



HERITAGE STATEMENT

TO ACCOMPANY AN APPLICATION FOR

ADVERTISEMENT CONSENT

AT

MANCHESTER MUSEUM, OXFORD ROAD ENTRANCE

INTRODUCTION

This Heritage Statement accompanies and application for Advertisement Consent for an illuminated sign to mark the public entrance to Manchester Museum on Oxford Road and associated external lighting.

The sign and lighting form part of the works to create the new Public Entrance and associated low wall and railings, access path and steps, which have received planning and listed building consent under the following approval notices:

Planning Reference

- I24456/JO/2019

LBC References

- I24457/JO/2019
- I24458/JO/2019
- I24459/JO/2019

Variation of Conditions

- I30016/JO/2021
- I30084/JO/2021
- I30085/JO/2021
- I30085/JO/2021

The proposed illuminated sign is an integral part of the approved door design, being located above the new oak doors, but within the door frame in the 'fanlight' position. The signage will be finished in the same material as the door frame.

The external lighting illuminates the Oxford Road elevations of the Haworth Building and the adjacent Infill Building and replaces the existing obsolete floodlighting which was attached to the moat wall which the new inclined pavement approach now covers. In addition, the design includes recessed wall lights within the low level wall to the access routes to provide downlight onto the ramp surface.

HERITAGE VALUE OF THE BUILDING

Manchester Museum occupies a series of linked listed buildings on Oxford Road, the most eminent being the first built in 1888, and designed by Alfred Waterhouse. In 2003 the museum was extended to provide a new accessible entrance through the courtyard. Although greatly improving access, the courtyard arrival route has made the entrance more difficult. It has limited street presence on Oxford Road, and for this reason the project intends also to relocate the entrance.



Extract from location plan

The Oxford Road frontage consists of:

1888 Waterhouse Building

Listed Grade II*

The original Museum building designed by Alfred Waterhouse in 1882 and formally opened in 1888, this is referred to as the 1885 Building by Museum staff. It was built as part of an extension to Owens College to house the natural history collections and the building also features an imposing tower and entrance for the College as well as a grand staircase, Council Room and Curator's office, although these are no longer part of the Museum.

Further extensions to the expanding museum by the Waterhouse practice continued the aesthetic of the primary Oxford Road site. These buildings form the key view with the Whitworth Hall of the universities.

1911 Haworth Building

Listed Grade II

This extension was designed in 1911 by Paul Waterhouse and constructed the following year to house the Egyptian and ethnological collections. The design largely continues that of the 1895 Building in walling materials and window height but is only two storeys on the exterior, although the building is four storeys in height with a basement and has a lead-clad roof.

Built in Hotel de Ville style it is symmetrical with five bays and buttresses and has a two-storey arched bridge over Coupland Street at the southern end which provided access through to the 1885 Building.

The new entrance and signage are located in this building.

1913 Extension

Listed Grade II

Designed by Paul Waterhouse and constructed a year later than the Haworth Building, this small extension was built to provide further accommodation for the Egyptian and ethnological collections. It is only three storeys high with a basement in three bays and matches the bridge over Coupland Street in height but is covered with a red tile roof.

1927 Building

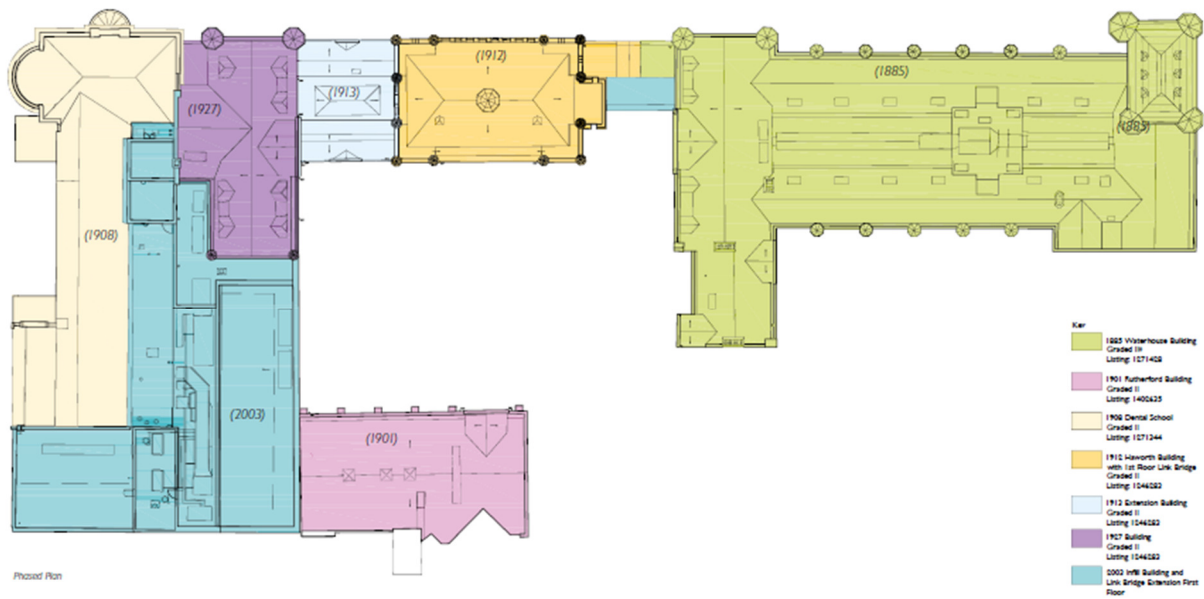
Grade II

This building was designed in two stages in 1918 and revised in 1923 by Paul Waterhouse and opened in 1927, Although the construction was overseen by Michael Waterhouse, it was intended to house growing ethnological collections and provide office accommodation for museum staff. It is six storeys high, with a basement and attic, in one wide gabled bay. The lower half is a giant arch with a projecting porch with arched doorway below and a traced window above. This formed the main entrance to the Museum when it opened and the ground floor now provides an open assembly area with a wreathed staircase, providing access to the first floor.

As the museum has expanded over the years it has incorporated the former dental hospital and parts of the Rutherford Building. A new entrance and gallery facility was developed in 2003 which created the current courtyard entrance to the complex.

Manchester Museum is of national significance due to the architectural quality of the buildings and the importance of the collections which it contains. The cultural significance is increased due to the museum being free and open to the public. The link with the wider university and the use of the collections through teaching is another key significance.

PHASING PLAN



GROUND FLOOR SIGNIFICANCE PLAN



Significance Plans, extracted from Buttress Conservation Management Plan 2010

Manchester Museum - Significance Plan
Ground Floor



STATEMENT OF SIGNIFICANCE

The Museum's Conservation Plan (2016) details the history and significance of Manchester Museum. It summarises that Manchester Museum's significance 'lies chiefly in its design by the leading Victorian architect, Alfred Waterhouse, in

its close association with the University of Manchester and in the Rutherford Building's association with Ernest Rutherford and his work in the field of nuclear physics within the building.'

Manchester Museum is the largest university museum in the United Kingdom and incorporates buildings which are listed Grade II* and Grade II in recognition of its special architectural qualities and historic interest. The buildings were listed at different dates: the 1885 Building, forming the east range of Owens College was listed at II* in 1963; the 1912-13 and 1927 Buildings were listed at grade II in 1974, the Dental School listed at grade II in 1973 and the Rutherford Building was listed grade II in 2011. Manchester Museum is important for evidential, historical, aesthetic, communal and technological reasons.

Manchester Museum's significance lies chiefly in its design by the leading Victorian architect, Alfred Waterhouse, in its close association with the University of Manchester and in the Rutherford Building's association with Ernest Rutherford and his work in the field of nuclear physics within the building.

The buildings at Manchester Museum are complex, they have grown organically as part of the development of both the museum and the wider university campus. Many of the principal spaces throughout the buildings remain relatively unaltered. This is particularly true of the galleries within the 1885 Building, the 1912 Haworth Building, and the 1901 Rutherford Building. It is worth noting the added significance of the early museum buildings remaining in the use for which they were designed.

THE PROPOSALS

The scope of this project is to provide a new public entrance on Oxford Road through alternations to the facade of the 1912 Howarth Building and minor internal modification. The redevelopment and refurbishment scope for these buildings have been based on the following key principals:

- Use the completed significance appraisal reports to inform development proposals and where possible remove more recent internal partitioning to enable the original spatial arrangement to be utilised to accommodate new brief requirements
- Use the project to complete outstanding conservation works to the external fabric of the Rutherford Building to the highest level possible within the development budget.
- Create a new hierarchy of internal circulation to provide a clear, easily understood framework by which to navigate the building.

It is proposed to take the opportunity that the alterations present to repair and conserve the external envelope of the building to a high standard, in conjunction with the proposed extension and alteration work.

ILLUMINATED SIGN

The proposed illuminated signs forms part of the new entrance door construction. The door opening is framed by a steel goalpost arrangement clad in a bronze coloured anodised aluminium cladding. The entrance doors will be clear finished boarded oak. The proposed illuminated signage will be located above the doors and will also be clad in bronze coloured anodised aluminium cladding which will be flush with the front face of the door surround with a shadow gap around it. The sign will bear the Manchester Museum logo with 'Manchester Museum' below.

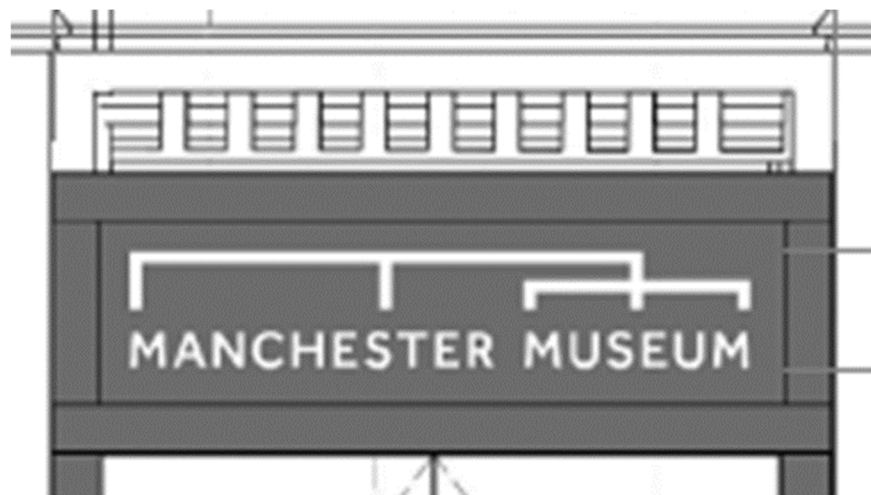
The logo and lettering will be stencil cut out of the anodised aluminium sheet and bonded onto a backing sheet of white opaque Perspex to diffuse the lighting which will be sealed within a backing box, so light does not 'leak' at the edges.



Extract from the Oxford Road elevation of the Howarth building showing the public entrance and proposed illuminated sign

The material palette is as follows:

- Anodised aluminium face material – United Anodisers Ltd – Anolok 547
- Size of signage panel – 2560 x 715mm
- 050 Perspex acrylic sheet – 3mm Opaque White (transmission value 37%)
- Lighting – 50 x 100 lumen LED luminaires to provide 3150 lumens



Finish to signage panel and cladding Image of the proposed illuminated sign

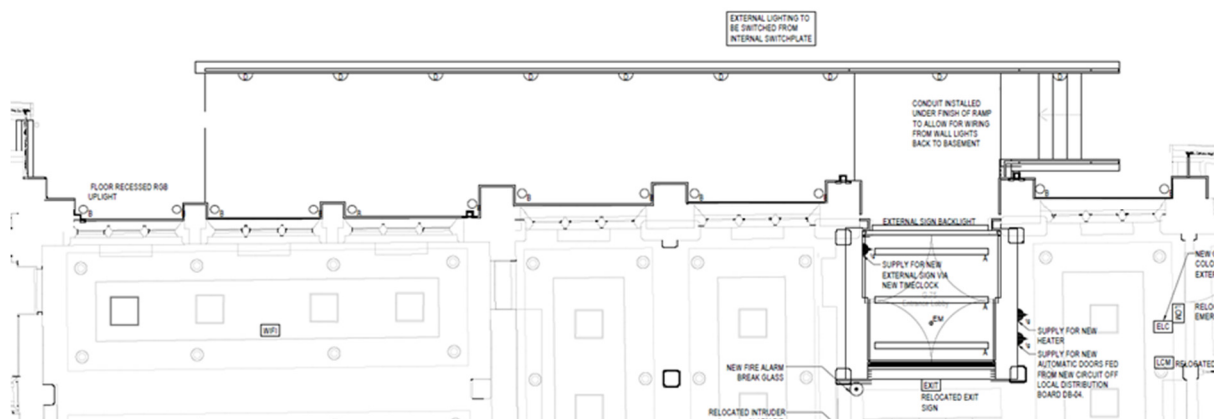
It is proposed that the sign will be permanently illuminated, to mark the entrance of this public building, to enhance wayfinding for the casual or first time visitor and to enhance legibility at night and on dull days.

The sign has been designed so that it can be readily replaced when maintenance requires renewal, or a new corporate logo needs to be included.

EXTERNAL LIGHTING

The proposed external lighting forms part of the new entrance construction; the fittings are located in the new fabric and not attached to the existing listed building.

The proposed locations are noted on the following plan extract:



Extract from proposed electrical plan, drawing 4101-G-E301

Façade Lighting:

The requirement for the external lighting to wash the building is to replace the existing flood lighting which is now obsolete and would be covered by the new access construction if left in situ. The new uplighters are recessed into the paving and the light wash can be adjusted to any colour.

TECHNICAL FEATURES



IP65-IP67 IK10



Power (W) : 17W

Total power consumption of light (W) : 18.5W

Real lumens : 618

Real lm/W : 33

Voltage / frequency : 100-240V/50-60Hz

Power Factor : 0.90

Useful life : 50,000h L80B20

Warranty : 5 Years

LEDs C4

— Gea



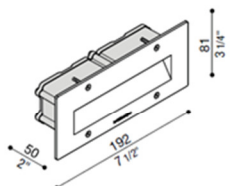
Gea is the LEDs C4 most versatile collection of recessed floor-standing as it offers a wide variety of options to cover the needs of any type of outdoor project. With a resistant and highly durable design, it is made with materials that provide special protection and processes to maximise product life. Ideal for installation in humid environments or even on the seafront. Its strong structure even allows it to be installed in areas transited by vehicles.

Specification

- Stainless steel recessed RGB LED uplighter, allowing colour change
- 12 no. uplighters x 618 lumens
- Electrical supply taken from the building in the existing location in conduit to the identified locations through the new entrance construction.

Path lighting:

The recessed wall lights will light the new access and are a requirement of the Fire Strategy/ Building Regulations to provide safe egress from the building, particularly in the event of a fire.

Fix 506				DIFF. VETRO		POSITION	
							
IP66 IK 10 20J xx9 C€							
LED	W	LM	REAL LM	COL.	CODE *	* LED COLOUR	
A++					LL120008	4 4000K	
	7,2	750	375		LL120009	3 3000K, lm -5%	
			 220-240 V		LL120010	2 2700K, lm -5%	
					LL120011		

Predisposto per doppio ingresso alimentazione.

Double cable entry at the back.

Possibilità alimentazione double entrée.



Predisposto per doppio ingresso alimentazione.

Double cable entry at the back.

Possibilità alimentazione double entrée.



Specification

- Recessed wall light with asymmetric throw and silver body located at low level in the ramp construction
- 9 no. x 750 lumens
- Electrical supply taken from the building in the existing location in conduit to the identified locations through the new entrance construction.

HERITAGE IMPACT ASSESSMENT

The Museum's Conservation Management Plan by Buttress (2016) states that Manchester Museum's significance 'lies chiefly in its design by the leading Victorian architect, Alfred Waterhouse, in its close association with the University of Manchester and in the Rutherford Building's association with Ernest Rutherford and his work in the field of nuclear physics within the building.' The proposals will not affect this close association and will not affect the highly significant principal elevations of the listed heritage assets as seen from Oxford Road or Coupland Street.

Internally, the impact on historic fabric has been kept to a minimum, although it is accepted that there will be a small loss of historic fabric in order to provide a new entrance and circulation.

The main impact of the proposals will be the creation of the new entrance to Oxford Road and new gallery. Section 66 (1) of the Planning (Listed Buildings and Conservation Areas) Act 1990 states that the planning authority 'should have special regard to the desirability of preserving the building or its setting or any features of special architectural interest which it possesses'. Also, NPPF para 132 states that 'significance can be harmed or lost through alteration or destruction of the heritage asset or development within its setting.' The high quality of design and choice of materials for the new entrance mitigates against any negative impact on the surrounding heritage assets.

The creation of the new Oxford Road entrance will have the positive heritage impact of reinforcing the historic character of entrances on the principal elevation balanced against some adverse impact associated with carefully designed physical and visual interventions to achieve this.

In summary, it is felt that the impact on historic fabric and on the setting of the heritage assets does not constitute substantial harm, and measures have been put in place to mitigate against any negative impacts which may affect our understanding and enjoyment of the heritage assets.

Methodology for Assessment

The following section assesses the impact of the proposed alterations to the heritage significance of the site. This assessment is carried out in line with Historic England's 'Conservation Principles' (2008), requirements for considering heritage impact detailed in paragraphs 193 – 196 of the National Planning Policy Framework (2019) and Conservation Plan for the site.

The assessment of impact measures the impact of proposed works upon the significance of the site detailed in Section 3 of this assessment. Our definitions for magnitude of impact are provided within the accompanying table.

PROPOSAL AND AREA OF IMPACT	COMMENTARY	OVERALL IMPACT AND MITIGATION
New additions to Oxford Road	Introduction of inclusive access along the Oxford Road elevation by means of a gentle sloped ramp (spanning 5 bays) and 4no. steps. Includes oversailing of moat area. To be formed of an ashlar stone wall with bronze handrail and (road-side) and glass balustrade with handrail (building-side). York stone paving with York stone steps.	The impact of the proposed works upon the overall significance of the Grade II listed building would be moderate-low adverse. For the same reasons, the impact on the significance of the Grade II* 1888 Waterhouse building as a result of alteration of its setting is proportionately low adverse.
	New structural steel frame (bronze finished) in former window opening with associated new entrance door of hardwood timber and bronze finish detailing.	
	With respect to impact upon the significance of the Manchester Museum extensions covered by the Grade II listing, the impact of the proposals would have little effect on the historical values of the building identified and are primarily associated with impact upon aesthetic values associated with the principal elevation to Oxford Road. While some harm is unavoidable as a result of the loss of a window and introduction of a new ramped access, the design has reduced the potential impact of this considerably by utilising an	

	existing opening (centrally located to best conserve the symmetry of the façade composition) and taking care to ensure that the ramp is quietly contextual in its design to minimise any intrusion to this important façade	
Selective removal of historic fabric	The removal of the central window and section of railings and associated alterations to the shallow road-side moat wall on the principal elevation of the 1912 extension, alongside the introduction of a new ramp with associated railings and low wall would result in the alteration of a carefully considered architectural composition. However, great care has gone into the design to ensure that the new intervention sits quietly in aesthetic terms, is sensitive to the compositional qualities of the building and can easily be identifiable as a modern intervention.	moderate-low adverse.
	The removal of the central window and section of railings and associated alterations to the shallow road-side moat wall on the principal elevation of the 1912 extension, alongside the introduction of a new ramp with associated railings and low wall would result in the alteration of a carefully considered architectural composition. However, great care has gone into the design to ensure that the new intervention sits quietly in aesthetic terms, is sensitive to the compositional qualities of the building and can easily be identifiable as a modern intervention. The structural alterations necessary to achieve this intervention would have a low visual impact as a result of short sections of selective steel beams being visible from the ramp, and the physical impact of selective fixings to the original buttresses in the manner illustrated. The necessity of the structural interventions has been established through engagement with specialist structural engineers (Burohappold Engineering) and the least intrusive method of fixing established in order to minimise heritage impact. As a result, the physical and visual impact upon the this important elevation, while not without note, would be relatively limited within its relevant context. It is also of note that these proposals would support the historic character of principal elevations with entrances to the museum along Oxford Road.	
Internal alterations	As the heritage value of internal spaces are more weighted with associative value, their alteration is less sensitive to visual change. As outlined in the statement of significance section, this area was historically open plan with spans supported by columns – an arrangement that supported its intended use. Over time, some subdivisions have been introduced between the columns. The proposed changes to the internal layout involve the removal of areas of non-original subdivision between columns, which will have the heritage impact of reopening some areas to their original open layout. This is balanced against the introduction of new subdivision of the small internal lobby area specified.	Neutral Impact

Using the above assessment the impact of the proposed signage and external lighting as part of the proposed works to the Oxford Road façade of the Haworth Building upon the overall significance of the Grade II listed building would be moderate-low adverse. For the same reasons, the impact on the significance of the Grade II* 1888 Waterhouse building as a result of alteration of its setting is proportionately low adverse.

APPENDIX A

LIGHTING TECHNICAL LITERATURE

Fix 503

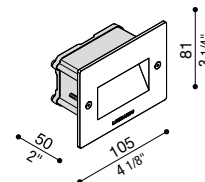
IP 66 IK 10 20J xx9 C E

LED	W	LM	REAL LM	COL.	CODE *	* LED COLOUR
A++					LL120000□	N 4000K
	4,2	450	225		LL120001□	3 3000K, lm -5%
					LL120002□	2 2700K, lm -5%
					LL120003□	

Predisposto per singolo ingresso alimentazione.

Single cable entry at the back.

Entrée d'alimentation simple.



Fix 504

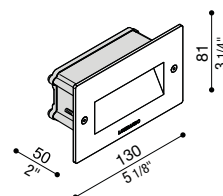
IP 66 IK 10 20J xx9 C E

LED	W	LM	REAL LM	COL.	CODE *	* LED COLOUR
A++					LL120004□	N 4000K
	5,6	600	300		LL120005□	3 3000K, lm -5%
					LL120006□	2 2700K, lm -5%
					LL120007□	

Predisposto per singolo ingresso alimentazione.

Single cable entry at the back.

Entrée d'alimentation simple.



Fix 506

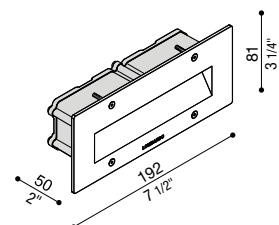
IP 66 IK 10 20J xx9 C E

LED	W	LM	REAL LM	COL.	CODE *	* LED COLOUR
A++					LL120008□	N 4000K
	7,2	750	375		LL120009□	3 3000K, lm -5%
					LL120010□	2 2700K, lm -5%
					LL120011□	

Predisposto per doppio ingresso alimentazione.

Double cable entry at the back.

Possibilità alimentazione double entrée.



Finishing

Bianco RAL 9010 White RAL 9010 Blanc RAL 9010	Grigio antracite RAL 7021 Grey anthracite RAL 7021 Gris anthracite RAL 7021
Grigio High Tech RAL 9006 Grey High Tech RAL 9006 Gris High Tech RAL 9006	Corten Corten Corten

* Led colour

N	4000K
3	3000K, lm -5%
2	2700K, lm -5%

Completa il codice sostituendo al quadrato rosso la lettera o il numero corrispondente alla temperatura colore scelta.

Complete the code by replacing the red box with the letter or number corresponding to the selected colour temperature.

Compléter le code en remplaçant le carré rouge par la lettre ou le numéro correspondant à la sélection de température couleur.

Alimentazione diretta

Integral ballast
Alimentation intégrée

✓ 220-240 V

I **ATTENZIONE!** La sicurezza dell'apparecchio è garantita solo con l'uso appropriato delle seguenti istruzioni, pertanto è necessario conservarle.

La manutenzione e l'installazione devono essere eseguite solo dopo aver disinserito l'energia elettrica. Durante le fasi d'installazione evitare in qualsiasi caso l'utilizzo di sostanze lubrificanti quali oli, grassi o loro derivati; tali sostanze a contatto con le parti plastiche potrebbero causarne la rottura.

ATTENZIONE: Fra le diverse soluzioni a led è possibile rilevare una variazione della temperatura colore, in funzione della tecnologia costruttiva del led stesso. Tra diversi lotti di fornitura si ritiene accettabile una tolleranza del 15% sulla temperatura colore del led.

AVVERTENZE: L'apparecchio non deve, in alcuna circostanza, essere coperto con materiale isolante o simili. Il diffusore pulito garantisce il rendimento ottimale dell'apparecchio. Consigliamo una pulizia periodica utilizzando, per i diffusori in materiale termoplastico, detergenti neutri privi di silicone e suoi derivati. **Per qualsiasi dubbio contattare un elettricista qualificato. Questo apparecchio è conforme secondo la norma EN 60598-1.**

LOMBARDO S.r.l. non risponde di danni a cose e persone imputabili a modifiche, manomissioni o impiego non conforme alle caratteristiche tecniche del prodotto.

Apparecchio di illuminazione da incasso

Apparecchio idoneo al montaggio diretto su superfici normalmente infiammabili.

Apparecchio totalmente protetto contro la polvere: IP 6X

Apparecchio protetto contro le ondate: IP X6



UK CAUTION! The safety of the light fitting is only guaranteed if the instructions are followed carefully and they must be kept for future reference. Maintenance and installation procedures must only be carried out when the mains have been switched off. During installation, avoid all use of lubricants such as oil, grease or any derivatives; such substances may cause damage to the plastic parts when in contact with them.

NOTE: Among the different led solutions, it is possible to detect a change in colour temperature, depending on the construction technology of the led. Among the different lots of supply a tolerance of 15% shall be acceptable on the colour temperature of the leds.

NOTE: The light fitting must never, under any circumstances, be covered with insulating or similar materials. A clean diffuser guarantees maximum light from the appliance. Periodic cleaning is recommended. For diffusers made of thermoplastic material, use neutral detergents that do not contain silicone or its derivatives. **If in doubt, contact a qualified electrician. This fitting complies to EN 60598-1.**

LOMBARDO S.r.l. is not liable for damage to property and people due to modification, tampering and use not in conformity with the technical characteristics of the product.

Recessed lighting

Light fitting suitable for direct installation on surfaces that are normally inflammable.

Light fitting totally protected from dust: IP 6X

Light fitting protected against waves: IP X6



D ACHTUNG! Die Sicherheit des Gerätes ist nur bei Anwendung der folgenden Anweisungen gewährleistet, die daher aufbewahrt werden müssen. Arbeiten zur Wartung und Installation dürfen nur nach Unterbrechung der Stromzufuhr ausgeführt werden. Während der Installationsphase ist jeglicher Gebrauch von Schmiermitteln wie Öl, Fett und Folgeprodukte zu vermeiden, diese Stoffe können zu Schäden an den Plastikteilen führen.

HINWEIS: Unter den verschiedenen Led-Lösungen, je nach Konstruktion der Led-Technologie, kann eine Änderung der Farbtemperatur detektiert werden. Zwischen den verschiedenen Lieferungen gilt eine Toleranz von 15% auf die Led-Farbtemperatur.

WARNUNG: Das Gerät darf nie mit Isoliermaterial oder ähnlichem bedeckt werden. Eine gut gereinigte Abdeckung garantiert eine optimale Leistung des Apparats. Wir empfehlen daher, für Abdeckungen aus thermoplastischem Material eine periodische Reinigung mit neutralen Reinigungsmitteln ohne Silikon oder Silikonderivaten. **Im Falle von etwaigen Zweifeln sollte ein qualifizierter Dieses Gerät entspricht EN 60598-1.**

LOMBARDO S.r.l. übernimmt keine Verantwortung für Schäden, an Sachen oder Personen, herbeigeführt durch unsachgemäße oder veränderte Handhabung oder Benutzung des Produktes Einbauleuchten

Gerät geeignet zur direkten Montage auf normal entflammbaren Oberflächen.

Gerät vollständig staubgeschützt: IP 6X

Gerät gegen Überflutung geschützt: IP X6



F ATTENTION! La sécurité de l'appareil n'est garantie qu'en cas d'emploi approprié des instructions suivantes. Nous vous conseillons donc de bien les conserver. L'entretien et l'installation ne doivent être effectués que lorsque le courant électrique est coupé. Pendant les phases d'installation, éviter l'usage de lubrifiants, comme par exemple huile, gras et dérivés, parce que ces substances pourraient détériorer les parties en plastique.

NOTE: Parmi les différentes solutions, il est possible de détecter un changement de température couleur, en fonction de la technologie de construction de la led. Entre les différents lots de livraison on peut accepter une tolérance de 15% sur la température couleur des leds.

CONSEILS: L'appareil ne doit en aucun cas être recouvert par du matériel isolant ou similaire. Un diffuseur bien propre peut garantir un maximum de rendement. Nous vous conseillons donc de nettoyer l'appareil périodiquement à l'aide de détergents neutres sans silicone et dérivés pour les diffuseurs en matière thermoplastique. **En cas de doutes, faites appel à un électricien qualifié. Cet appareil est conforme à la norme EN 60598-1.**

LOMBARDO S.r.l. n'est pas responsable des dommages aux biens et aux personnes en raison de modifications, manipulations ou utilisation non conforme aux caractéristiques techniques du produit.

Luminaires à encastrer

Il est possible de monter l'appareil directement sur des superficies normalement inflammables.

Appareil totalement protégé contre toute infiltration

de poussière : IP 6X

Appareil totalement protégé contre les jets d'eau

de fort pression et paquets de mer: IP X6



E ¡ATENCIÓN! La seguridad del aparato está garantizada solamente con el uso apropiado de las siguientes instrucciones, por lo tanto es necesario conservarlas. El mantenimiento y la instalación deben ser efectuados sólo después de haber desconectado la energía eléctrica. Durante las fases de instalación evitar en todos los casos el uso de sustancias lubricantes como aceites, grasas o sus derivados; dichas substancias en contacto con las partes de plástico podrían causar su rotura.

NOTA: Entre las diversas soluciones de los leds, se puede detectar un cambio de temperatura color, dependiendo de la tecnología de construcción del led. Entre los diferentes lotes de la oferta se aceptará una tolerancia del 15% sobre la temperatura color de los leds.

ADVERTENCIAS: El aparato no debe, en ningún caso, cubrirse con material aislante o similares. El difusor limpio garantiza un óptimo rendimiento del aparato. Aconsejamos una limpieza periódica utilizando, para los difusores de material termoplástico, detergentes neutros que no contengan siliconas y sus derivados. **Ante cualquier duda contactar un electricista calificado. Este dispositivo cumple con la norma EN 60598-1.**

LOMBARDO S.r.l. no se hace responsable por los daños a la propiedad y las personas debido a modificación, manipulación y uso no conforme a las características técnicas del producto.

Luminarias empotradas

Aparato idóneo para el montaje directo sobre superficies normalmente inflamables.

Aparato con protección total frente al polvo: IP 6X

Aparato con protección frente a las olas: IP X6



P ¡ATENÇÃO! A segurança do aparelho só é garantida se forem cumpridas as seguintes instruções, portanto será necessário conservá-las. A manutenção e a instalação devem ser feitas só após ter desligado a energia eléctrica. Durante as fases de instalação evitar, em todo o caso, a utilização de substâncias lubrificantes tais como óleos, gorduras ou derivados; estas substâncias em contacto com as partes plásticas poderão causar a sua ruptura.

NOTA: Entre as várias soluções led, pode detectar uma mudança de temperatura cor, dependendo da tecnologia de construção do led. Entre diferentes lotes de fornecimento deve ser uma tolerância de 15% sobre a temperatura cor dos leds.

ADVERTÊNCIAS: O aparelho não deve, de maneira nenhuma, ser coberto com material isolante ou similares. O difusor limpo garante um ótimo rendimento do aparelho. Aconselhamos uma limpeza periódica utilizando, para os difusores de material termoplástico, detergentes neutros sem silicone e derivados. **Para qualquer problema contactar um electricista qualificado. Este dispositivo está em conformidade com a norma EN 60598-1.**

LOMBARDO S.r.l. não se responsabiliza por danos materiais e pessoas, devido a modificações, manipulação ou utilização não em conformidade com as especificações do produto.

Luminárias de embutir

Luminária idónea para a montagem directa em superfícies normalmente inflamáveis.

Aparelho totalmente protegido contra o pó: IP 6X

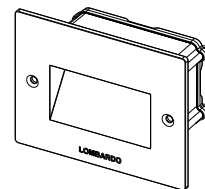
Aparelho protegido contra as ondas IP X6



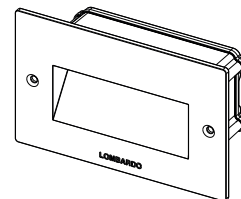
LOMBARDO



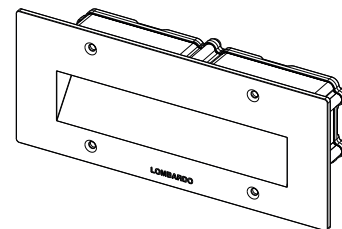
FIX



Fix 503



Fix 504



Fix 506

Rev. A 12/2017

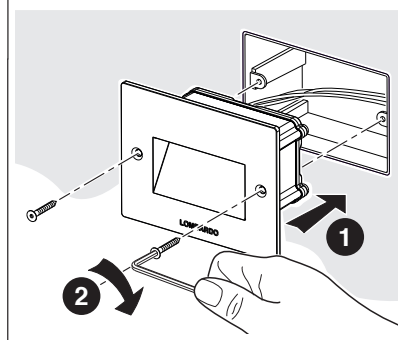
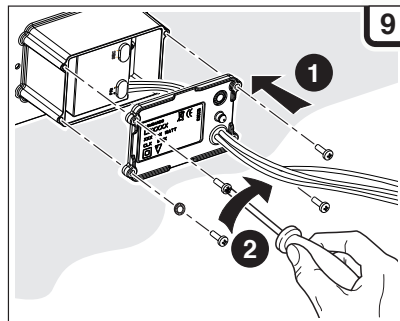
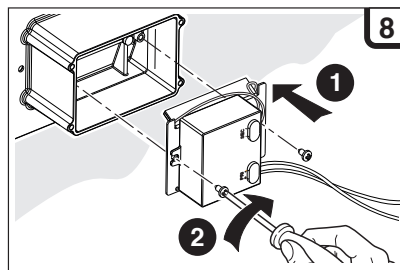
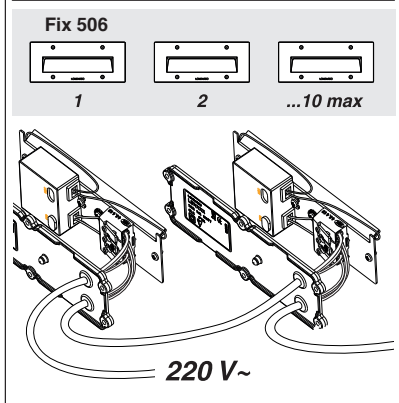
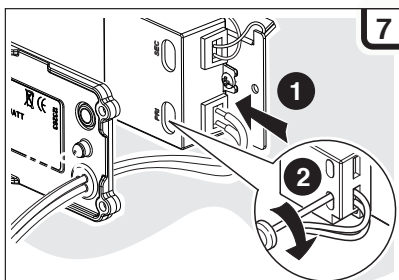
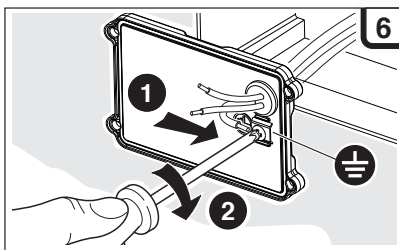
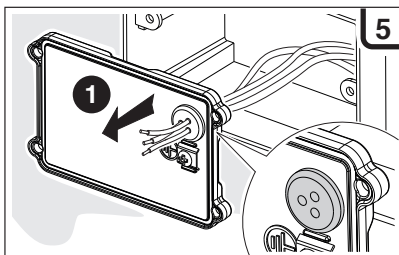
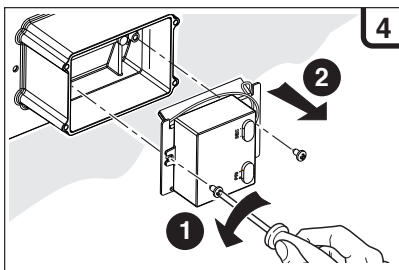
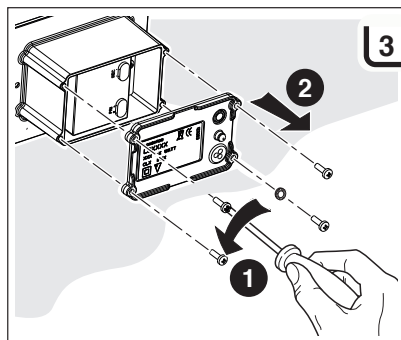
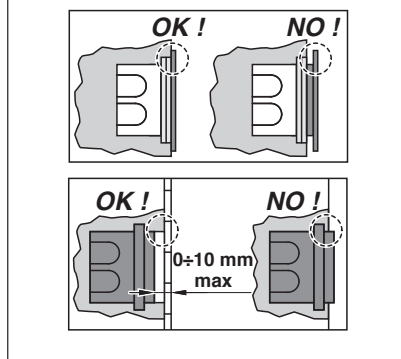
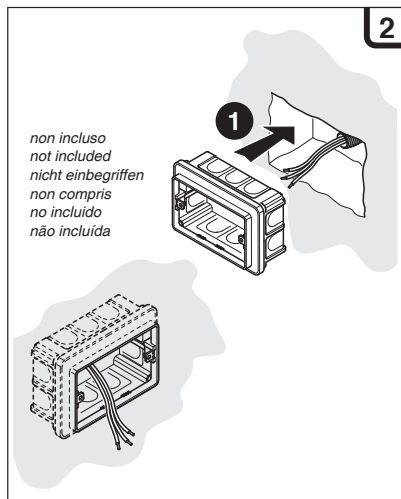
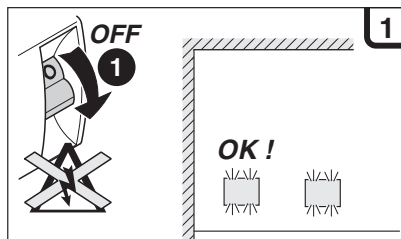
Cod. FIFX000

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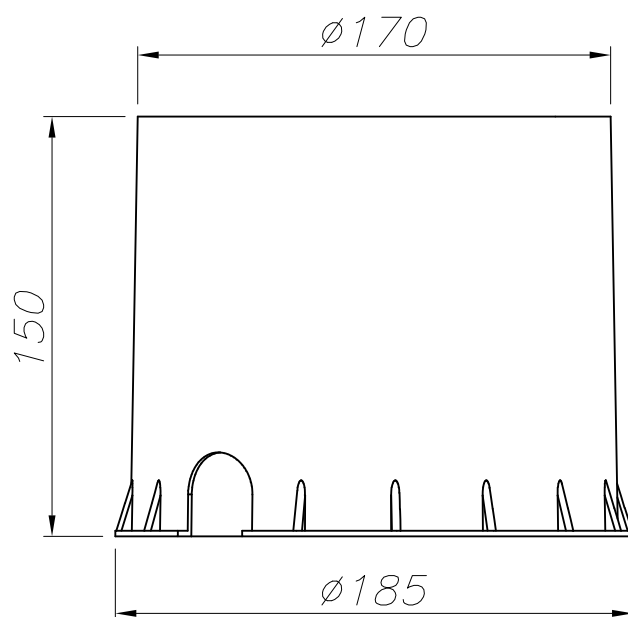
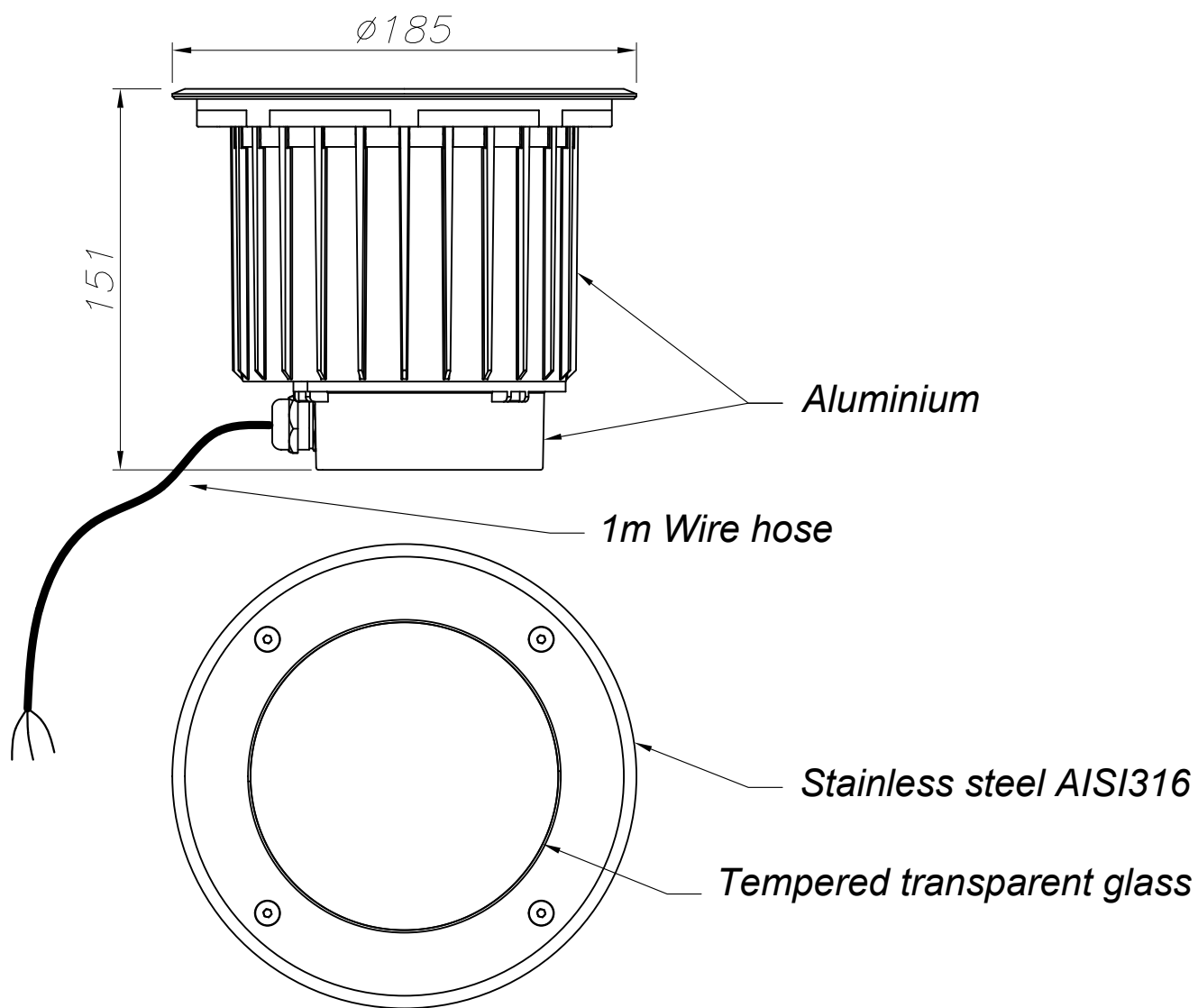
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