

Tough-Shell High Bay 240W 4000K 36000lm Dimmable 120 deg Beam Angle

Partcode: ILHBC152 / Page: 1



The Tough-Shell Circular High Bay is a rugged, attractive and highly efficient solution for lighting large indoor facilities such as warehouses, production facilities and indoor sports halls. Running at an efficacy of 150lm/W, the Tough-Shell provides 36,000lm and thanks to its skilfully engineered aluminium body it effectively dissipates heat while maintaining IK08 impact resistance.

[Watch Video](#)

Product Details

Partcode: ILHBC152

Check Code: 202968

Range Name: Tough-Shell

Product Type: Circular High Bay

Warranty: 5 Years

CE / RoHS: Yes

Suitable for claiming Enhanced Capital Allowance: Yes

Physical Data

Product Finish: Matt Black

Optic: Polycarbonate diffuser

Material: Aluminium, Polycarbonate

Construction: Aluminium heat-sink, PC injection moulded driver case

Physical Data

Length: 139mm
Diameter: 360mm
Weight (Unpackaged Single Unit): 5900g
Lamp or Luminaire Shape: Round
Luminaire Fixing: Suspended

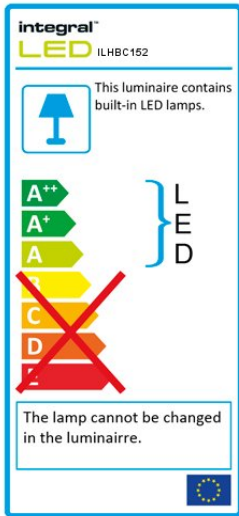
Electrical Data

Power Consumption: 240.0 Watts
Driver included: Yes
Electric Current: AC
Frequency Range: 50/60 Hz
Power Factor: ≥ 0.95
Dimming: Dimmable
LVD Certified: Yes
EN: EN-60598, EN61000, EN61547, EN55015, IEC62321

Light Data

Lumens: 36,000lm
Lumens per Watt: 150.0lm/W
Beam Angle: 120°
Correlated Colour Temperature (CCT): 4,000k
Colour Temperature: Cool White
Colour Rendering Index (CRI): ≥ 70
LED Type: Surface mounted device (SMD)
Instant on - Less than 1 second: Yes
Lifetime: 50,000 hrs
Switching Cycles: $>25,000$ X

Environmental



Lowest Operating Temperature: -30 degrees

Maximum Operating Temperature: 45 degrees

IK (Impact Protection) Rating: 8

IP (Ingress Protection) Rating: IP65

Hg 0% (Mercury Free): Yes

Packaging

EAN Barcode (unit of 1): 5055788239383

Packaged Weight (Unit of 1): 7,000g

Length (unit of 1): 445mm

Width (unit of 1): 225mm

Depth (unit of 1): 445mm

Outer packaging info available on website

Declaration of Conformity - ECA Compliance

We declare that the products listed below comply with the requirements of the ECA Energy Technology List 2015 – White Light Emitting Diode Lighting Units

Products suitable for claiming Enhanced Capital Allowance

Product name	Partcode
Panel Back-lit 1200x600 70W 6000K 7500lm	ILP1260B70N06KCTWH
Panel Back-lit 1200x600 70W 6000K 7500lm with emergency function	ILP1260B70N06KCTWHEM
Panel Back-lit 600x600 35W 6000K 3700lm	ILP6060B35N06KCPWH
Panel Back-lit 600x600 35W 6000K 3700lm with emergency function	ILP6060B35N06KCPWHEM
Panel Back-lit 600x600 30W 3000K 3200lm	ILP6060B30N03KROWH
Panel Back-lit 600x600 30W 4000K 3500lm	ILP6060B30N04KROWH
Panel Back-lit 600x600 30W 5000K 3500lm	ILP6060B30N05KROWH
Panel Back-lit 600x600 30W 6500K 3500lm	ILP6060B30N65KROWH
Panel Back-lit 600x600 40W 4000K 4600lm	ILP6060B40N04KRQWH
Panel Back-lit 600x600 40W 5000K 4600lm	ILP6060B40N05KRQWH
Panel Back-lit 600x600 50W 4000K 5500lm	ILP6060B50N04KRRWH
Panel Back-lit 600x600 30W 3000K 3200lm with integrated emergency function	ILP6060B30N03KROWHE3
Panel Back-lit 600x600 30W 4000K 3500lm with integrated emergency function	ILP6060B30N04KROWHE3
Panel Back-lit 600x600 30W 5000K 3500lm with integrated emergency function	ILP6060B30N05KROWHE3
Panel Back-lit 600x600 30W 6500K 3500lm with integrated emergency function	ILP6060B30N65KROWHE3
Panel Back-lit 600x600 40W 4000K 4600lm with integrated emergency function	ILP6060B40N04KRQWHE3
Panel Back-lit 600x600 40W 5000K 4600lm with integrated emergency function	ILP6060B40N05KRQWHE3
Panel Back-lit 600x600 50W 4000K 5500lm with integrated emergency function	ILP6060B50N04KRRWHE3
Panel Back-lit 1200x600 60W 4000K 6900lm	ILP1260B60N04KRSWH
Panel Back-lit 1200x600 60W 5000K 6900lm	ILP1260B60N05KRSWH
Panel Back-lit 1200x600 70W 4000K 8200lm	ILP1260B70N04KRTWH
Panel Back-lit 1200x600 70W 5000K 8200lm	ILP1260B70N05KRTWH
Panel Back-lit 1200x300 30W 3000K 3200lm	ILP1230B30N03KRNWH
Panel Back-lit 1200x300 30W 4000K 3500lm	ILP1230B30N04KROWH
Panel Back-lit 1200x300 30W 5000K 3500lm	ILP1230B30N05KROWH
Panel Back-lit 1200x600 60W 4000K 6900lm with emergency function	ILP1260B60N04KRSWHEM
Panel Back-lit 1200x600 60W 5000K 6900lm with emergency function	ILP1260B60N05KRSWHEM
Panel Back-lit 1200x600 70W 4000K 8200lm with emergency function	ILP1260B70N04KRTWHEM
Panel Back-lit 1200x600 70W 5000K 8200lm with emergency function	ILP1260B70N05KRTWHEM
Panel Back-lit 600x600 36W 4000K 3600lm (Twin Pack)	ILP6060B015-02
Panel Back-lit 600x600 36W 6500K 3700lm (Twin Pack)	ILP6060B016-02
Panel Back-lit 600x600 25W 3000K 3200lm	ILP6060B001
Panel Back-lit 600x600 25W 5000K 3500lm	ILP6060B005
Panel Back-lit 600x600 25W 6500K 3500lm	ILP6060B007
Panel Back-lit 600x600 25W 3000K 3200lm with integrated emergency function	ILP6060B002

Panel Back-lit 600x600 25W 4000K 3500lm with integrated emergency function	ILP6060B004
Panel Back-lit 600x600 25W 6500K 3500lm with integrated emergency function	ILP6060B008
Panel Back-lit 600x600 35W 4000K 4600lm with integrated emergency function	ILP6060B010
Panel Back-lit 600x600 35W 5000K 4600lm with integrated emergency function	ILP6060B012
Panel Back-lit 600x600 45W 4000K 5500lm with integrated emergency function	ILP6060B014
Panel Back-lit 1200x600 50W 4000K 6900lm	ILP1260B001
Panel Back-lit 1200x600 50W 5000K 6900lm	ILP1260B003
Panel Back-lit 1200x600 50W 4000K 6900lm with integrated emergency function	ILP1260B002
Panel Back-lit 1200x600 50W 5000K 6900lm with integrated emergency function	ILP1260B004
Panel Back-lit 1200x600 70W 4000k 8200lm with integrated emergency function	ILP1260B70N04KRTWHE3
Panel Back-lit 1200x600 70W 5000k 8200lm with integrated emergency function	ILP1260B70N05KRTWHE3
Circular High Bay 100W 5000K 12000lm 50 deg 1-10V Dimmable	ILHBC001
Circular High Bay 100W 5000K 12000lm 110 deg 1-10V Dimmable	ILHBC002
Circular High Bay 150W 5000K 18000lm 50 deg 1-10V Dimmable	ILHBC003
Circular High Bay 150W 5000K 18000lm 110 deg 1-10V Dimmable	ILHBC004
Circular High Bay 240W 5000K 26200lm 50 deg 1-10V Dimmable	ILHBC005
Circular High Bay 240W 5000K 26200lm 110 deg 1-10V Dimmable	ILHBC006
Linear Low Bay 70W 5000K 9100lm IP54 110 deg beam angle	ILHBL001
Linear Low Bay 150W 5000K 19500lm IP54 110 deg beam angle	ILHBL002
Panel Edge-lit 600x600 36W 4000K 3600lm IP65	ILP6060E001
Panel Back-lit 600x600 25W 4000K 3500lm	ILP6060B003
Panel Back-lit 600x600 35W 4000K 4600lm	ILP6060B009
Panel Back-lit 600x600 45W 4000K 5500lm	ILP6060B013
Panel Back-lit 1200x600 60W 4000k 8200lm	ILP1260B005
Panel Back-lit 1200x600 60W 4000k 8200lm with integrated emergency function	ILP1260B006
Panel Back-lit 1200x300 25W 4000K 3500lm	ILP1230B001
Panel Back-lit 1200x300 25W 5000K 3500lm	ILP1230B002
Panel Low-Profile Back-lit 600x600 35W 4000K 4600lm	ILP6060B018
Panel Low-Profile Back-lit 600x600 45W 4000K 5500lm	ILP6060B019
Panel Low-Profile Back-lit 600x600 25W 4000K 3500lm with DALI dimming	ILP6060B020
Panel Low-Profile Back-lit 600x600 35W 4000K 4600lm with DALI dimming	ILP6060B021
Panel Low-Profile Back-lit 600x600 45W 4000K 5500lm with DALI dimming	ILP6060B022
Circular High Bay 200W 5000K 24000lm Dimmable 50 deg beam angle	ILHBC011
Circular High Bay 200W 5000K 24000lm Dimmable 110 deg beam angle	ILHBC012
Panel Edge-lit 600x600 38W 4000k 3800lm No Driver Included	ILP6060E008
Panel Back-lit 600x600 35W 5000K 4600lm IP44	ILP6060B011
Panel Edge-lit 600x600 30W 4000K 3600lm	ILP6060E003
Panel Edge-lit 600x600 36W 4000K 4320lm	ILP6060E005
Panel Edge-lit 1200x600 50W 4000K 6000lm	ILP1260E001
Panel Back-lit 1200x600 46W 4000K 6900lm	ILP1260B001
Panel Back-lit 1200x600 46W 5000K 6900lm	ILP1260B003
Panel Low-Profile Back-lit 600x600 25W 4000K 3500lm TP(b) rated Polycarbonate Diffuser	ILP6060B017
Panel Low-Profile Back-lit 600x600 35W 4000K 4600lm TP(b) rated Polycarbonate Diffuser	ILP6060B018

Panel Low-Profile Back-lit 600x600 43W 4000K 5500lm	ILP6060B019
Panel Low-Profile Back-lit 600x600 42W 4000K 5500lm with integrated emergency function	ILP6060B028
Panel Low-Profile Back-lit 600x600 23W 4000K 3500lm with integrated emergency function	ILP6060B030
Back-lit Panel 600x600 25W 5000K 3500lm with integrated emergency function	ILP6060B006
Panel Low-Profile Back-lit 600x600 25W 4000K 3500lm	ILP6060B017
Panel Edge-lit 600x600 32W 4000K 3600lm IP65	ILP6060E001
Panel Back-lit 1200x600 46W 4000k 6900lm with integrated emergency function	ILP1260B007
Panel Low-Profile Back-lit 600x600 33W 4000K 4600lm	ILP6060B018
Panel Low-Profile Back-lit 600x600 23W 4000K 3500lm	ILP6060B029
Panel Edge-lit 1200x300 30W 4000K 3600lm	ILP1230E001
Panel Back-lit 1200x600 46W 5000k 6900lm with integrated emergency function	ILP1260B008
Panel Back-lit 1200x300 23W 4000k 3500lm with integrated emergency function	ILP1230B003
Panel Back-lit 1200x300 30W 6500K 3500lm	ILP1230B30N65KROWH
Panel Back-lit 1200x600 56W 4000k 8200lm	ILP1260B005
Panel Back-lit 1200x600 56W 4000k 8200lm with integrated emergency function	ILP1260B006
Lightspan T8 Style LED Batten 43W 4000K 5150lm	ILBTC051
Lightspan T8 Style LED Batten 60W 4000K 7200lm	ILBTC053
Lightspan T8 Style LED Batten 65W 4000K 78000lm	ILBTC055
Spacelux Circular High Bay 160W 5000K 20,960lm 110 deg beam angle Non-Dimmable	ILHBG007
Spacelux Circular High Bay 100W 5000K, 12,000lm 110 deg Beam Angle Dimmable	ILHBG022
LED IP65 Batten 18.5W 2ft Linkable	ILBTOA001
LED IP65 Batten 38W 4ft Linkable	ILBTOA002
LED IP65 Batten 46.5W 5ft Linkable	ILBTOA003
LED IP65 Batten 55W 6ft Linkable	ILBTOA004
LED IP65 Batten 18.5W 2ft Non-Linkable	ILBTOA005
LED IP65 Batten 38W 4ft Non-Linkable	ILBTOA006
LED IP65 Batten 46.5W 5ft Non-Linkable	ILBTOA007
LED IP65 Batten 55W 6ft Non-Linkable	ILBTOA008
IP65 Batten 45W 4000K 5400lm 4ft White Non-Linkable	ILBTB017
IP65 Batten 45W 4000K 5400lm 4ft White Non-Linkable with Emergency Function	ILBTB018
IP65 Batten 45W 4000K 5400lm 4ft White Non-Linkable with Microwave Sensor	ILBTB019
IP65 Batten 60W 4000K 7200lm 5ft White Non-Linkable	ILBTB020
IP65 Batten 60W 4000K 7200lm 5ft White Non-Linkable with Emergency Function	ILBTB021
IP65 Batten 60W 4000K 7200lm 5ft White Non-Linkable with Microwave Sensor	ILBTB022
IP65 Batten 70W 4000K 8400lm 6ft White Non-Linkable	ILBTB023
IP65 Batten 70W 4000K 8400lm 6ft White Non-Linkable with Emergency Function	ILBTB024
IP65 Batten 70W 4000K 8400lm 6ft White Non-Linkable with Microwave Sensor	ILBTB025
Panel Edge-lit 600x600 38W 6500k 3850lm No Driver Included	ILP6060E009
Panel Edge-lit 600x600 30W 6500K 3640lm	ILP6060E004
Panel Edge-lit 600x600 36W 6500K 4360lm	ILP6060E006

Panel Edge-lit 1200x600 50W 6500K 6050lm	ILP1260E002
IP65 Batten 45W 6500K 5400lm 4ft White Non-Linkable	ILBTB026
IP65 Batten 45W 6500K 5400lm 4ft White Non-Linkable with Emergency Function	ILBTB027
IP65 Batten 45W 6500K 5400lm 4ft White Non-Linkable with Microwave Sensor	ILBTB028
IP65 Batten 60W 6500K 7200lm 5ft White Non-Linkable	ILBTB029
IP65 Batten 60W 6500K 7200lm 5ft White Non-Linkable with Emergency Function	ILBTB030
IP65 Batten 60W 6500K 7200lm 5ft White Non-Linkable with Microwave Sensor	ILBTB031
IP65 Batten 70W 6500K 8400lm 6ft White Non-Linkable	ILBTB032
IP65 Batten 70W 6500K 8400lm 6ft White Non-Linkable with Emergency Function	ILBTB033
IP65 Batten 70W 6500K 8400lm 6ft White Non-Linkable with Microwave Sensor	ILBTB034
IP65 LED Linear High Bay 80W 5000K 10400lm 110 Deg Beam Angle	ILHBL020
IP65 LED Linear High Bay 120W 5000K 16200lm 110 Deg Beam Angle	ILHBL024
IP65 LED Linear High Bay 180W 5000K 23400lm 110 Deg Beam Angle	ILHBL028
IP65 LED Linear High Bay 60W 4000K 10400lm 110 Deg Beam Angle	ILHBL040
IP65 LED Linear High Bay 100W 4000K 13000lm 110 Deg Beam Angle	ILHBL042
IP65 LED Linear High Bay 120W 4000K 16200lm 110 Deg Beam Angle	ILHBL044
IP65 LED Linear High Bay 160W 4000K 20800lm 110 Deg Beam Angle	ILHBL046
IP65 LED Linear High Bay 180W 4000K 23400lm 110 Deg Beam Angle	ILHBL048
Spacelux Circular High Bay 80W 5000K 9600lm 110 deg Beam Angle Dimmable	ILHBG020
Spacelux Circular High Bay 120W 5000K 14400lm 110 deg Beam Angle Dimmable	ILHBG024
Spacelux Circular High Bay 120W 5000K 16800lm 110 deg Beam Angle Dimmable	ILHBG026
Spacelux Circular High Bay 80W 4000K 9600lm 110 deg Beam Angle Dimmable	ILHBG040
Spacelux Circular High Bay 100W 4000K 12000lm 110 deg Beam Angle Dimmable	ILHBG042
Spacelux Circular High Bay 120W 4000K 14400lm 110 deg Beam Angle Dimmable	ILHBG044
Spacelux Circular High Bay 120W 4000K 16800lm 110 deg Beam Angle Dimmable	ILHBG046
Spacelux Circular High Bay 160W 5000K 21000lm 110 deg Beam Angle Dimmable	ILHBG028
Spacelux Circular High Bay 160W 5000K 24000lm 110 deg Beam Angle Dimmable	ILHBG030
Spacelux Circular High Bay 160W 4000K 21000lm 110 deg Beam Angle Dimmable	ILHBG048
Spacelux Circular High Bay 160W 4000K 24000lm 110 deg Beam Angle Dimmable	ILHBG050
Perform Circular High Bay 60W 4000K 7800lm Non-Dimmable	ILHBC200
Perform Circular High Bay 80W 4000K 10400lm Non-Dimmable	ILHBC202
Perform Circular High Bay 100W 4000K 13000lm Non-Dimmable	ILHBC204
Perform Circular High Bay 120W 4000K 15600lm Non-Dimmable	ILHBC206
Perform Circular High Bay 150W 4000K 19500lm Non-Dimmable	ILHBC208
Perform Circular High Bay 200W 4000K 26000lm Non-Dimmable	ILHBC210
Perform Circular High Bay 60W 5000K 7800lm Non-Dimmable	ILHBC220
Perform Circular High Bay 80W 5000K 10400lm Non-Dimmable	ILHBC222
Perform Circular High Bay 100W 5000K 13000lm Non-Dimmable	ILHBC224

Perform Circular High Bay 120W 5000K 15600lm Non-Dimmable	ILHBC226
Perform Circular High Bay 150W 5000K 19500lm Non-Dimmable	ILHBC228
Perform Circular High Bay 200W 5000K 26000lm Non-Dimmable	ILHBC230
Perform Circular High Bay 60W 4000K 7800lm Dimmable	ILHBC240
Perform Circular High Bay 80W 4000K 10400lm Dimmable	ILHBC242
Perform Circular High Bay 100W 4000K 13000lm Dimmable	ILHBC244
Perform Circular High Bay 120W 4000K 15600lm Dimmable	ILHBC246
Perform Circular High Bay 150W 4000K 19500lm Dimmable	ILHBC248
Perform Circular High Bay 200W 4000K 26000lm Dimmable	ILHBC250
Perform Circular High Bay 60W 5000K 7800lm Dimmable	ILHBC260
Perform Circular High Bay 80W 5000K 10400lm Dimmable	ILHBC262
Perform Circular High Bay 100W 5000K 13000lm Dimmable	ILHBC264
Perform Circular High Bay 120W 5000K 15600lm Dimmable	ILHBC266
Perform Circular High Bay 150W 5000K 19500lm Dimmable	ILHBC268
Perform Circular High Bay 200W 5000K 26000lm Dimmable	ILHBC270
Linear Low Bay 100W 5000K 13000lm IP65 110 deg beam angle	ILHBL009
Linear Low Bay 160W 5000K 20800lm IP65 110 deg beam angle	ILHBL010
Tough-Shell High Bay 100W 4000K 13000lm Non-Dimmable 120 deg Beam Angle	ILHBC100
Tough-Shell High Bay 100W 4000K 15000lm Non-Dimmable 120 deg Beam Angle	ILHBC102
Tough-Shell High Bay 150W 4000K 19500lm Non-Dimmable 120 deg Beam Angle	ILHBC104
Tough-Shell High Bay 150W 4000K 22500lm Non-Dimmable 120 deg Beam Angle	ILHBC106
Tough-Shell High Bay 200W 4000K 26000lm Non-Dimmable 120 deg Beam Angle	ILHBC108
Tough-Shell High Bay 240W 4000K 31200lm Non-Dimmable 120 deg Beam Angle	ILHBC110
Tough-Shell High Bay 240W 4000K 36000lm Non-Dimmable 120 deg Beam Angle	ILHBC112
Tough-Shell High Bay 100W 4000K 13000lm Non-Dimmable 60 deg Beam Angle	ILHBC120
Tough-Shell High Bay 100W 4000K 15000lm Non-Dimmable 60 deg Beam Angle	ILHBC122
Tough-Shell High Bay 150W 4000K 19500lm Non-Dimmable 60 deg Beam Angle	ILHBC124
Tough-Shell High Bay 150W 4000K 22500lm Non-Dimmable 60 deg Beam Angle	ILHBC126
Tough-Shell High Bay 200W 4000K 26000lm Non-Dimmable 60 deg Beam Angle	ILHBC128
Tough-Shell High Bay 240W 4000K 31200lm Non-Dimmable 60 deg Beam Angle	ILHBC130
Tough-Shell High Bay 240W 4000K 36000lm Non-Dimmable 60 deg Beam Angle	ILHBC132
Tough-Shell High Bay 100W 4000K 13000lm Dimmable 120 deg Beam Angle	ILHBC140
Tough-Shell High Bay 100W 4000K 15000lm Dimmable 120 deg Beam Angle	ILHBC142
Tough-Shell High Bay 150W 4000K 19500lm Dimmable 120 deg Beam Angle	ILHBC144
Tough-Shell High Bay 150W 4000K 22500lm Dimmable 120 deg Beam Angle	ILHBC146
Tough-Shell High Bay 200W 4000K 26000lm Dimmable 120 deg Beam Angle	ILHBC148
Tough-Shell High Bay 240W 4000K 31200lm Dimmable 120 deg Beam Angle	ILHBC150
Tough-Shell High Bay 240W 4000K 36000lm Dimmable 120 deg Beam Angle	ILHBC152
Tough-Shell High Bay 100W 4000K 13000lm Dimmable 60 deg Beam Angle	ILHBC160
Tough-Shell High Bay 100W 4000K 15000lm Dimmable 60 deg Beam Angle	ILHBC162
Tough-Shell High Bay 150W 4000K 19500lm Dimmable 60 deg Beam Angle	ILHBC164

Tough-Shell High Bay 150W 4000K 22500lm Dimmable 60 deg Beam Angle	ILHBC166
Tough-Shell High Bay 200W 4000K 26000lm Dimmable 60 deg Beam Angle	ILHBC168
Tough-Shell High Bay 240W 4000K 31200lm Dimmable 60 deg Beam Angle	ILHBC170
Tough-Shell High Bay 240W 4000K 36000lm Dimmable 60 deg Beam Angle	ILHBC172

Summary Performance criteria

Minimum luminaire efficacies for white LED lighting units

Category	Minimum luminaire efficacy (in luminaire lumens per circuit watt)
Amenity, accent and display lighting units	≥ 75
General interior lighting, using downlighting units (DLOR/LOR \geq 0.9)	≥ 82
General interior lighting using uplighting units (DLOR/LOR $<$ 0.1)	≥ 100
General interior lighting using combined up and down lighting units (DLOR/LOR \geq 0.1 and $<$ 0.9)	$\geq 100 - (18 \times \text{DLOR/LOR})$
Exterior area lighting units	≥ 82
Exterior floodlighting units	≥ 82

" \geq " means "greater than or equal to".

All products must:

- Have a luminaire efficacy (i.e. lighting efficacy) that is greater than, or equal to, the thresholds set out in Table 1 above, after 100 hours of continuous operation.
- Provide a light output (in lumens) after 6000 hours of continuous operation that is not less than 90% of their initial light output (in lumens).
- Have a colour rendering index that meets the requirements of Section 2.2 of Commission Regulation (EU) no 1194/2012 (implementing Directive 2009/125/EC of the European Parliament and of the Council with regard to eco-design requirements for directional lamps, light emitting diode lamps and related equipment) $R_a \geq 80$
- Have a power factor that is greater than, or equal to, 0.9 at all levels of product light output.

Authorised for and behalf of Integral LED

A. Gooding

Andrew Gooding

Technical and Compliance Manager

Product data last updated on: Wednesday, September 5, 2018 - 11:44