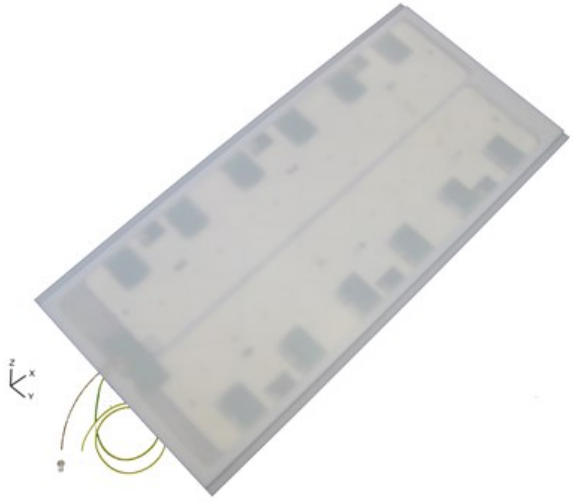
A6011
SlimLine CP UNDERBELT ANTENNA



The SlimLine A6011

Ultra-low profile circular polarised antenna

Especially suited for airport conveyor belts

Industry leading accuracy rates

Just 12 mm / 0.5 in. thick

Typical applications:
Airport baggage handling systems
& any conveyor belt-based application

Part of the SlimLine range of airport antennas, the A6011 is a flat panel antenna array especially suited to conveyor belt-based UHF RFID applications. Encased in an ultra-low-profile UHMWPE (Ultra-High Molecular Weight Polyethylene) radome, the A6011 is designed for continuous 24x7 operation in environments where downtime is not an option.

At just 12 mm / 0.5 in. thick, and designed for quick and easy installation, the A6011 is the ideal choice for airport baggage handling systems, or any conveyor belt-based application.

The A6011 underbelt antenna is now available in three different sizes. For more details, please refer to the physical specifications.

Ordering Information

Ordering Information (please quote product code, band / cable type & part no.)

Antenna Product Code	Band	Part No.
A6011 (1200 mm)	ETSI 864-868 MHz	70730
	FCC 902-928 MHz	70731
A6011 (1000 mm)	ETSI 864-868 MHz	71892
	FCC 902-928 MHz	71907
A6011 (800 mm)	ETSI 864-868 MHz	71891
	FCC 902-928 MHz	71906
Cable Accessories Product Code	**Cable Type**	**Part No.**
Cable 2 m, SMA to RPTNC	LMR 195 / 240 / 400	71436 / 71782 / 72042
Cable 4 m, SMA to RPTNC	LMR 240 / 400	71784 / 72043
Cable 6 m, SMA to RPTNC	LMR 240 / 400	71904 / 72044
Cable 8 m, SMA to RPTNC	LMR 240 / 400	71788 / 72045

*Built in New Zealand. ROHS & CE compliant.

View the Times-7 Cable Accessory datasheet here

ABOUT TIMES-7

We are a high-tech company specializing in the design and manufacture of RAIN (UHF) RFID antennas. Founded in 2006, Times-7 has developed the largest portfolio of fixed RAIN RFID reader antennas. Based in Lower Hutt, New Zealand we export all over the world through an authorized network.

Times-7 antennas are famous for their quality and performance.

In addition to our world-class products and in-depth expertise, our customers appreciate Times-7's customer service and technical support.
We are responsive in supporting a large global customer base and ensuring the success of our customer's implementations.

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Specifications

Physical / Environmental Specifications

	A6011 (1200mm)	A6011 (1000mm)	A6011 (800mm)
Dimensions (L x W x D): (X x Y x Z)	1200 mm x 600 mm x 12 mm 48 in. x 24 in. x 0.5 in.	1000 mm x 800 mm x 12 mm 39 in. x 31 in. x 0.5 in.	800 mm x 800 mm x 12 mm 31 in. x 31 in. x 0.5 in.
Weight:	7 kg / 15.4 lbs.	8.5 kg / 18.7 lbs	8.0 kg / 18.0 lbs
Radome Material:	3 mm UHMWPE (Ultra-High Molecular Weight Polyethylene)		
Environmental Rating:	IP54		
Operating / Storage Temperature:	0° to +50°C / -30° to +60°C +32F° to +122°F / -22° to +140°F		
Mounting:	Affixed directly onto conveyor frame (under conveyor belt)		
Connector type / position:	SMA female side fly lead (300 mm / 11.8 in.)		

Electrical Specifications

Electrical Specifications

	A6011 (1200mm)	A6011 (1000mm)	A6011 (800mm)
Frequency Range:	865 – 868 MHz / 902-928 MHz		
Polarization:	RHCP (Right-hand Circular Polarised)		
Far-field Gain:	11dBic	10 dBiC	10 dBiC
Far-field 3dB beamwidth:	60Deg / 22Deg	70 Deg / 25 Deg	70 Deg / 25 Deg
Axial Ratio	2dB typical		
VSWR	2 typical	1.8 typical	1.8 typical
Front to back ratio:	> -22dB	> -20dB	> -20dB
Read zone above belt:	≤ 900 mm		
Read zone across belt:	≤ 1200 mm	≤ 1000 mm	≤ 800 mm
Nominal Impedance:	50 Ω		
Anti-static protection:	Yes (Earthing cable, static dissipative radome)		
Maximum Input Power:	3 W		
Antenna detection	10 K Ω resistance		

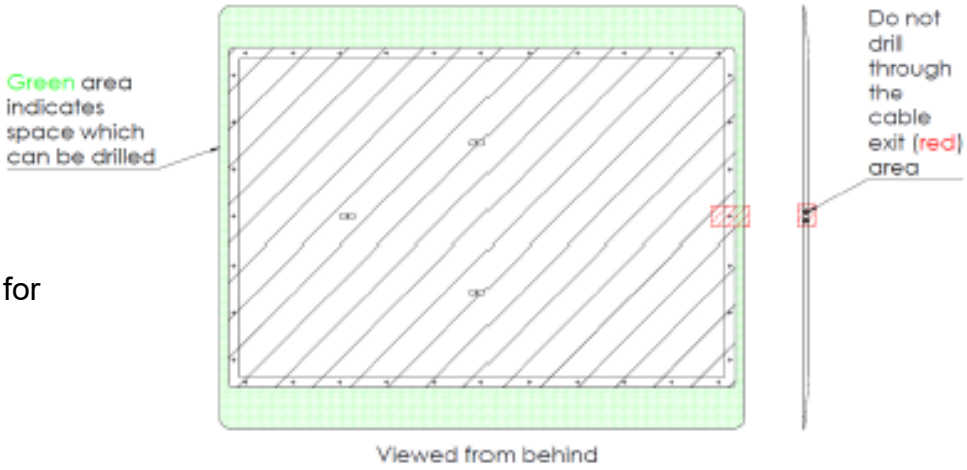
Installation Instructions

- Ensure that only finger tightness is used for the SMA connector. Use of tools to tighten the connector will apply excessive force and will damage the connector.
- Avoid any load or bending force from the cable on the connector.

Mounting Information

(For more detailed mounting information, please contact sales@times-7.com)

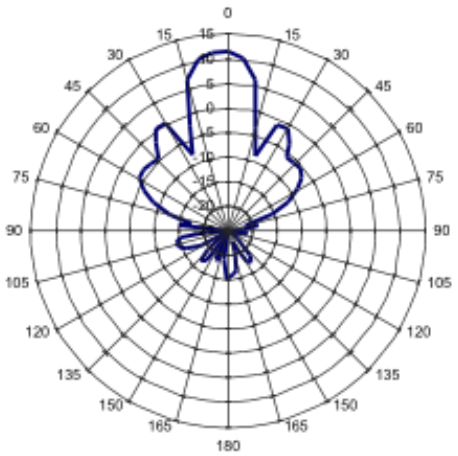
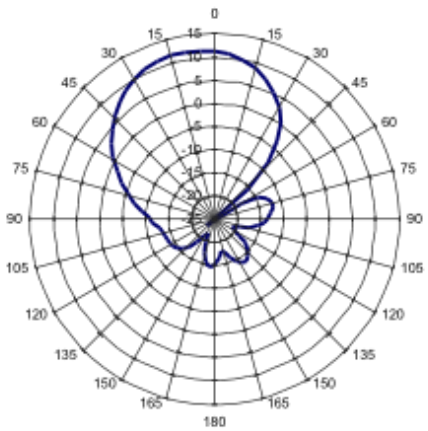
The drawing indicates the drill area for the A6011 800 mm and 1000 mm.



Mounting Information for the A6011 1200mm

There are two attachment points provided on the back side of the antenna, but only one can be used at any one time to allow for thermal expansion of the under-belt antenna housing.

Radiation Patterns

A6011 Y-Z Plane	A6011 X-Z Plane
	

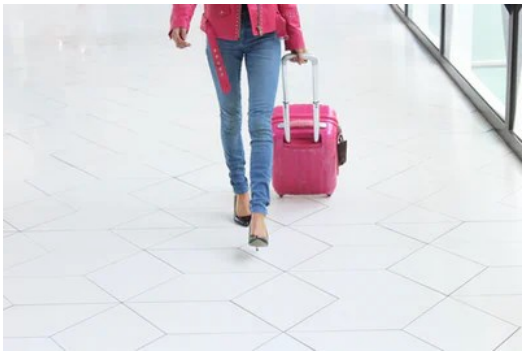
Applications

Airport Portal:

The A6011 Underbelt Antenna combined with the A6020 Conveyor Portal Antenna is perfect for airport baggage handling and provides industry leading accuracy rates. It can easily be installed into existing airport infrastructure.

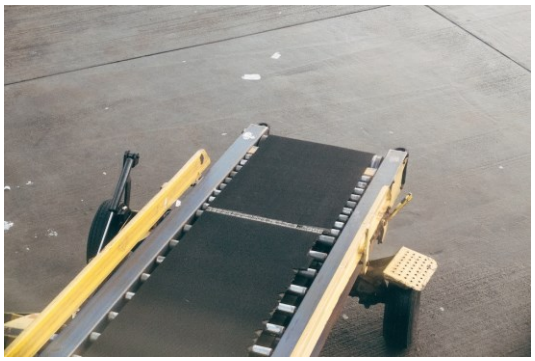
Bag Tracking

The A6011 Underbelt Antenna airport portal provides data that allows airlines to efficiently track a bag through all airport processes.



Conveyor belt-based application

The A6011 is a flat panel antenna array especially suited for belt-based RFID applications. The A6011 is designed for continuous 24x7 operation in fast based environments that are constantly buys.



OUR GLOBAL NETWORK

In addition to our world-class products and in-depth expertise, Times-7 is known for their quality of customer service and technical support. We place emphasis on our responsiveness in supporting a large global customer base and ensuring the success of our customer's implementations.

Authorized Reseller: RFID4UStore
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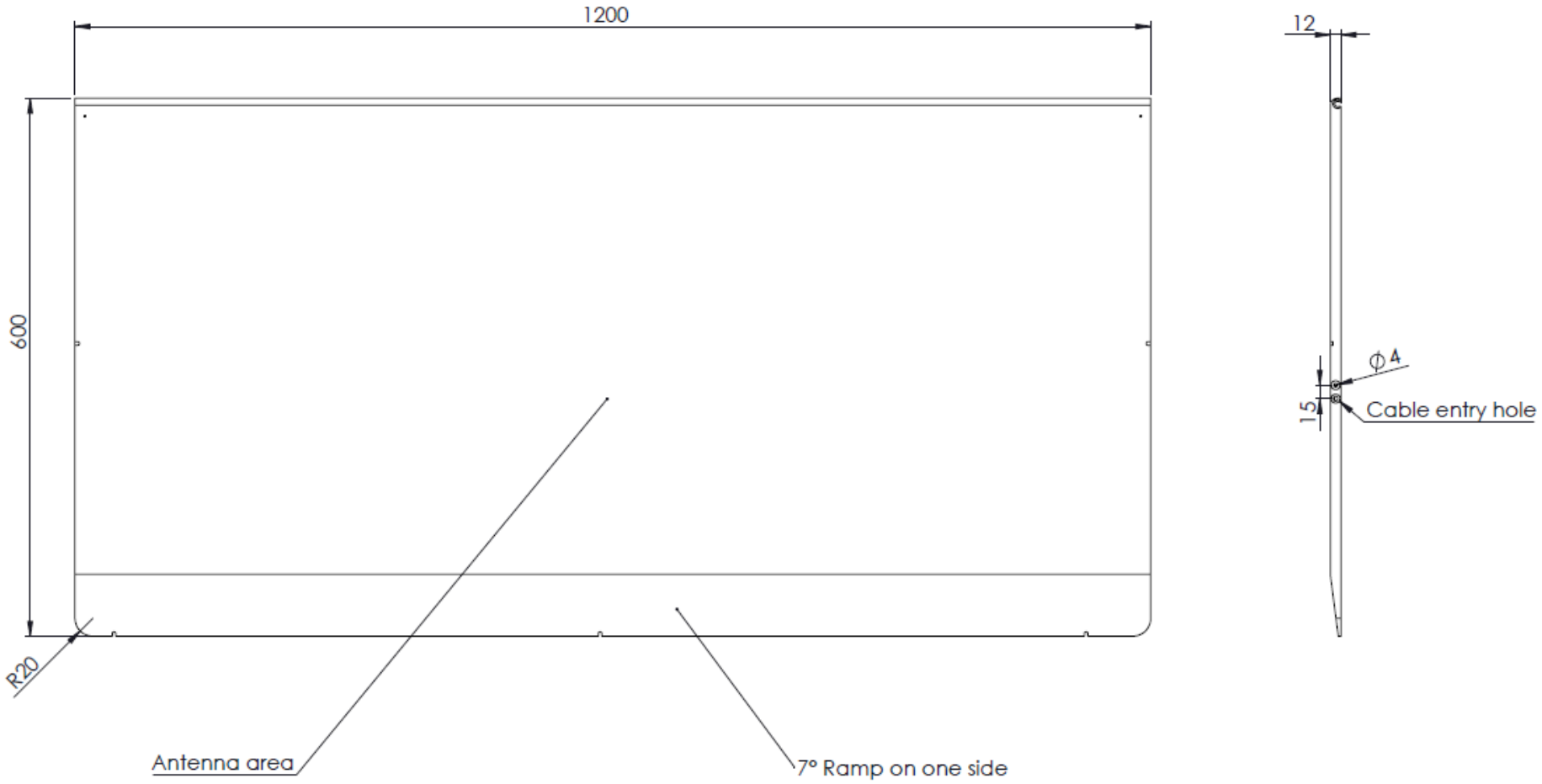
Datasheet v3.0



UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN mm
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

1200mm Under Belt Antenna

SIZE	DWG. NO.	REV
A3		B
SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

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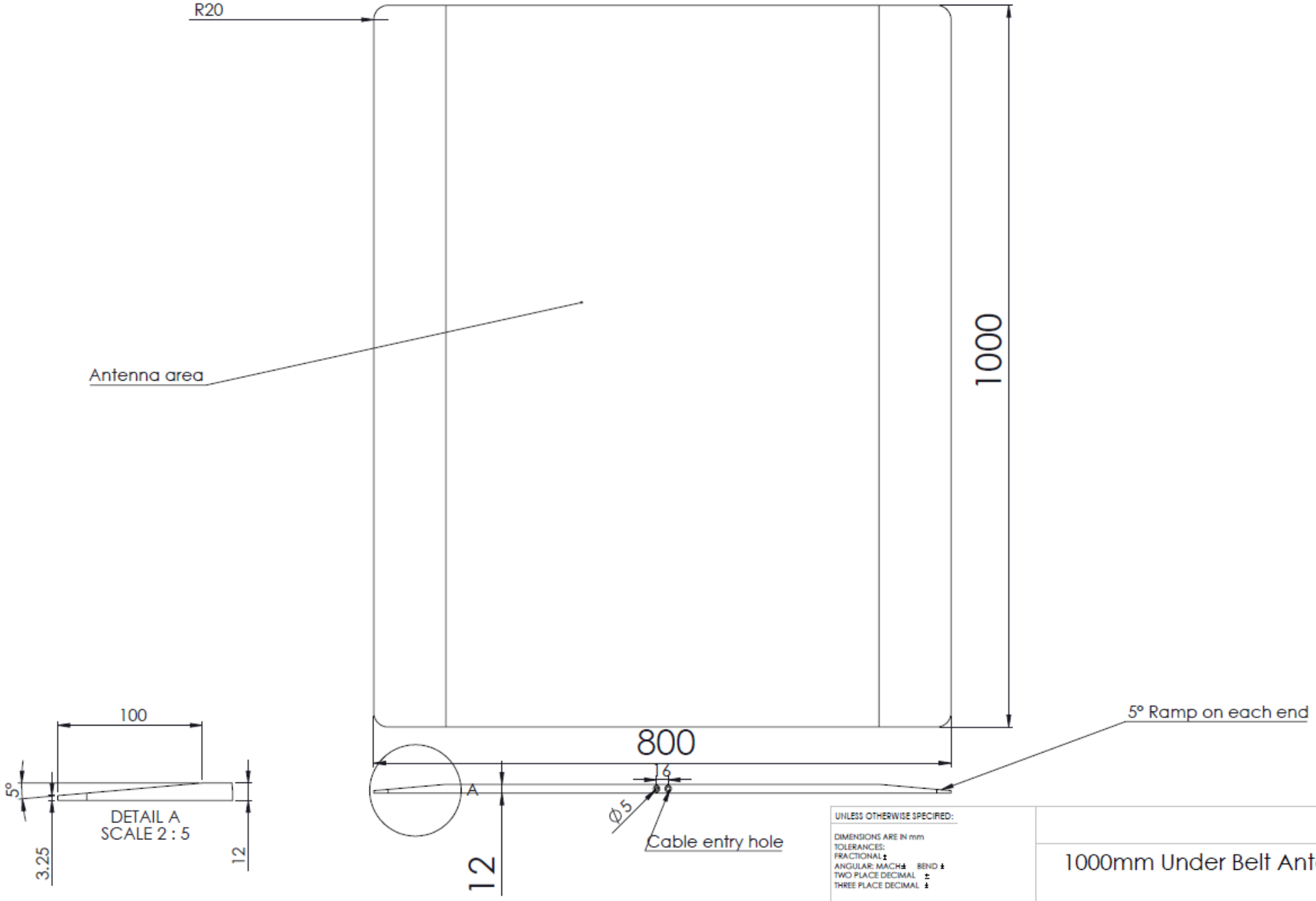

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THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

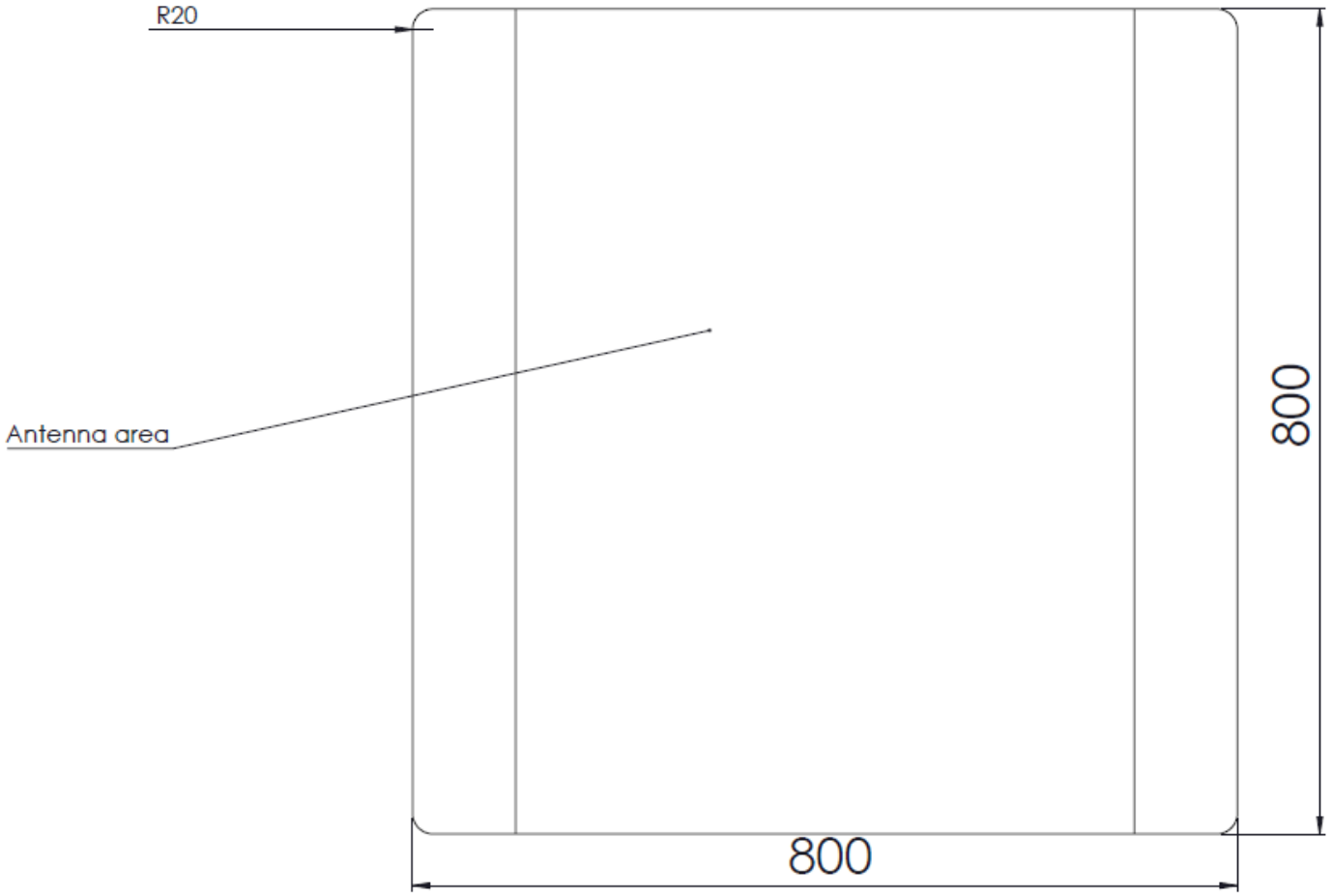
DO NOT SCALE DRAWING

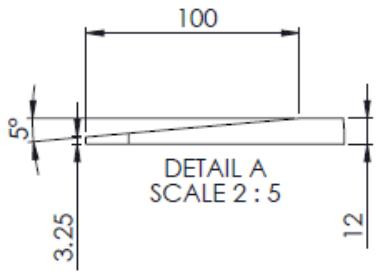
1000mm Under Belt Antenna

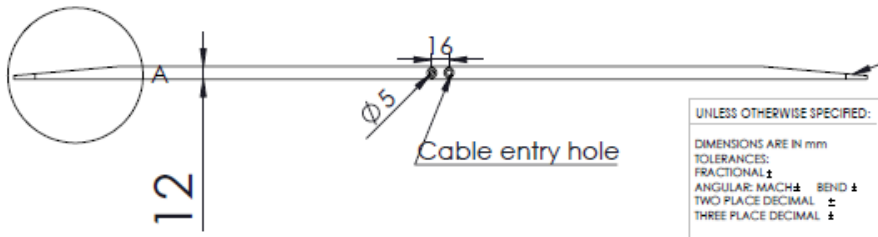
SIZE	DWG. NO.	REV
A3		B

SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

TIMES-7
INTELLIGENT TRACKING | SMART TECHNOLOGY







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DIMENSIONS ARE IN mm
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± BEND ±
TWO PLACE DECIMAL ±
THREE PLACE DECIMAL ±

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL

FINISH

DO NOT SCALE DRAWING

800mm Under Belt Antenna

SIZE	DWG. NO.	REV
A3		B
SCALE: 1:5	WEIGHT:	SHEET 1 OF 1

TIMES-7
INTELLIGENT TRACKING | SMART TECHNOLOGY