



INSTALLATION THEATRICAL ENGINEERING



**THE NEXT GENERATION
OF IFR THEATRE WOOL**

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INTRODUCTION

After 40 years working within the theatre drapery industry, ITE have had the opportunity to try and test hundreds of different woolen fabrics. Based on client feedback, coupled with our collective 100+ years of knowledge, ITE now stocks only the best wool fabric available in the world.

ITE IFR Theatre Wool

WEIGHT OPTIONS: 580gsm (standard), 375gsm (light) & 650gsm (heavy)

The 'ITE IFR Theatre Wool' is the most popular wool used for stage masking and general purpose drapes. This fabric is made up of 80% wool serge & 20% nylon, polyester & viscose. This combination allows the fabric to retain its woolen feel and form with the added benefits of improved durability & fabric density, reduced elasticity and resistance to abrasions and stains.

FABRIC LONGEVITY & FLAME RETARDANCY

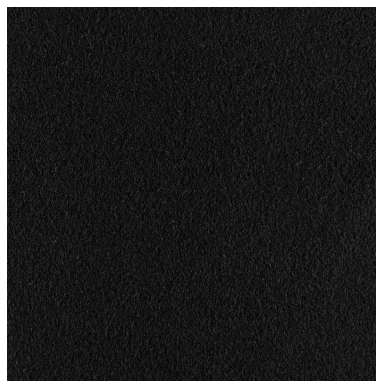
All ITE wool fabrics are IFR (Inherently flame retardant) simply meaning that the flammability properties of the fabric will not reduce until the fabric itself degrades. Fabric longevity depends on numerous factors such as exposure to light, dampness, dust and other elements. If well maintained, it is not uncommon for wool drapes to remain in good condition for upwards of 15 years.

ACOUSTIC PROPERTIES

All wool variants are twill fabrics featuring similar acoustic properties at the forefront in sound isolation and absorption. The high fabric density reduces the extent to which sound can transmit through the fabric whilst also providing high absorption in order to reduce echo and reverberation in any room. This wool is ideal for professional sound recording rooms, stages, TV studios and any other space where sound absorption and proofing is of importance. Drapery fullness is generally 50%, however to maximize the fabrics acoustic properties, this can be increased to 100%.

LIGHT PENETRATION

All wool variants are two up-two down weaves and feature similar light absorbing characteristics. The high fabric density reduces light transmission through the material especially when gathered. For most applications this is sufficient, however in some situations where the fabric will be exposed to powerful high luminous lighting, lining is required to ensure 100% blackout.



FIRE RETARDANCY

All ITE fabrics, including both wool variants are tested and compliant as to AS1530.2 & 3.

VERTICAL BURN TEST (AS1530.2)

The Building Code of Australia (BCA) set flammability requirements for materials including drapery. The BCA requires fabric to be tested in accordance with AS1530.2 where a flammability index must be no greater than 5. Both ITE wool options are independently tested and certified as to AS1530 part 2. The key results are below:

ITE IFR Theatre Wool

Tester: AWTa Product Testing

Flammability Index: 1

Spread of Flame: 0

Heat Factor: 1

ITE IFR Proscenium Wool

Tester: AWTa Product Testing

Flammability Index: 1

Spread of Flame: 0

Heat Factor: 1

RADIANT HEAT (AS1530.3)

Both ITE wool options are tested and certified as to AS1530 part 3, the key results are below:

ITE IFR Theatre Wool

Tester: AWTa Product Testing

Ignitability Index: 17

Spread of Flame: 0

Heat Evolved: 1

Smoke Developed: 5

ITE IFR Proscenium Wool

Tester: AWTa Product Testing

Ignitability Index: 16

Spread of Flame: 0

Heat Evolved: 3

Smoke Developed: 5

RECYCLED AUSTRALIAN WOOL

Both fabrics are almost entirely made from recycled Australian wool noils, from garments and other textiles, as opposed to virgin wool. The use of recycled wool ensures a dramatic reduction in sheep required for shearing, the amount of waste in landfill, reduction in land required for grazing and energy consumption.





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