RFS

Information and Reference Guide

MSA Gallet F1XF

Version 2.0

NSW GOVERNMENT

Document control

Release history

Version	Date	Author	Summary of changes
1.0	10/05/2024	C. Sanders	Initial Creation as FAQ document
2.0	21/08/2024	C. Sanders	Update post roll out

Approved by

Name	Title	Signature	Date
N. Medianik	A/Director Logistics and Equipment		22/08/2024

Related documents

Document name	Version
MSA Gallet F1X Operating Manual	

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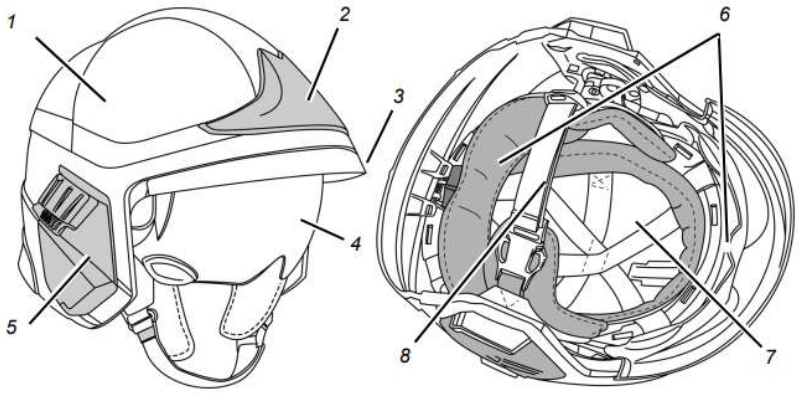
Name	**MSA Gallet F1XF** also referred to as RFS Structural Helmet
Use	The purpose of the MSA Gallet F1XF is as head protection for structural and village firefighting, in line with relevant training.
Construction/ Components	The helmet consists of the following components:  1 Shell 2 Front plate 3 Face shield 4 Ocular visor 5 Kitfix mask adaptor 6 Inner ring with headband assembly 7 Impact liner 8 Chin strap
Operation	The MSA Gallet F1XF must be used in line with existing RFS training, including BAO21 & SFF19. **External visor:** – Provides increased impact and radiant heat protection – When in the down position and using SCBA/CABA, the external visor may fog up. – When not using SCBA/CABA, the visor should be down to provide impact protection when undertaking firefighting or cutting/griding. **Note:** Additional eye protection via safety glasses is still recommended when cutting/grinding. **Communications Unit & Push to Talk (PTT) Unit:** – Provides increase comm – One helmet is donned, move the boom mic to in front of SCBA/CABA speech diaphragm. – Plug the helmet communications unit, the Nexus plug, into the PTT unit connected to the portable radio. – Depress the button on the front of the PTT to talk.

	– When no PTT is in use, the Nexus plug can be mounted into the rear of the Communications unit. **Integrated Torch:** – Depress the yellow button on the right hand, inner side of the helmet to turn torch on & adjust brightness. – Hold the yellow button to switch off.
Maintenance	No regular maintenance is required on the MSA Gallet F1XF other than cleaning. Minor repairs can be undertaken by RFS members in accordance with the instructions provided in the MSA Gallet F1XF Operating Manual. **Decontamination/Cleaning:** **Important:** Always wear proper PPC including gloves, respiratory protection and eye protection (if required) when decontaminating equipment. – The helmet must be decontaminated after exposure to smoke or toxic materials. – Remove soft materials including neck flap and lining (padding). These should be washed with other garments – See Operational Protocol Asbestos and Hazardous Materials – Clean outer shell and face shield using warm soapy water and Non-abrasive cloth, such as Chux™. Do not use alcohol-based cleaners. **Inspection:** – A quick ready *for use* inspection should be performed before use – A thorough inspection should be performed regularly to check for: – No fractures or cracks to the shell or liner – No significant wear – All straps, liner and anchor points are in good condition and functioning. **Disposal:** – The MSA Gallet F1XF does not have a fixed lifetime, but it must be disposed of if damaged, including: – Drops/Impacts/Fire/heat damage to the shell Damaged helmets should be reported to Districts and removed from service. – To maximise the life of the helmet: – Ensure the helmet is properly cleaned after each use.

1 Quick Reference Guide

	– Utilise a helmet cover whilst in hot cell environments to limit heat and smoke damage. – Store helmets in cool, dry and dark locations out of direct sunlight. It's also best to store the helmet in the bag supplied. Do not store structural helmets in vehicles or where they may be exposed to UV.
Safety	The MSA Gallet F1XF must be used in line with RFS training and OPGs No specific safety requirements exist.
Procurement	**Helmet:** – Helmets are available on the SAP Catalogue as either "Kit" or "Helmet Only", note price difference between options. – **Kit:** Full helmet kit with light, communications unit and markings, as per rollout. Should be ordered for new members/newly qualified members. – **Helmet Only:** Helmet kit with light and markings, but not communications unit. – Name details must be sent to MSA (aus.customerservice@msasafety.com) after raising an order. **Decals/Stickers:** – Name decals/stickers: Order via SAP catalogue and notify MSA of "First initial.Last name" details – Rank decals/stickers: Order via SAP catalogue, held in stock by RFS warehouse **Push to Talk Units:** – Available for portable Motorola, Tair and Icom radios and can be ordered via the SAP catalogue. **Spare and Additional Parts:** – Various additional accessories are available via the SAP catalogue. Additional accessories available via MSA if required.
Additional Resources	MSA Gallet F1XF: RFS Rollout and Frequently Asked Questions MSA Gallet F1XF Operating Manual MSA Gallet F1XF Quick Adjustment Guide MSA Gallet F1XF: How to Use Video MSA Gallet F1XF: Care and Maintenance Video MSA Gallet F1XF: Adjustment Video MSA Gallet F1XF: Cleaning Video MSA Gallet F1XF: Assembly and Disassembly Video

2 Selection

2.1 MSA Gallet F1XF

The MSA Gallet F1XF is a 'Euro' or 'jet' style helmet, which covers to the back of the head instead of having a brim. The helmet also extends to cover the ears, providing additional protection.

The MSA Gallet F1XF does have a minor increase in weight compared to the Bullard, however with a lower of centre of gravity, the helmet will feel more secure to the head.

Multiple user trials with RFS volunteers were undertaken prior to selection, with the F1XF scoring consistently high in comfort and fit, despite its increased weight.

The MSA Gallet F1XF also has a range of accessories that come with the helmet, including an outer face shield, integrated light and communications unit.

Figure 1: General Layout of helmet

2.2 Helmet Kits

Each helmet is supplied as a kit, in an individual box with storage bag. The helmets come with all selected accessories attached, and fully marked. Helmets purchased after the rollout will continue to be supplied in this way.

Helmet kits are available in two options:

Full Kit:

- The helmet shell, in the appropriate colour
- RFS marking stickers
- Name sticker (as nominated on the order)
- RFS rank stickers (as required)
- Front outer visor

- Nomex™ neck curtain
- Communications system: Boom mic with twin speakers and Nexus connection
- Integrated light on each side of the helmet.

Replacement Kit:

The replacement kit is the same as the Full kit without the communications system.

2.3 Helmet Accessories and Features

2.3.1 Front Outer Visor

2.3.1.1 Use:

The outer visor provides impact protection when a SCBA/CABA mask is not being worn. Due to the close fit when wearing a SCBA/CABA mask, the visor may impact the mask or fog up when in use. As such, it's recommended to not use the outer visor whilst a SCBA/CABA mask is worn, except in situations with very high radiant heat exposure.

SCBA/CABA masks have a level of impact protection, which will provide protection against most impacts and radiant heat. However, some instances will require additional protection which will require the outer visor.

The outer visor should be used when conducting other operations without the SCBA/CABA mask as the protection from impacts and radiant heat.

2.3.1.2 Maintenance:

Basic care of the visor should only require cleaning of the visor as part of cleaning and decontamination processes. To clean, use warm soapy water or SCBA/CABA cleaning fluids such as Trigene, and a clean fibre cloth such as Chux.

DO NOT use alcohol-based cleaners as they will damage the material, and its coatings.

There should be no need to perform maintenance on the visor unless it has been damaged. The visor can be removed by releasing the sides of the visor from the mounting tracks.

2.3.2 Nomex™ Neck Curtain

2.3.2.1 Use:

Each helmet is supplied with a Nomex™ padded neck curtain, which provides protection from both radiant heat and material dropping down the back of the neck. The neck curtain must be fitted to the helmet whenever it's in use.

2.3.2.2 Maitenance:

The neck curtain should be cleaned and decontaminated along with other structural PPC. To do this, remove the neck curtain from the helmet by releasing the yellow tabs at the top of the curtain.

To replace the curtain, simply re-fit the yellow tabs into the appropriate holes in the rear of the helmet.

Figure 2: Standard Nomex™ neck curtain

2.3.3 Communication system

Each helmet is supplied with a communications system which includes a boom mic and two speakers. The system is fitted with a Nexus style plug, which is connected to a Push to Talk (PTT) unit, worn on the structural PPC.

Due to the flash hood and SCBA/CABA mask, the communication from the boom mic and speakers will not be as clear as regular communication, however it will provide an improvement beyond standard radio handpieces.

2.3.3.1 Use:

To use the Communication system:

1. Pull the boom microphone into position in front of the speech diaphragm on the SCBA/CABA mask
2. Connect the Nexus plug into the Push to talk (PTT) unit, connected to a portable radio
3. Depress the large button on the front of the PTT

To stow the Communication system:

1. Remove the Nexus plug from the PTT, if required this can be stowed in the yellow clip on the back of the communications system in the helmet
2. Gently push the boom microphone back into position.

Never force the boom microphone as it may become damaged.

Note: Due to the limitations of the communication system, it's recommended that a standard radio handpiece is used when not conducting firefighting, including BACO or command and control.

The new communication system is different to the system used by FRNSW, and users familiar with that system will need to re-familiarise themselves with the RFS system.

2.3.3.2 Maintenance

The communications system should be cleaned along with the other hard components of the helmet as part of decontamination processes. The system should be cleaned using SCBA/CABA cleaning fluids (Trigene) and a fibre cloth.

The communications system is a fully sealed unit, with no items requiring maintenance. However, should the communications unit require replacement, or more thorough cleaning it can be removed from the helmet by releasing the large yellow tab on each speaker.

To replace the helmet remount each speaker by first placing the 'A' tab into the 'A' slot, and then placing the 'B' tab and locking in place. The cable between the two speakers must run above the cradle to avoid getting tangled.

2.3.4 Integrated light

Each helmet is fitted with integrated LED lights on either side. The lights are fixed, pointing down to assist in seeing the ground below the user, or the area immediately in front of the operator. It is primarily designed to assist with seeing hands while undertaking small tasks, like checking a regulator, or checking branch flow volumes. For this reason, helmet torches should be used in conjunction with other SCBA/CABA torches worn on the PPC or SCBA/CABA set.

2.3.4.1 Use

To use the lights simply locate the yellow press switch on the right-hand side of the helmet:

- Press the yellow button once to turn the lights on.
- Press the yellow button again to switch from low power to high, and back again.
- Hold the switch to turn the lights off.

The switch may be difficult to access whilst gloves are worn, and its recommended to turn the lights on as part of the donning process.

2.3.4.2 Maintenance

The lights are battery operated, which are accessible on the inside left-hand side of the helmet via a Torx™ head screw. Once the screw is released the cover of the batteries can be unclipped and the batteries replaced before the cover is refitted and the screw tightened. Only replace the batteries in a clean environment, away from other contaminants, such as post clean at the station.

The other components of the integrated light system are not user serviceable, and any servicing must be undertaken by MSA.

Figure 3: Integrated Light battery housing

2.3.5 Marking Kit

Each new helmet will be delivered with the marking kits already fitted. Should issues be found with the marking kit fitted to the helmet, contact your District to resolve the issue with MSA.

Each helmet will be marked in line with Service Standard 1.1.2. *Ranking and Rank Insignia.* This includes the base colour of the helmet and any crown stripping. In addition to this, each helmet will include:

- All high visibility marking, in line with the Australian standard.
- RFS crest on the front of the helmet
- 'Battenburg' marking on the rear of the helmet
- "RFS" on each side of the helmet
- Members name in the format "First initial"."Last name"
  for example, John Smith, will be J.Smith

All retro-reflective (high visibility) markings related to the Australian standard must not be removed or modified, however rank and name stickers may change over the life of the helmet.

Not other stickers outside the approved marking is allowed.

2.3.5.1 Replacement Markings:

Replacement markings are available should the ones on the helmet be damaged, or a change of rank/name is required.

- Replacement rank stickers are available via SAP and shipped via the RFS warehouse
- Replacement RFS markings (crest and Battenburg) are available via SAP and shipped via the RFS warehouse
- Replacement name stickers can be ordered via SAP with the name details provided to MSA (aus.customerservice@msasafety.com) with the purchase order details.

All replacement stickers will need to be fitted locally.

2.3.6 Additional Accessories

Additional accessories are available for the helmet via the SAP catalogue:

- Aluminium helmet cover
  - An aluminium cover for the helmet is available to provide additional protection to the helmet when used in a hot cell, to prevent damage or discoloration of the shell
  - The aluminium covers are available in large and medium to suit the appropriate helmet size.
  - 15 Medium and 15 Large covers have been provided per RFS hot cell.
- Ocular Visor
- An inner ocular visor is available to clip into the helmet via the mounting lugs located on the inside, sides of the helmet, adjacent to where the outer visor mounts.
- The ocular visor provides close in eye protection, when a BA mask is not being worn.
- However, it does add additional weight to the helmet for an item used infrequently. Instead safety glasses, or the included face shield can be used when undertaking cutting or other activities requiring eye protection.
- Aluminium neck curtain
  - An aluminium neck curtain is available in place of the Nomex™ curtain.
  - The aluminium neck curtain allows for greater heat reflection, as well as easier decontamination.
  - However, the aluminium neck curtain is not available with a slot for the cradle adjustment knob to pass through, making fitment of the helmet more difficult.

All spare parts and accessories are available via the SAP catalogue.

2.3.7 Additional Fittings

The MSA Gallet F1XF is also setup to accept additional accessories, which have not been selected by the RFS. As the mounting point for these accessories is part of the overall helmet design, RFS Gallet F1XF will still be fitted with the mounting points, but the accessories won't be available.

These additional items are:

- SCBA/CABA mask hooks
  - Mounting points to attach a SCBA/CABA mask to the outside of the helmet.
  - Not selected as the current RFS SCBA/CABA masks are not compatible.
- External torch mounts
  - Mounting points to fit an additional side mounted torch, similar to the BR9 torch
  - Not selected as the torch can create snag point when conducting firefighting.

Figure 4: Side of helmet, with SCBA/CABA mask hook and external torch mounts

2.4 Sizing and Adjustment

2.4.1 Helmet Size

The F1XF comes in two sizes: medium and large. To determine which helmet is best sized to your head, it's best to measure the circumference of your head. There is some adjustment in the sizing, however it's best to get the most accurate measurement possible, whilst wearing flash hood and SCBA/CABA mask.

Using a dressmakers/seamstress/tailors tape, measure the circumference of your head above the ears and roughly inline with your temple. The measurements should equate to:

- 52-62cm = Medium
- 57-65cm = Large

For those less than 52cm, a small head pad/spacer is available to be added to the Medium helmet.

If you don't have a soft tape, you can use a piece of string, then lay it flat and measure appropriately.

2.4.2 Adjusting the helmet

Once the correct size of helmet is selected, a further six points of adjustment are available to ensure that the helmet is best suited to the user.

Please note, it's recommended that all sizing is done during training and with and without a SCBA/CABA mask and flash hood, in order to get the best result. All adjustments should be done well before the helmet is used in live fire environments.

2.4.3 Steps to adjust helmet:

1. Adjust the helmet band circumference by twisting the adjustment knob at the rear. Clock-wise to decrease size and counter clock-wise to increase size.
2. Adjust the tension of the chin strap, by tightening the buckle.
3. Adjust the two rear straps, by tightening each buckle to improve balance on your head.
4. Adjust front headband position and angle to change the angle the helmet sits on your head.
5. Tilt the rear angle adjustment to change where the rear band sits on the head.
6. Adjust the straps inside the helmet liner to the height that the helmet sits.

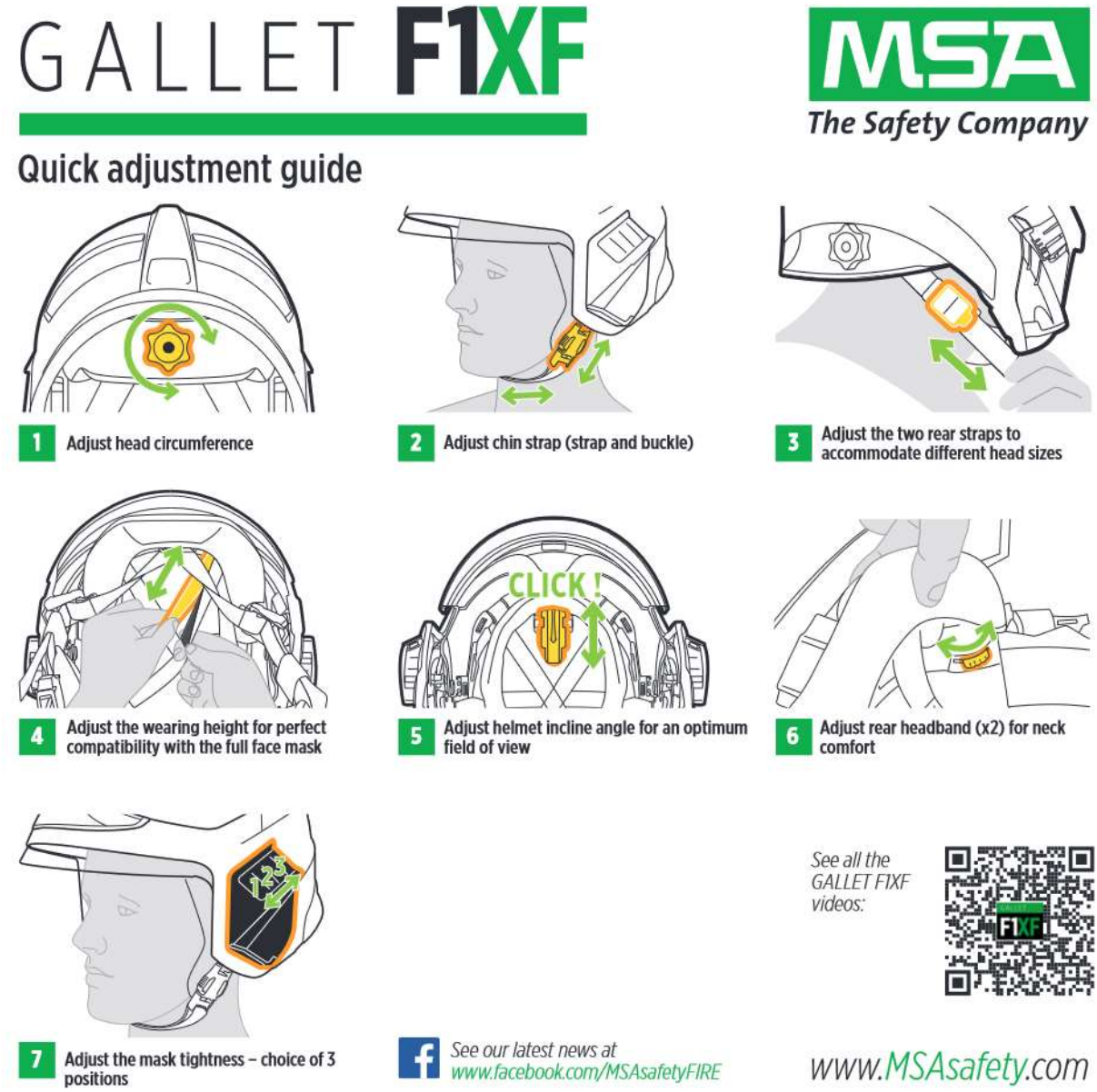


Figure 5: Quick Adjustment Guide

2.5 Push to Talk Unit (PTT)

A PTT unit is required to enable the communications unit in the helmet to interface with RFS radios. The RFS has selected the Titan™ MM50 PTT unit as part of the rollout, which is available for Icom, Motorola and Tait portable radios.

The PTT unit is a hand piece which connects to the microphone in jacks on the portable radio. In this configuration it can be used like any other portable radio microphone.

The Titan™ PTT has a socket on top to connect the Nexus plug of the helmet communications unit. This should be done as part of the donning up procedures.

Three models of Titan™ PTT have been made available via the SAP catalogue:

- Motorola portable GRN radio
- Tait and Icom portable fireground radios

Once connected, the speakers on the helmet communications unit will work in line with the radio. To talk, simply press and hold the large PTT button on the Titan™ unit and talk into the boom mic.

It's important note, even with the communications units and PTT, communication whilst undertaking SCBA/CABA activities is difficult and can sound muffled.

- Always speak slowly and clearly.
- To avoid the sound being muffled by air sounds, ensure you take a deep breath before pressing the talk button.

Like other radios, it's best to put the PTT unit is a place where it's easy to use but isn't in the way.

A PTT unit has been provided to each active SCBA/CABA set for structural qualified brigades. Additional Titan™ PTT's can be purchased beyond the initial rollout via the SAP catalogue.

Note: If communication issues are encountered in the field, the Nexus plug may be removed from the PTT, which can then be used as a normal remote-service-microphone.

Figure 6: Helmet with Push to Talk (PTT) connected

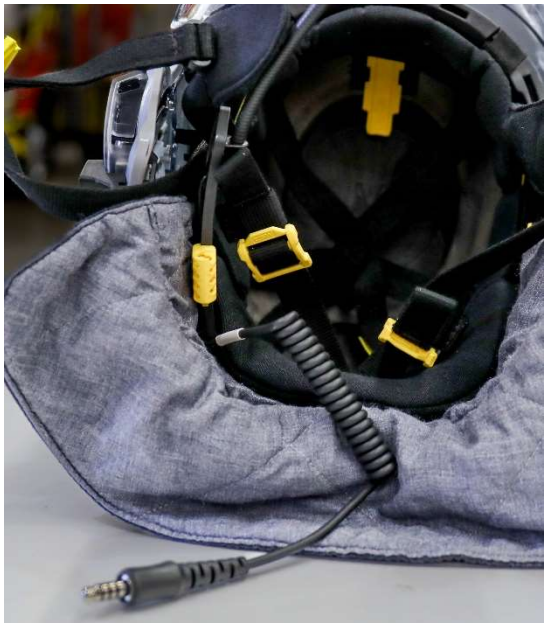


Figure 7: Yellow mount for Nexus plug

3 Usage

3.1 Operational Usage

3.1.1 When should the new structural helmet be worn?

The MSA Gallet F1XF structural helmet is designed to provide increased protection when undertaking structural firefighting.

The new structural helmet must be worn when undertaking any structural firefighting.

It's also recommended that, if the helmet is available, it is worn when undertaking any firefighting where SCBA/CABA is worn due to the enhanced communications.

3.1.2 When shouldn't the new structural helmet be worn?

Due to the increased mass of the helmet, there are situations when General Purpose helmet, the Pacfire BR9 is a better choice than the MSA Gallet F1XF structural helmet, if it is available.

If the F1XF is the only helmet available at the time, it must be worn to ensure proper head protection. Concerns around helmet weight are less significant that the potential risk of no head protection.

Incidents where it's recommended to wear the RFS General Purpose BR9 helmet instead of the new Structural firefighting:

- Bushfire fighting
- Support work, or any jobs where fire is not present (i.e. storm & tempest, MVAs etc)
- Rescue incidents, with no threat of fire
- BA Control Officer (BACO)

3.2 Additional usage

3.2.1 Bullard structural

The Bullard PX structural helmet still meets relevant standards for structural firefighting and can be worn as required. It is however recommended that the Bullard is reserved for training or as a spare helmet, and the MSA Gallet F1XF is used as the primary structural helmet in order to maximise safety and promote a common branding of RFS members.

The final determination about the use of Bullard helmets is at the District's discretion, who may choose to maintain a stock for training.

3.2.2 FRNSW Helmets

The FRNSW MSA Structural helmet is not to be worn by RFS members at incidents, as FRNSW and RFS helmets have different rank colours, markings, and livery.

For those members of the RFS who are also members of FRNSW, the helmets, like other PPC/PPE should not be interchanged.

3.2.3 Training

It's important to become familiar with the new RFS structural helmet as part of training before attending incidents. It is recommended that the helmet, is worn as normal for all training activities.

Ideally a number of cold-cell and non-active training sessions before proceeding to hot cell and incidents, to ensure you are familiar with helmet donning, operations, adjustment and doffing.

When undertaking training in a hot fire cell, it is strongly recommended that an aluminium helmet cover is fitted to the helmet. This will assist in reducing discoloration to the helmet shell due to smoke and heat. The helmet will perform the same with or without the cover, however the cover will reduce the amount of cleaning required after hot cell exposure. The cover will also reduce the chance of the helmet becoming discoloured (heat damaged) due to excessive heat exposure.

Aluminium helmet covers come in Medium and Large sizes, and are available via the RFS SAP catalogue.

30 helmet covers have been provided to each RFS hot cell, as part of the initial rollout.

3.3 Disposal

The MSA Gallet F1XF does not have a fixed lifetime, however it must be disposed of if it becomes damaged.

Damage to the helmet includes:

- Damage from dropping the helmet causing cracks
- Impacts
- Fire/heat damage to the shell

Heavy impacts to the helmet will damage the shell and/or the inner liner which may compromise the safety performance of the helmet and must be replaced.

3.3.1 Inspection

Inspection of the helmet must be carried out at least once every 12 months, and after every time the helmet is used in a hot cell or live fire. Inspection of the helmet includes:

- No fractures or cracks to the shell or liner

- No significant wear
- All straps, liner and anchor points are in good condition and functioning.

If damage occurs to replaceable components (cradle, visors etc) they should be replaced. MSA Australia are also able to assist in inspecting helmets and repairing if required.

Helmets that are in storage should also be inspected at least every two (2) years, and before issuing to members.

3.3.2 Caring for the helmet

To maximise the life of the helmet:

- Ensure the helmet is properly cleaned after each use.
- Utilise a helmet cover whilst in hot cell environments to limit heat and smoke damage.
- Store helmets in cool, dry and dark locations out of direct sunlight. It's also best to store the helmet in the bag supplied.
  Do not store structural helmets in vehicles or where they may be exposed to UV.

Should the helmet be damaged, it must be replaced with a new helmet. The communications unit should be removed from the damaged helmet and fitted to the new helmet, unless it has also been damaged.

Options are available on the RFS catalogue for both a full kit, helmet with communication unit, and a helmet only kit, without the communications unit.

4 Construction and Components

On completion of the rollout, the responsibility of purchasing additional or replacement helmets and components shall be with Districts. Engineering shall close out any additional helmets required at the end of the rollout.

All additional/replacement helmets are available via the SAP catalogue.

Please note that material numbers may change over time, and any numbers referenced in this document may be out of date.

4.1 Additional and Replacement Helmets

Additional helmets are available via the SAP catalogue for purchasing at any time. All helmets are listed in rank and size, and as such it's important to order the correct option.

MSA has helmets in stock of white, red and orange, however specialist colours will require up to 12 weeks to manufacture and ship from Europe.

Helmets ordered after the rollout will won't be supplied with communications units as standard. This will need to be ordered separately for new members or for replacement helmets this isn't required.

4.1.1 Name Stickers on Helmets

When ordering helmets, it's vital that names are supplied on the order for each helmet. This can be achieved by two methods:

Option 1 (preferred)

SAP Purchase Order Text:

1. Select the appropriate Structural Helmet and add to shopping cart (ensure Communication units are added as needed)
2. In the shopping card select "PO Text"
3. Under "PO Text Material" add the Members details in the format *"First initial" "Last name"*
4. Repeat for each line item
5. Under "PR Header Text" add contacts details of who raised the PO, including an email address.

Option 2:

Once a Purchase order has been raised email MSA (aus.customerservice@msasafety.com) with the details of the Purchase Order and the appropriate name stickers.

MSA will not ship orders until they receive name details.

4.2 Name Stickers/Decals

Name stickers can be ordered via the SAP catalogue or via contacting MSA directly and ordering via Coupa. When ordering name stickers you must notify aus.customerservice@msasafety.com with the details of your purchase order and all names.

Names will be in the format: *"First initial" "Last name"*

It may take a fortnight to produce new name stickers, as they are produced in batches.

4.3 Rank Stickers/Decals

Rank stickers will can be ordered via SAP catalogue. Please note that rank stickers are size dependant, and it's important to order the correct sticker for the size of helmet.

Rank stickers will come with the other stickers required for the helmet, should they be damaged.

4.4 Push to Talk

Additional Push to Talk units can be purchased via the SAP catalogue for portable Motorola, Icom and Tait radios. These devices are used to integrate into the MSA helmet communications units, as well as other items of equipment fitted with Nexus plugs.

4.5 Accessories and replacement parts

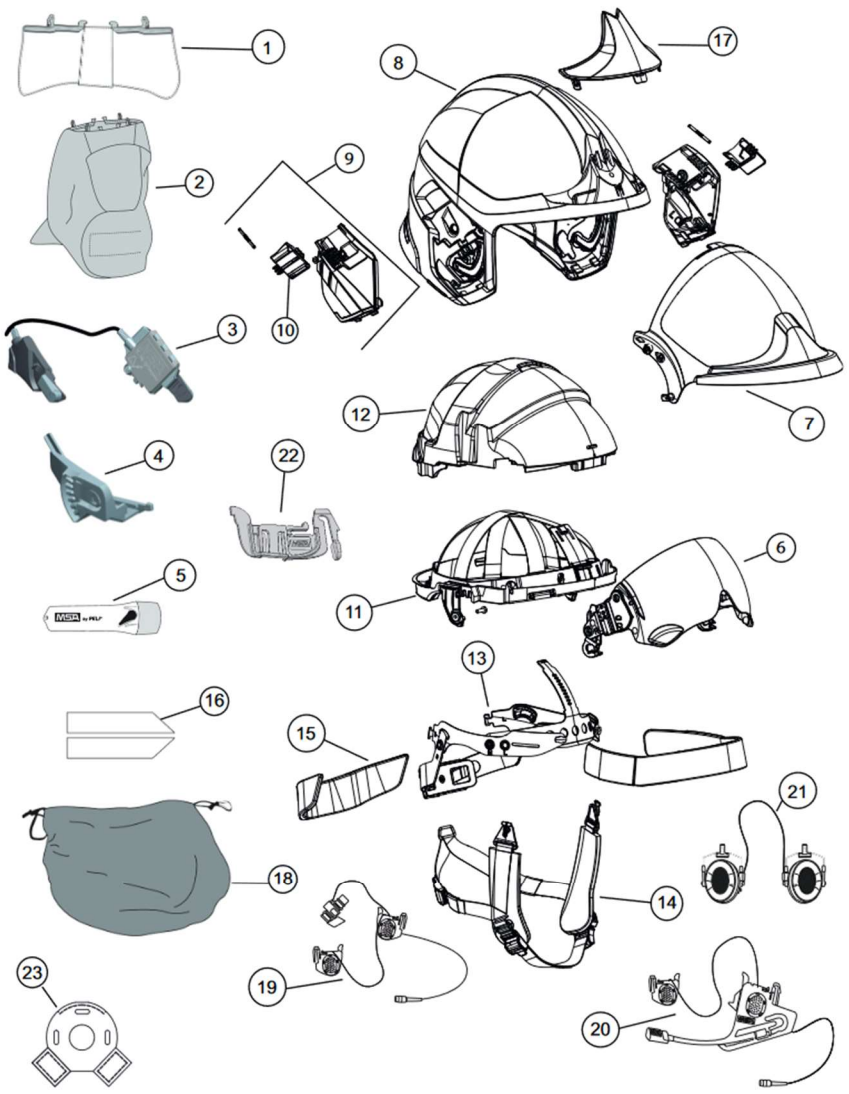
Additional accessories are available on the SAP catalogue to suit the MSA Gallet F1XF. This includes:

Material #	Material Name	Description	MSA Image No.
702869	Structural Helmet Face Shield	– Replacement external Face Shield	7
702870	Structural Helmet Lighting Module	– Replacement lighting module, that includes the left and right torches and switching.	3
702871	Structural Helmet Neck Curtain Nomex™	– Standard neck flap/curtain supplied with every helmet	1b
702872	Structural Helmet Communications Unit	– Communications unit, which includes boom mic plus twin speakers	20b
702873	Structural Helmet Suspension Assm Med	– Replacement internal suspension assembly, for medium sized helmets	11
702874	Structural Helmet Suspension Assm Lge	– Replacement internal suspension assembly, for large sized helmets	11
702875	Structural Helmet Impact Liner Med	– Upper impact component inside helmet, medium helmets	12
702877	Structural Helmet Impact Liner Lge	– Upper impact component inside helmet, medium helmets	12
702879	Structural Helmet Ratchet Cradle	– Replacement internal cradle assembly	13
702880	Structural Helmet Ratchet Chinstrap	– Replacement chinstrap	14a

Material #	Material Name	Description	MSA Image No.
702881	Structural Helmet Impact Inner Padding	– Replacement padding inside helmet	15a
702943	Structural Helmet Chinstrap Loop x10	– Replacement chin strap loops, – supplied in packs of 10	22
702944	Structural Helmet Small Padding	– Padding to convert a Medium sized helmet to Small	Not shown
702945	Structural Helmet Front Plate Black	– Replacement front plate – New RFS Crest decal required	17
702946	Structural Helmet Hot Cover Med	– Aluminium protection cover for helmet – Medium sized	Not shown
702947	Structural Helmet Hot Cover Leg	– Aluminium protection cover for helmet – Large sized	Not shown
702948	Structural Helmet Inner Visor Clear	– Inner visor – Additional accessory not supplied in initial rollout	6a
702949	Structural Helmet Neck Curtain Alum	– Alternate neck curtain with aluminium protection to replace Nomex™ option – Note: does not have hole to access adjustment ratchet	1

Table 1: List of Accessories for MSA Gallet F1XF

Please note that additional accessories are available from MSA, although they have not been included as they are deemed not required via testing and evaluation. If you're unsure, please contact Engineering before ordering additional accessories.



No	Part		Part. No	
1a	Aluminized neck curtain F1XF, 3 layers		GA1116F	
1b	Nomex neck curtain F1XF		GA1116C	
1c	Wool/Nomex neck curtain F1XF		GA1116D	
2a	Integral Wool/Nomex neck curtain F1XF (Size Medium/Large)	GA1116B-M	GA1116B-L	
2b	Integral aramid neck curtain F1XF	GA1116E-M	GA1116E-L	
3	Lighting module F1XF		GA1484	
4	Torch lamp support F1XF (D: right/G: left)	GA1485D	GA1485G	
5a	Lamp XPS		GA1488	
5b	Lamp XP LED		GA1464	
5c	Lamp XS zone 0		GA1466	
5d	Lamp AS-R		GA1481	
6a	Ocular visor kit F1XF, EN14458, clear		GA1087A	
6b	Ocular visor kit F1XF, EN14458, tinted		GA1087B	
7a	Face shield F1XF, EN14458, clear		GA1086A	
7b	Face shield F1XF, EN14458, metalized		GA1086B	
8	Shell F1XF, Painted, (Size M: Medium/L: Large)	GA1090-xxM	GA1090-xxL	S
9	Kitfix F1XF		GA1092A	
10a	Kitfix F1XF mobile		GA1092B	
10b	Kitfix F1XF mobile, PN		GA1092C	
11	Suspension F1XF, EN443, (Size M: Medium/L: Large)	GA1094-M	GA1094-L	S
12	Impact liner F1XF, EN443, (Size M: Medium/L: Large)	GA1095-M	GA1095-L	S
13	Ratchet cradle F1XF		GA1098A	
14a	Chinstrap F1XF, textile		GA1128A	
14b	Chinstrap F1XF, leather		GA1128B	
15a	Textile paddings, F1XF		GA1129A	
15b	Leather paddings, F1XF		GA1129B	
16	Retroreflective stickers F1XF (Size M: Medium/L: Large)	GA1136-xxM	GA1136-xxL	
17	Front plate F1XF		GA1150-xx	
18	Protective bag for helmet		GA1382	
19a	Headset Bone Conductive Microphone F1XF		GA010002A3X	
19b	Headset Bone Conductive Microphone F1XF 2ls		GA010002A3AX	
20a	Headset Boom Microphone F1XF 1ls		GA010002B3X	
20b	Headset Boom Microphone F1XF 2ls		GA010002B3AX	
21a	Hearing F1XF Protect.Bone Conduct.Micro.		GA010002C3X	
21b	Hearing Protection Boom Microphone F1xf		GA010002D3X	
21c	Hearing Protection F1XF		GA010002E3X	
22	Set of 10 headset interfaces for F1XF		GA1131	
23	OSTEO interface for F1XF		GA010007062	

Figure 8: List of MSA Gallet F1XF Accessories (Link)

4.6 Roles and Responsibilities

Although the helmets were initially rolled out by Engineering, with the transition to business as usual (BAU), there shall be a shift in the responsibilities for managing helmets.

Stakeholder	Responsibilities
Members and Brigades	– Responsible for taking care of equipment and ensuring damage is not beyond reasonable wear and tear – Inspecting the helmet before use to ensure it's still fit for purpose and reporting any damage or issues to the District. – Cleaning the helmet after use, and ensuring that the helmet is maintained as per other RFS equipment
Districts	– Responsible for purchase of replacement or additional helmets and replacement name and rank stickers. – Goods receipting and issuing of any additional orders – Ensuring additional helmets are issued accordingly in SAP EAM – Ensuring maintenance and repairs on issued helmets is undertaken in line with manufacturer's instructions
Logistics	– Working with MSA to ensure adequate stock levels are available – Working with Districts to provide forward forecasting of helmet quantities – Holding stock of rank stickers
Engineering	– Management of specifications and information on helmets – Close out of Rollout details
MSA (Vendor)	– Maintaining adequate stock levels to meet RFS needs – Ongoing supply of helmets and parts, including PTTs – Repairs on existing helmets – Provision of name stickers.

4.7 Purchasing

On completion of the rollout, the responsibility of purchasing additional or replacement helmets and components shall be with Districts. Engineering shall close out any additional helmets required at the end of the rollout.

All additional/replacment helmets are available via the SAP catalogue.

Please note that material numbers may change over time, and any numbers referenced in this document may be out of date.

5 Maintenance

The F1XF should be cleaned regularly, and after every how fire exposure in order to minimise any potential damage to the helmet. Different parts of the helmet will require different cleaning regimes, depending on the level of soiling.

Cleaning should be performed as part of other decontamination procedures and should be performed as soon as possible after exposure.

It's important that no solvent-based cleaners are used on the helmet, such as acetone or alcohol, as they will damage the helmet shell and coatings.

5.1.1 Safety

If the helmet has been exposed to any kind of smoke, ensure that the appropriate PPE is worn when undertaking cleaning.

- Disposable P2 or respirator, to protect from any respirable particulates from the helmet.
- Disposable gloves
- Eye protection is not required, but flush eyes immediately if particulates or contaminated water impact the eyes

Cleaning of helmets must not be performed in 'clean' areas, such kitchens. Always dispose of cleaning materials after use.

Do not clean helmets in sinks used for food preparation.

Always wash hands after cleaning helmets, and avoid contaminating other clothing or objects with the cleaning process.

Do not keep contaminated helmets in the cabin of fire appliances, personnel vehicles or homes.

5.1.2 Outer Shell and Face Shield

Hard plastic components of the helmet, such as the outer shell and face shield should be cleaned using warm (30°C), soapy water and a non-abrasive cloth, such as Chux™. Other commonly used SCBA/CABA cleaning products can be used, such as Trigene, however warm, soapy water will be the most effective.

Once the helmet is washed down, it should be air dried before returning to service. Compressed air or drying cabinets can be used to expedite drying.

Figure 9: Cleaning outer shell

5.1.3 Neck Curtains

Nomex™ (black) neck curtains should be cleaned alongside structural PPC garments. If the neck curtain has been exposed to hazardous contamination it should be laundered in accordance with the Asbestos contaminated PPC laundering procedure. If the exposure has not been to hazardous materials, the neck curtain can be washed in a standard washing machine at 30° C with a mild detergent.

Ensure that the neck curtain is fully dried before replacing on the helmet. Only air-dry soft components, and don't use tumble dryers.

The neck curtain can be removed by releasing the four (4) yellow tabs on the rear of the helmet.

If the Nomex™ curtain has been replaced with an aluminium neck curtain, it cannot be machine washed, but can be manually cleaned like the outer shell.

5.1.4 Other Soft Components

The other soft components of the helmet, chin strap, padding etc, should also be cleaned as part of the decontamination process. These components can be removed by un-velcroing the helmet and liner, and washed in a similar process as the neck curtain. This includes using a standard washing machine at 30° C with a mild detergent, and ideally in a mesh laundry bag (to prevent damage to machine and components).

Ensure that all soft components are fully dried before replacing on the helmet. Only air-dry soft components, and don't use tumble dryers.

Figure 10: Soft components removed from helmet.

5.1.5 Aluminium Helmet Covers

Aluminium helmet covers, as used in hot cell training, must also be cleaned after use. The cleaning of these covers should be undertaken in the same way as the hard components of the helmet, using warm, soapy water and a soft cloth to wash down the cover. The cover should also

be air-dried before returning to service. Compressed air or drying cabinets can be used to expedite drying.

Helmet covers which have been used should be considered contaminated until they have been cleaned.

6 Rollout

The rollout of new structural helmets has been allocated to those members qualified in Structural Firefighter (SFF19) or the previous equivalent qualification Breathing Apparatus Operation 14 (BAO14). These qualifications align to those members that are qualified to perform internal structural firefighting, above SCBA/CABA wearers only (BAO21).

In addition to increased head protection, the new helmet also provides differentiation between Members qualifications, and thus shall not be issued to members not qualified in internal structural firefighting. Structural PPC (also known as “Limes”) shall be issued to all members with BAO qualifications.

In total, approximately 1,900 MSA Gallet F1XF helmets were issued as part of the rollout, via a generous donation from the NSW RFS and Brigades Donations fund. The rollout provided one (1) helmet to every structural firefighting qualified member, at their highest rank at the time. In addition to this, support equipment was also rolled out:

- 1,250 TitanTM MM50 Push to Talk (PTT) units, which integrate the helmet to portable radios
- These are issued at one (1) per SCBA/CABA set on active appliances
- Both portable Icom and Motorola type units were provided in the rollout, though additional versions are available
- 600 aluminium helmet covers have been rolled out, to provide protection to the helmets in training hot cells
- These are issued at 15 medium and 15 large per RFS hot cell
- Additional units can be purchased if requested.

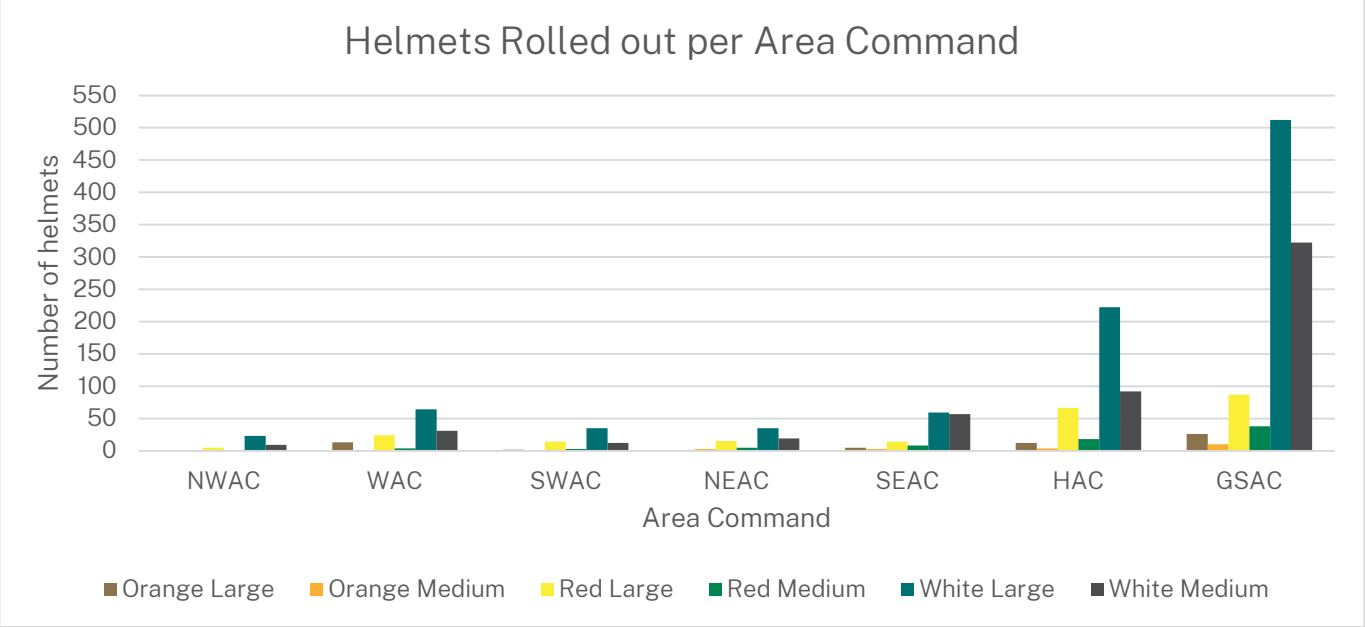


Figure 11: Number of Helmets rolled out per Area Command

RFS

Postal address

NSW Rural Fire Service
Locked Bag 17
GRANVILLE NSW 2142

State address

NSW Rural Fire Service
4 Murray Rose Avenue,
Sydney Olympic Park NSW 2127

T 02 8741 5555 **F** 02 8741 5550 rfs.nsw.gov.au

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