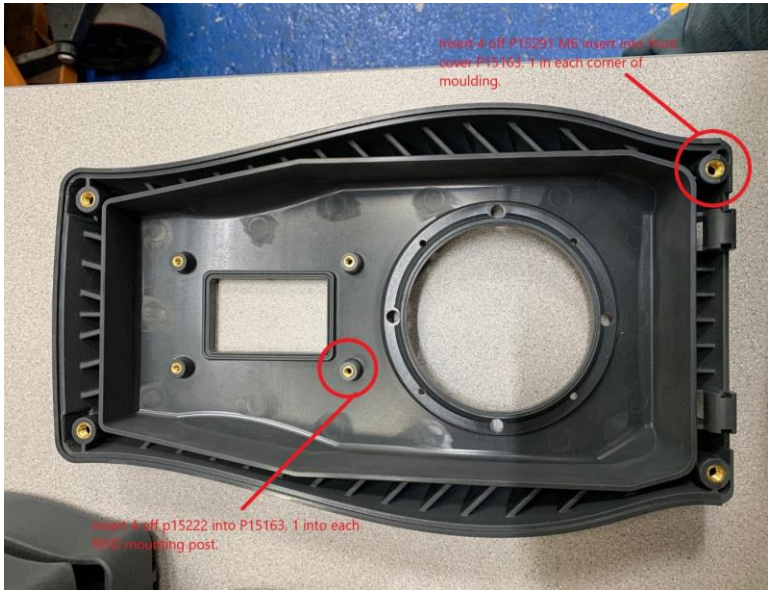
REDIWELD

Technical Moulding

Manufacture Assembly Document

(Component Sub-Assembly)

Process Description:-	Inserting front cover	Customer:-	Connected Kerb	Base Part Number:-	
Relevent Specfications:-		Drawing Number:-		New Part Number:-	
Specfication Issue:-		Drawing Revision:-		Machine Number:-	

Op No.	OPERATOR INSTRUCTIONS	PROCESS IMAGES
10	Insert 4 off P15291 M6 insert into front cover P15163. 1 in each corner of moulding.	
20	Insert 4 off p15222 into P15163. 1 into each RFID mounting post.	
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Representative Name	Date	Issue	Reason For Change	Approved By

REDIWELD

Technical Moulding

Manufacture Assembly Document

(Component Sub-Assembly)

Process Description:-	Inserting Rear Gecko Casing	Customer:-	Connected Kerb	Base Part Number:-	
Relevent Specfications:-		Drawing Number:-		New Part Number:-	
Specfication Issue:-		Drawing Revision:-		Machine Number:-	

Op No.	OPERATOR INSTRUCTIONS	PROCESS IMAGES
10	Insert Compression Limiter insert P15170 into 4 locations on rear gecko casing P15171	
20	Insert 8 off M6 inserts P1529, 4 off into Connector upright posts and 4 off into rear side 4 corners.	
30	Assemble 4 off diaphragms P15267 to 4 off M6 Cap Head Captive screw P15174 . Assemble 4 off Spring P15175 to all 4 off captive screw with diaphragm. Assemble to 4 off compression limiters.	
40	Assemble 2 off spring P15175 to 2 0ff M6 Cap Head captive screw P15174 and assemble 2 off spring to 2 off Torx M6 captive screw. Insert the 2 of Torx Captive screws with spings intotop two holes, screw them in until they are retained. Insert other 2 off Cap head captive screws into bottom 2 holes, screw them in until they are retained.	
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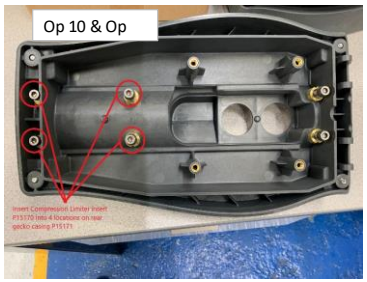
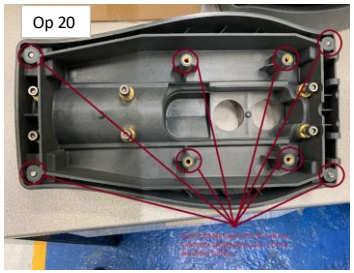
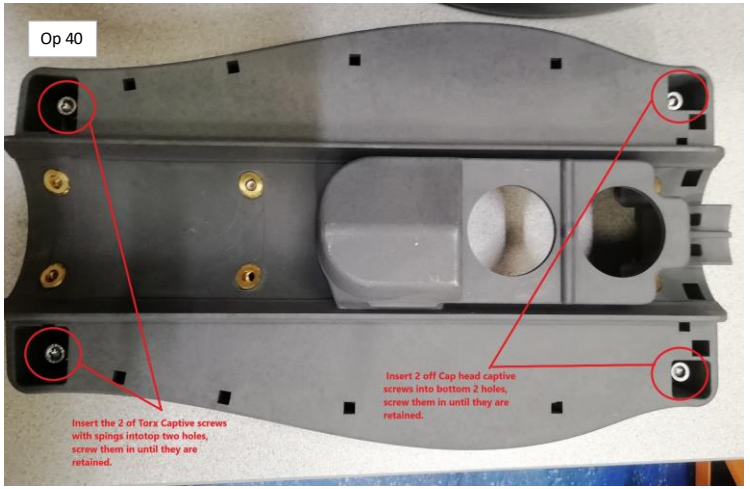






Representative Name	Date	Issue	Reason For Change	Approved By

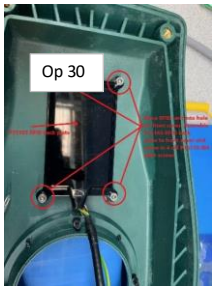
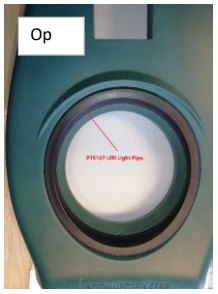
REDIWELD

Technical Moulding

Manufacture Assembly Document

(Component Sub-Assembly)

Process Description:-	Front cover Electrical, Data assembly	Customer:-	Connected Kerb	Base Part Number:-	
Relevent Specfications:-		Drawing Number:-		New Part Number:-	
Specfication Issue:-		Drawing Revision:-		Machine Number:-	

Op No.	OPERATOR INSTRUCTIONS	PROCESS IMAGES
10	Assemble Rectangular P15263 'O' ring to front cover RFID recess ensure 'O'ring is pushed into recess.	  
20	Ensure Antistatic measures are in place, Slide P15264 Rectangular boot on Data harness to end of cable, assemble P15179 RFID reader board to connector and fit into rectangular boot. Assemble P15164 RFID Lens to open side of boot.	
30	Place RFID unit into hole on front cover. Assemble P15165 RFID back plate to front cover and screw in 4 off P15176 M4 allen screws	
40	Assemble P15167 Light pipe ring through front cover. Ensure light pipe is positioned correctly as shown.	  
50	Assemble P15166 LED PCB to locations on Light pipe ring moulding studs, push into place. Ensure PCB connector is in correct location as shown. Ensure data cable is located under PCB connector prior to assembling washers. Push 4 off Metal Star washers onto studs in four locations as shown using Tool TL…..... Holding LED light pipe when	
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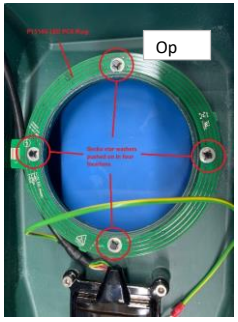
70		  
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Representative Name	Date	Issue	Reason For Change	Approved By

REDIWELD Technical Moulding

Manufacture Assembly Document

(Component Sub-Assembly)

Process Description:-	Wiring Mennekes Socket	Customer:-	Connected Kerb	Base Part Number:-	
Relevent Specfications:-		Drawing Number:-		New Part Number:-	
Specfication Issue:-		Drawing Revision:-		Machine Number:-	

Op No.	OPERATOR INSTRUCTIONS	PROCESS IMAGES
10	Get front cover assembly with Data harness and P15178 Mennekes Socket.	
20	Insert 6mm power cable assy wires into L1 - BN, Earth - GN/Y and N - BL ensure locking screwa are fully tightened and check wires are secure. Take the Orange and Blue wires from the data harness and insert the Orange wire into the PP hole and tighten screw and insert the Blue wire into the CP hole and tighten screw. Ensure both wires are secured.	
30	Get Actuator supplied with the socket and locate in position and secure with 2 screws supplied. Plug the connector from the Data harness with the Purple, Brown and Yellow wires into the actuator.	
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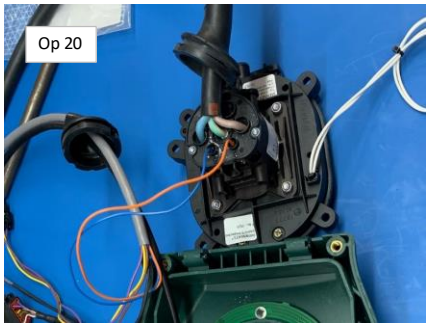
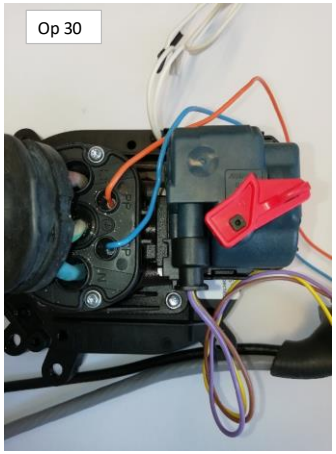




Representative Name	Date	Issue	Reason For Change	Approved By

REDIWELD

Technical Moulding

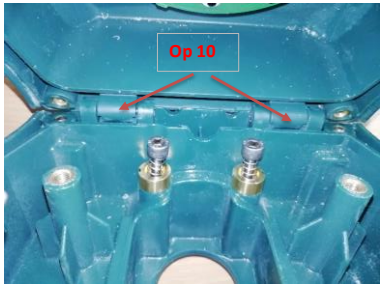
Manufacture Assembly Document

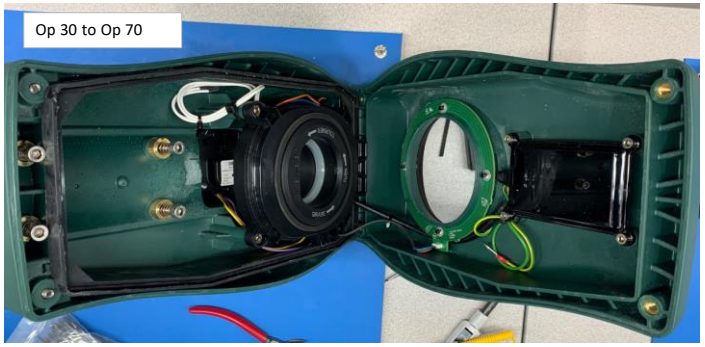
(Final Component Assembly)

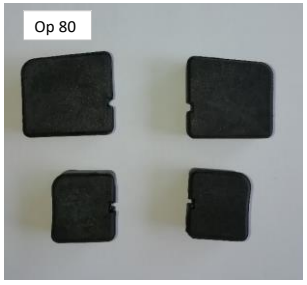
Process Description:-	Final Assembly	Customer:-	Connected Kerb	Base Part Number:-	
Relevent Specfications:-		Drawing Number:-		New Part Number:-	
Specfication Issue:-		Drawing Revision:-		Machine Number:-	

Op No.	OPERATOR INSTRUCTIONS
10	Get Front cover assy, Rear Moulding assy and 2 off Spirol Hinge pins P15169. Locate spirol pin in hinge of Rear moulding, align front cover hinge to rear cover hinge and compress Spirol pin through both parts. Repeat for second hinge.
20	Get Main gasket seal P15269 position onto rear moulding and press into place ensuring fully located.
30	Feed Data Cable through rear moulding until cable grommet reaches casing and the pull grommet through locking into position with curve facing downwards.
40	Feed 6mm power cable through rear moulding positioning Mannekes socket to four mounts in moulding, feeding the orange, blue, purple, brown and yellow wires over the actuator whilst pulling and locking grommet into place again with curve of grommet downwards. (Impotant note whilst doing this ensure no wires or cables are trapped between socket and moulding)
50	Secure the Mennekes socket into place with four off P15177 M6 cap head screws.
60	Plug the LED power cable into LED PCB socket, ensuring fully located and cable tie lead to the main data cable. Coil up the 2 white wires from the Mennekes socket and cable tie them to the upstand as shown.
70	Check assembly
80	Get 1 each of LH and RH Gecko bung Large P15270 and 1 each LH and RH Gecko bung small P15271and place into small bag and place in upper cavity of rear moulding.
90	Close Both mouldings together ensuring not to trap any wires and bag of bungs are located in assembly. Secure unit by tightening the two top Torx screws.
100	Lay unit face down, Coil the mains cable and cable tie to secure. Coil the data cable and cable tie to secure. Unit is ready for packing.

PROCESS IMAGES







Representative Name	Date	Issue	Reason For Change	Approved By

REDIWELD Technical Moulding

Gecko Manufacturing Assembly location, Alton Facility

REDIWELD Technical Moulding

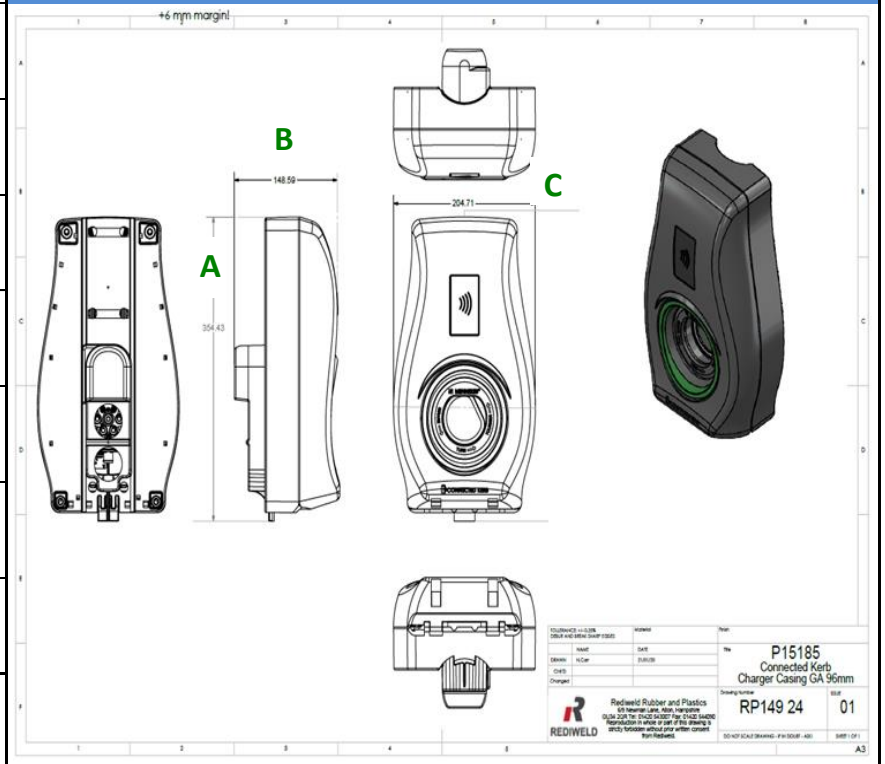
Gecko Assembly Build Pack (P15185)

Description:-	Gecko (Finished Assembly)	Part Code:-	P15185	Material:-	Various Grades (Assembled)
Customer:-	Connected Kerb	Customer Part No:-	N/A	Colour:-	Various (Assembled)
Tool No:-	Various Tooling	Drawing No:-	RR149 24	Masterbatch:-	N/A
Validated Machines:-	Various Machines / Secondary Op Equip	Drawing Issue:-	1	Material Code:-	N/A

DETAIL	FUNCTION				FREQUENCY
	Dimension	Tolerance	Lower limit	Upper Limit	Quality Specific Operator Specific (Both)
A	354.43mm	±5mm	349.43mm	359.43mm	1st off, last off & in process
B	148.50mm	±5mm	143.50mm	153.50mm	1st off, last off & in process
C	204.71mm	±5mm	199.71mm	209.71mm	1st off, last off & in process
D					1st off, last off & in process
E					1st off, last off & in process
F	---				---
G	---				---

Additional Information

Completed Assembly Dimensions:



Utilising Fully Recyclable Cardboard Packaging:

Gecko Assembly Delivery Schedule (P15185)

REDIWELD | Technical Moulding

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6-9 Newman Lane
Alton Hampshire
GU34 2QR

t. 01420 543007
f. 01420 544090
moulding@rediweld.co.uk

www.rediweld.co.uk/moulding

Mr Stephen Richardson
Co-Founder of:
Connected Kerb

Delivery Schedule & Quality (Testing)

Our Ref: PN/BM/SR
Date: 2nd June'20

Gecko V.1.2 Assembly Supply & Demand Schedule

There are many factors that remain unresolved to allow the undertaking of manufacture of components & Sub-assemblies related to the Full Assembly build of Gecko Version 1.2.

As it stands the following items require a conclusion before regular demand of assemblies may continue;

- Colour/s of Gecko Assembly is to be determined, (Awaiting URGENT response from CK).
- Quality Control & Electrical Testing, (CK is to send Test Procedure & Equipment for use @ Rediweld).
- Packaging, (Initial Concept supplied to Warrington – CK to confirm acceptance & Sign-off).
- Awaiting final Lead-time confirmation from Supply for the Gecko Assembly items.

At the time of Rediweld ROM Cost the Greenflux Wi-Fi Board pricing was unresolved.
(An increase difference for the Packaging of the assembly was NOT included @ £12.25 each).

	FULL ASSEMBLY PRICES (Ex-works) (Packaging is Included)		
Assembly Batches	250-999off Batch (Full Assembly) £/each	1,000-4,999off Batch (Full Assembly) £/each	5,000-9,999off Batch (Full Assembly) £/each
(Full Assemblies)	£ 301.13	£ 289.98	£ 279.79

Considering the above outstanding items is complete and supply chain has fulfilled their requirements to the set lead-times. Rediweld will be capable of supplying 35-50off Assemblies per day based on an initial start-up Lead-time of 8-10 weeks (Call off Order to be sent in by 15th June'20).
This is to meet 1,000off Gecko Assemblies per month.

Delivery Schedule (2020)

	June'20	July'20	Aug'20	Sept'20	Oct'20	Nov'20	Dec'20
	Orders Rec'd →						
Grey	50	50	250	500	1000	1000	500
Black	0	50	50	0	0	0	0

This Delivery Schedule is Valid for 30 days from above date & is subject to our Standard Terms & Conditions of Sale – Payment 30 days from Invoice Date.

I trust that the above meets with you approval. If you have any questions please give me a call.

Yours sincerely

Paul Norman

Paul Norman
(Director)

E & O E