

Texaa®

Specification and data sheets

Acoustic accessories

Abso

January 2018

Regular updates available at texaa.com/documentation

Abso acoustic accessories	p. 4
Abso ceiling pads	p. 4
Ceiling-hung Abso cushions	p. 6
Abso cubes, cones and totems	p. 8
Free-standing Abso totems	p. 10
Technical characteristics	p. 12
Cleaning guidelines for Aeria	p. 14

Abso acoustic accessories

Abso objects are not only light and therefore easy to transport and arrange, but are also extremely good at absorbing sound reverberation. They embody the simplest expression of sound absorbing foam and Aeria in combination. They are flexible and fun, particularly easy to position and may be used to address the question of sound comfort a posteriori, without necessitating complex building work.

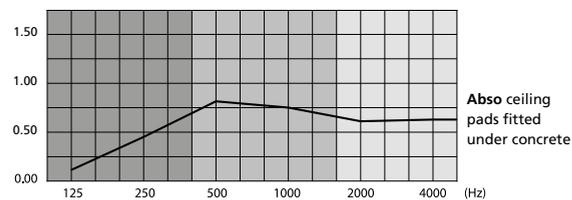
Abso ceiling pads

Especially designed for standard dropped ceilings with visible "T" runners, **Abso** pads clip effortlessly into the metal grid already in place to create quiet zones for working. They only take a couple of seconds to insert or remove. Each pad is slotted beneath the existing ceiling tiles with the help of our ultra-simple, quick-fit fastening system.

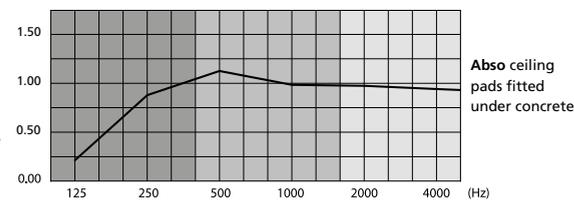
 ± 600 x 600 x 70 mm
Designed to fit most sizes of dropped ceiling grid.

Acoustic performance

Equivalent absorption area of an object A (m²)



α_{Sabine} – grouped



Frequencies (Hz)	125	250	500	1,000	2,000	4,000
Equivalent absorption area A (m ²) spacing: 1200 mm						
Ceiling p fitted under concrete	0.15	0.42	0.79	0.75	0.63	0.64

Test reports available on request – Standard NF EN 20354 / ISO 354

Frequencies (Hz)	125	250	500	1,000	2,000	4,000	α_w	class	NRC
α_{Sabine} – grouped									
Ceiling pad fitted under concrete	0.21	0.88	1.13	0.98	0.95	0.90	1	A	1

Test report and set-up available on request.

Specification for Abso ceiling pads

A high level of acoustic absorption is provided by **Texaa® Abso** ceiling pads, comprising:

- grey AP cellular foam
- sound transparent **Aeria** fabric on one side

Reaction to fire classification – complete object

Europe C-s3, d0
UK equivalent Class 1
USA Class A
France M1 non dripping

Performance indicators for Aeria

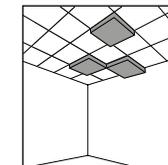
Water and oil repellence ≥ 5 (AATCC118 and AATCC193)
Antistatic properties $7.10^{10} \Omega$ (EN 1149-1)

Colours

Available in a range of 22 colours

Fitting method

- Inserted into a dropped ceiling grid**
Fitting is easier if the pads are not inserted side-by-side or around the edges of a dropped ceiling.



Type of dropped ceiling dimensions / weight / acoustic performance [specify]

	Frame (mm)	Dimensions (mm)*	Weight (kg)	Equivalent absorption area A (m ²) at medium frequencies	α_w
<input type="checkbox"/>	600 x 600 T24	pad 582 x 582 x 83	0.8	0.76	1
<input type="checkbox"/>	600 x 600 T24	slanting pad 582 x 582 x 116/50	0.8	0.76	-
<input type="checkbox"/>	600 x 600 T15	pad 592 x 592 x 70	0.8	0.76	-
<input type="checkbox"/>	610 x 610 T24	pad 592 x 592 x 70	0.8	0.76	-
<input type="checkbox"/>	625 x 625 T24	pad 607 x 607 x 70	0.8	0.76	-

* ±6 mm depending on the humidity

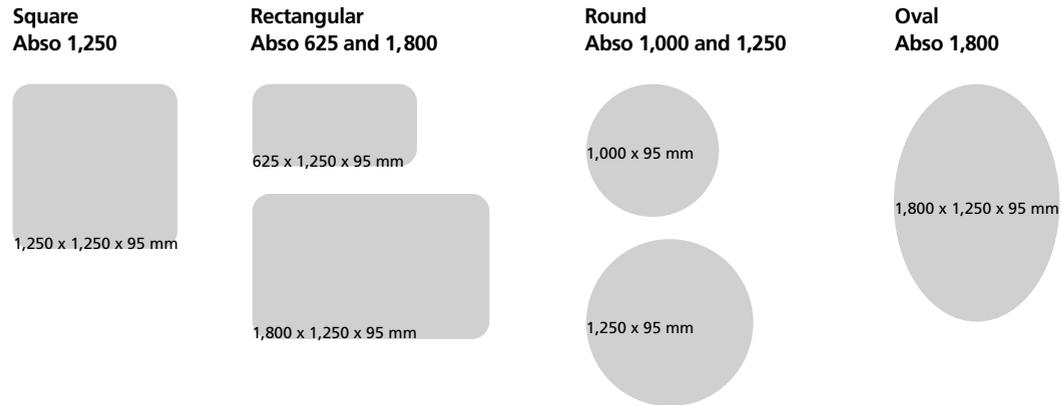
Production time
3 weeks

Professionals to be consulted
General fitters

Ceiling-hung Abso cushions

Composed only of sound absorbing foam inside a fabric cover made of **Aeria** stretched over a simple metal hoop, **Abso** cushions are now 95 mm thick to ensure maximum acoustic efficiency. Their shapes and sizes have been specifically selected to ensure that in combination they create a harmonious effect: simply 'pick and mix' a variety of cushions when working with larger volumes.

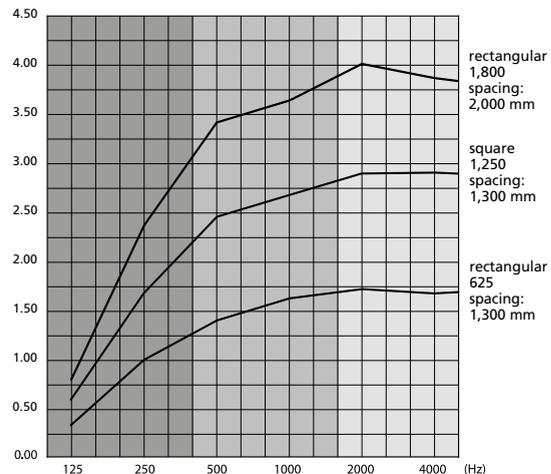
Unlike **Texaa**'s Stereo panels, **Abso** Cushions may not be positioned in groups to form seamless acoustic clouds.



Acoustic performance

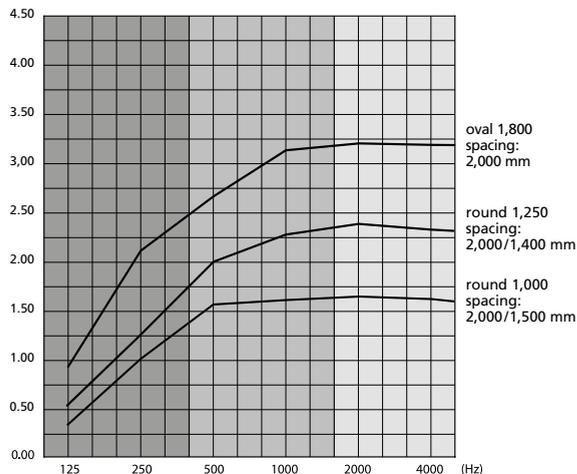
• For a square 1,250 or rectangular 625 and 1,800

Equivalent absorption area of an object A (m²)



• For a round 1,000 and 1,250 or oval 1,800

Equivalent absorption area of an object A (m²)



Frequencies (Hz)	125	250	500	1,000	2,000	4,000
square 1,250	0.65	1.69	2.48	2.68	2.8	2.83
rectangular 625	0.3	1.07	1.41	1.63	1.73	1.67
rectangular 1,800	0.85	2.33	3.45	3.62	4.07	3.87
round 1,000	0.32	1.07	1.52	1.57	1.66	1.59
round 1,250	0.55	1.26	2.04	2.28	2.38	2.32
oval 1,800	0.83	2.15	2.68	3.17	3.21	3.19

Test reports available on request – Standard NF EN 20354 / ISO 354.

Specification for Abso cushions

A high level of acoustic absorption is provided by the **Texaa**® **Abso** range of cushion:

- square with rounded corners
- rectangular with rounded corners
- round
- oval

The cushions comprise: a grey AP cellular foam, a powder-coated steel hoop and a removable and machine-washable cover made of sound transparent **Aeria** fabric.

Reaction to fire classification – complete object

Europe C-s3, d0

UK equivalent Class 1

USA Class A

France M1 non dripping

Performance indicators for Aeria

Water and oil repellence ≥ 5 (AATCC118 and AATCC193)

Antistatic properties 7.10¹⁰ Ω (EN1149-1)

Colours

Available in a range of 22 colours

Fitting methods

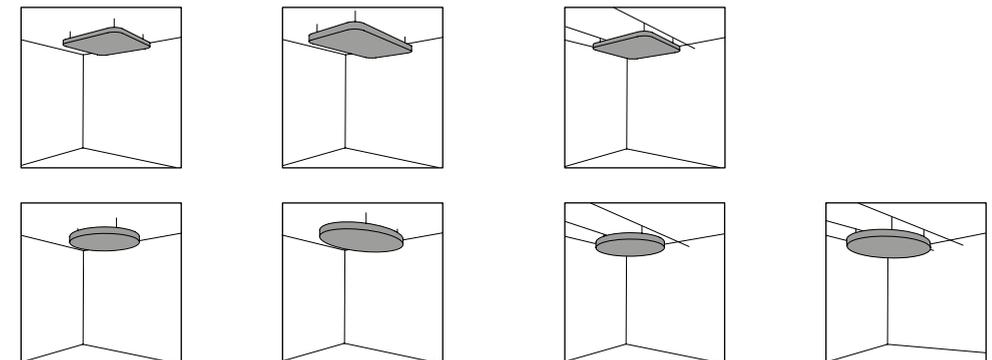
Suspended separately using vertical cables

Each **Abso** cushion is suspended from the ceiling in a horizontal position using 4 vertical cables (3 cables for round 1,000 and 1,250 cushions) made of galvanised steel (1.5 mm in diameter, 1,000 mm long), fitted with a threaded end-piece (M6) and an adjustable hook.

Suspended under horizontal cables

Each **Abso** cushion is suspended under 2 horizontal cables (not supplied) using 4 vertical cables (3 cables for round 1,000 and 1,250 cushions) made of galvanised steel (1.5 mm in diameter, 1,000 mm long), fitted with a stainless steel cross-shaped cable clamp and an adjustable hook.

The cross-shaped cable clamp is compatible with horizontal cables 2 to 6 mm in diameter.



Dimensions / weight / acoustic performance [specify]

Cushions	Dimensions (mm)	Weight (kg)	Equivalent absorption area A (m ²) at medium frequencies
<input type="checkbox"/> square 1,250	1,250 x 1,250 x 95	4.2	2.63
<input type="checkbox"/> rectangular 625	625 x 1,250 x 95	2.7	1.51
<input type="checkbox"/> rectangular 1,800	1,800 x 1,250 x 95	5.9	3.65
<input type="checkbox"/> round 1,000	1,000 x 95	2.5	1.55
<input type="checkbox"/> round 1,250	1,250 x 95	3.2	2.18
<input type="checkbox"/> oval 1,800	1,800 x 1,250 x 95	4.2	2.99

Production time

3 weeks

Professionals to be consulted

General fitters

Abso cubes, cones and totems

These objects are so light they may be hung from vertical cables. Their simple shapes provide an effective solution for even the most challenging acoustic reverberation problems. Structuring or playful, they bring everyday environments to life and adapt easily to all types of ceiling.

Abso cones 500 and 1,900



Abso cubes 380, 500 and 750



Abso totems



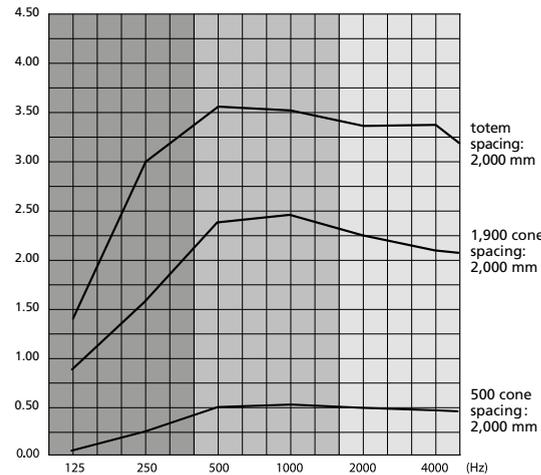
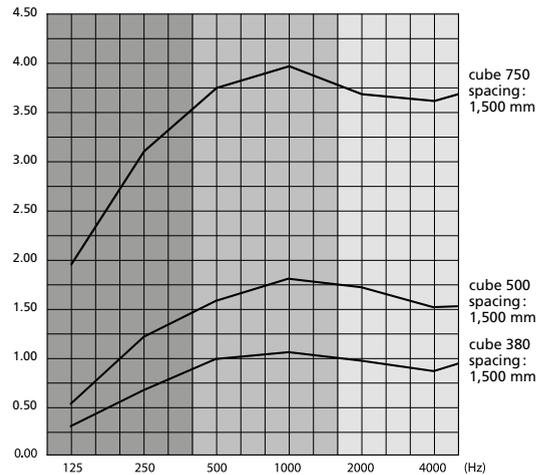
Acoustic performance

• For a cube 380, 500 or 750

Equivalent absorption area of an object A (m²)

• For a cone 500 and 1,900 or for a totem

Equivalent absorption area of an object A (m²)



Frequencies (Hz)	125	250	500	1,000	2,000	4,000
cube 380	0.27	0.62	0.98	1.04	0.97	0.86
cube 500	0.52	1.20	1.61	1.79	1.73	1.51
cube 750	1.94	3.10	3.75	3.91	3.70	3.59
cone 500	0.06	0.28	0.50	0.59	0.50	0.47
cone 1900	0.81	1.53	2.37	2.48	2.25	2.13
totem	1.43	3.09	3.57	3.51	3.32	3.35

Test reports available on request – Standard NF EN 20354 / ISO 354.

Specification for Abso ceiling-hung cubes, cones and totems

A high level of acoustic absorption is provided by Texaa® Abso:

- cubes
- cones
- totems

The objects comprise: a grey AP cellular foam and a removable and machine-washable cover made of sound transparent Aeria fabric.

Reaction to fire classification

Europe C-s3, d0 – complete object

UK equivalent Class 1 – complete object

USA Class A – complete object

France M1 non dripping for Aeria fabric cover and sound absorber

Performance indicators for Aeria

Water and oil repellence ≥ 5 (AATCC118 and AATCC193)

Antistatic properties 7.10¹⁰ Ω (EN1149-1)

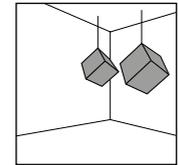
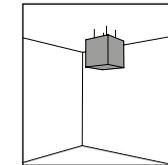
Colours

Available in a range of 22 colours

Fitting methods

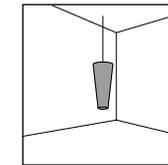
Ceiling-hung cubes

Suspended using a powder-coated steel hoop or a fabric strap and galvanised steel cables (1.5 mm in diameter, 1,000 mm long), fitted with a threaded end-piece (M6) and an adjustable hook.



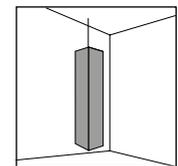
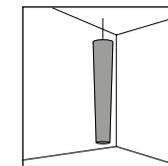
Ceiling-hung 500 cone

Suspended using a ring and a galvanised steel cable (1.5 mm in diameter, 1,000 mm long), fitted with a threaded end-piece (M6) and an adjustable hook.



Ceiling-hung cone 1900 and totem

Suspended using a powder-coated steel hoop and galvanised steel cables (1.5 mm in diameter, 1,000 mm long), fitted with a threaded end-piece (M6) and an adjustable hook.



Dimensions / weight / acoustic performance [specify]

Objects	Dimensions (mm)	Weight (kg)	Equivalent absorption area A (m ²) at medium frequencies
<input type="checkbox"/> cube 380	380 x 380 x 380	1.4 (hoop)/0.8 (strap)	1.00
<input type="checkbox"/> cube 500	500 x 500 x 500	2.4 (hoop)/1.6 (strap)	1.65
<input type="checkbox"/> cube 750	750 x 750 x 750	6.7 (hoop)/5.4 (strap)	3.82
<input type="checkbox"/> cone 500	500 x 290 x 165	0.35	0.55
<input type="checkbox"/> cone 1900	1,900 x 385 x 235	2.1	2.44
<input type="checkbox"/> totem	2,000 x 380 x 380	4.1	3.55

Production time

3 weeks

Professionals to be consulted

General fitters

Free-standing Abso totems

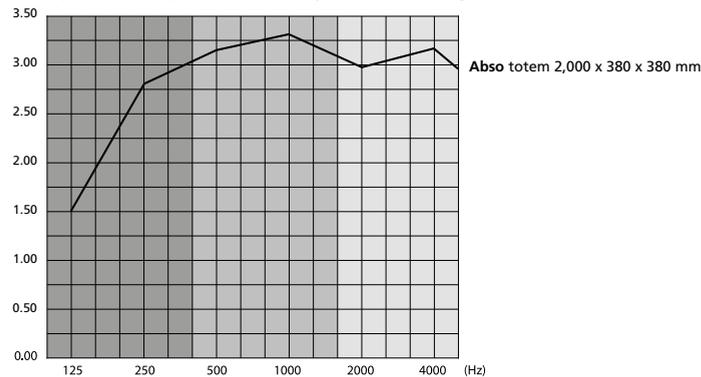
Abso totems are an effective means of organising open spaces and portioning off quiet zones. They are particularly useful in large halls, corridors, meeting rooms, etc. The whole range is inventively decorative, highly sound absorbent and immediately operational.

2,000 x 380 x 380 mm

Acoustic performance

- For a totem measuring 2,000 x 380 x 380 mm

Equivalent absorption area of an object A (m²) – spacing : 1,700 mm



Frequencies (Hz)	125	250	500	1,000	2,000	4,000
Totem 2,000 x 380 x 380 mm	1.51	2.81	3.14	3.27	2.99	3.09

Test reports available on request – Standard NF EN 20354 / ISO 354.

Specification for Abso totem

A high level of acoustic absorption is provided by Texaa® Abso totems, comprising:

- grey AP cellular foam
- a removable and machine-washable cover made of sound transparent Aeria fabric
- a stand, available in either brushed stainless steel or white powder-coated steel

Each totem stands on the floor.

Reaction to fire classification

Europe C-s3, d0 – complete object
 UK equivalent Class 1 – complete object
 USA Class A – complete object
 France M1 non dripping for Aeria fabric cover and sound absorber

Performance indicators for Aeria

Water and oil repellence ≥ 5 (AATCC118 and AATCC193)
 Antistatic properties 7.10¹⁰ Ω (EN 1149-1)

Colours

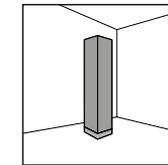
Available in a range of 22 colours

Fitting method

Free-standing

NB: when humidity levels are very low, crease lines sometimes appear on the cover. This can easily be remedied by smoothing the surplus fabric down into the stand.

- Brushed stainless steel stand
- White powder-coated steel stand



Brushed stainless steel stand



White powder-coated steel stand

Dimensions / weight / acoustic performance [specify]

Dimensions (mm)	Weight (kg)	Equivalent absorption area A (m ²) at medium frequencies
<input type="checkbox"/> Totem 2,000 x 380 x 380	7.35	3.22
of which stand (depth: 58 mm)	3.60	-

Production time

3 weeks

Professionals to be consulted

General fitters

Technical characteristics: Abso

Definition	Abso
Fitting	ceiling-hung or free-standing
Materials used	Aeria* / grey AP foam
Colours	22 colours
Physical properties	
Light reflectance (for Nacre colour, MR 640)	81 %
Durability	
Mechanical properties	
- Abrasion resistance (EN 530 – number of rubs)	> 40,000
- Fraying	none
- Variation in dimensions (under normal conditions of T°C and relative humidity)	±1 %
- Colour fastness (ISO 105-B02 – scale from 1 to 8)	≥ 5
- Antistatic properties (EN 1149-1)	$7 \cdot 10^{10} \Omega$
- Water repellence and oil repellence AATCC118 and AATCC193 (scale from 1 to 8)	≥ 5
- Conditions of normal exposure	relative humidity between 30 % and 75 % and temperature between 10 °C and 30 °C
- Conditions of exceptional exposure	relative humidity between 20 % and 90 % and temperature between 10 °C and 30 °C
- Mechanical strength of the fastenings	15 kg /fixing point
Health and safety	
Reaction to fire classification	
- Europe	C-s3, d0 – complete object
- United Kingdom	equivalent Class 1 – complete object
- France	M1 non-dripping for Aeria fabric cover and sound absorber
- USA	M1 non-dripping – complete object for cushions and ceiling pads
- USA	Class A – complete object
Gross heat of combustion (EN ISO 1716)	19.915 MJ/kg
Environmental standards	
Development of micro-organisms	the materials used reduce the presence of house dust mites and micro-organisms
HQE® High Quality Environmental standard (standard EN 15804)	-
Emissions of VOC and formaldehyde (ISO 16000) French health labelling / in accordance with German protocol AgBB (May 2010)	A+
Contribution to LEED / BREEAM certification	
- environmental declaration	
- product declaration	
- air emissions	
- acoustic performance	2 points
Cleaning	
Method	vacuum clean every one to five years, depending on the conditions of use*** cover is removable and machine- washable at 30 °C, dry flat**

* Aeria sound transparent fabric patented internationally by Texaa®

** except for insertable ceiling pads

*** refer to the cleaning and maintenance sheets

Cleaning guidelines for Aeria

To protect the true colour of your **Aeria** fabric, we advise you clean it regularly by:

- removing dust with a soft brush or vacuum cleaner,
- using an absorbent cloth to remove spilt liquids,
- cleaning marks or spillages quickly, before they have time to dry and stain the fabric.

Aeria is treated with a durable water repellent fluoropolymer, so it is usually enough to remove any spillages or dirt by gently dabbing the marked fabric. Never rub the fabric.

If a stain proves harder to remove, please follow the following instructions.

For water-based liquids (tea, coffee, soft drinks, wine, etc.)

If the liquids have penetrated the fabric, use a vacuum cleaner to remove any dust from the stained area. Then, rehydrate the stain by dabbing the marked area with one hand using a cloth dampened with clean water, and dry the area with the other hand using a dry, clean cloth. If the stain persists, renew the process using water and a little soap.

For oil-based liquids

Dab the stain with a clean cloth dampened with undiluted solvent-based cleaning fluid. Remember to fold the cloth frequently, so that the stain is always in contact with a clean part of the cloth's surface.

For semi-solid stains, such as butter, ketchup etc.

Remove any remaining solid material with a spatula and proceed with the cleaning method detailed above for oil-based liquids.

For colorant-based stains (marker pen, biro, ink etc.)

Dab the stain gently with a clean cloth dampened with undiluted solvent-based cleaning fluid. Remember to fold the cloth frequently, so that the stain is always in contact with a clean part of the cloth's surface.

In order to avoid the formation of rings, please clean stains and marks from the outside towards the middle, and then use a hair-dryer to speed up the drying process.

Texaa® is an independent company with a staff of fifty-five, specialised in the manufacturing and distribution of acoustic materials. Our products all comprise a sound-absorbing foam within a layer of **Aeria***, a sound transparent textile available in a range of 22 colours. All our products are designed and manufactured near Bordeaux, and we follow them all the way, from knitting machine to final assembly.

Texaa® has a team of specialist project managers, offering in-depth specialist knowledge of our products, of how they are manufactured and how they may be used in situ. They accompany individual projects, from the design table to the building site.

All **Texaa®** products are highly durable and easy to clean. Our panels and objects may be repaired and returned to use. Their textile covers are removable and machine washable. We are proud to offer an efficient product follow-up service and will, upon request, replace fabric claddings or removable covers which are over 20 years old.

***Aeria**, our sound transparent textile with an exclusive **Texaa®** patent.

Texaa®
textile, acoustics, architecture

United Kingdom
Lincoln House
4th Floor, 300 High Holborn
London WC1V 7JH

Tel.: 020 7092 3435
e-mail: contact@texaa.co.uk
www.texaa.co.uk

USA
2825 East Cottonwood Parkway
Suite 500 Salt Lake City,
UT 84121

Tel.: (801) 783-1231
e-mail: contact@texaa.com
www.texaa.com

© January 2018 **Texaa®**
All rights reserved