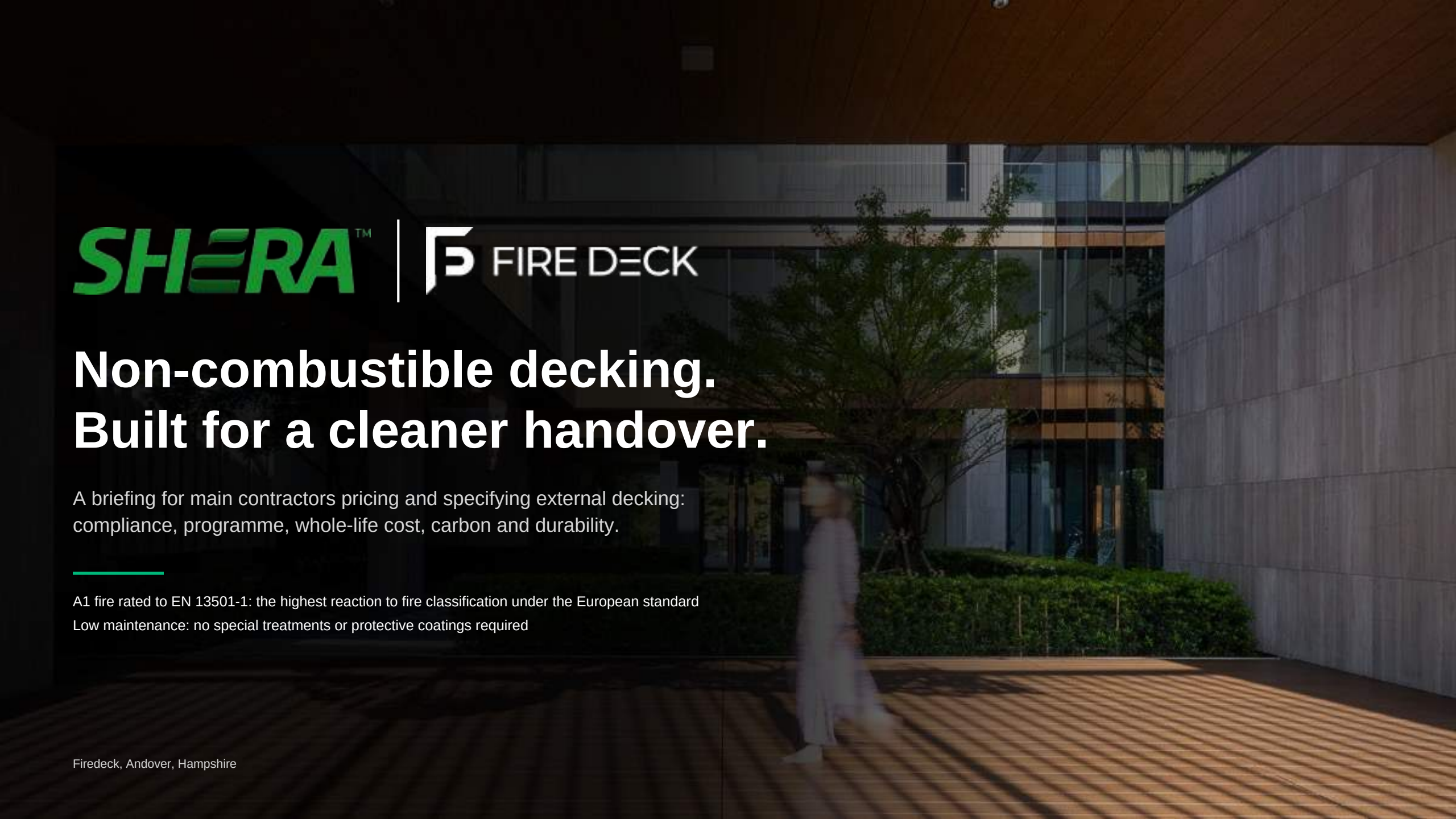
SHERA™ | FIRE DECK

Non-combustible decking. Built for a cleaner handover.

A briefing for main contractors pricing and specifying external decking: compliance, programme, whole-life cost, carbon and durability.

A1 fire rated to EN 13501-1: the highest reaction to fire classification under the European standard

Low maintenance: no special treatments or protective coatings required



Firedeck, Andover, Hampshire

THE SHORT VERSION

Why SHERA by FIREDECK belongs in your tender

Compliance

A1 fire rating | EN 13501-1
Non-combustible board. Suits balconies where A1 or A2-s1,d0 materials are required.

Programme

Concealed Clip Lock fixing in five steps. Firedeck can supply the subframe, or use your own to the published specification.

Whole-life cost

Low maintenance. Care is sweeping and washing. No oil, wax or polish in the maintenance routine.

Durability

Freeze/thaw, warm water, heat/rain and soak/dry tests all recorded as Pass.

Sustainability

Low carbon SHERA Gen 3 cement and fibres from FSC-certified plantations.

Guarantee

Term, scope and conditions are being confirmed with the manufacturer.



COST

Whole-life cost: price the deck, not the upkeep

What your client is not signing up to

The boards arrive factory-treated, and the care guide asks for sweeping and washing only. There is no painting or treatment cycle to build into the O&M manual or the client's budget.



Sweep regularly with a soft brush



Clean with water and mild detergent



Already treated: no need for paint or treatment

Timber decking is commonly re-oiled or re-stained to hold its colour. Removing that cycle takes a repeat maintenance visit out of the client's plan.

Supply price for tender

Item	Unit	Price
Board, 200 mm, supply	m^2	**Refer to latest pricing matrix**
Clip Lock clips and screws	m^2	**Refer to pricing matrix**
Delivery to site	per job	**Price on request**

Ask our team for a project quotation against your drawings and areas.

Tender tip Compare decking options on supply cost plus the maintenance your client will carry after handover, not on supply cost alone.

PROGRAMME

Installation: five steps, concealed fixing

1 Prepare the substructure

Level the frame. Joists at no more than 400 mm centres. Galvanised steel box section, minimum 50.8 x 50.8 mm, 2.3 mm thick.

2 Start clip and first board

Fix the start clip to each joist with the supplied screws and slide the first board fully home.

3 Clip Lock the next board

Fix a clip at every joist. Tension the screw so it is neither over-tightened nor loose.

4 Continue the run

Slide boards into the clips until locked. Boards butt up to each other.

5 Final inspection

Check alignment, fixing security and spacing before handover.



Estimating and logistics

Boards per m^2	2.08 (200 mm board)
Board weight	18.28 kg per board, 2,400 mm long
Board self-weight	approx. 38 kg/m^2, excl. substructure
Fixings	Clip box 48 + screws; start clip box 18
Lead time and stock	Upon request

SAFETY AND COMPLIANCE

Fire performance you can put in the tender return

A1

Reaction to fire

EN 13501-1

Non-combustible

Fire test on building material

BS 476 Part 4

I = 0

Fire propagation index

BS 476 Part 6

Class 1

Surface spread of flame

BS 476 Part 7

Why it matters on UK projects

In England, Regulation 7(2) requires materials in balconies (“specified attachments”) on relevant buildings with a storey at least 18 m high to be Class A1 or A2-s1,d0. Approved Document B guidance also covers balconies on residential buildings from 11 m.

An A1 board takes the decking out of the combustible-materials question on those elevations, and avoids a late redesign if the fire strategy tightens.

Classification applies to the board, not the full build-up. Confirm balcony or roof terrace status, substructure and fixings with the project fire engineer.

Slip resistance

Textured Cassia and Straight Grain surfaces are described in manufacturer literature as an anti-slip finish.

SUSTAINABILITY AND CARBON

Lower-carbon cement, responsibly sourced fibre

Low carbon cement: SHERA Gen 3

Boards are made with SHERA’s Gen 3 low-carbon cement.

FSC-certified fibre

Reinforcing fibres come from FSC-certified, responsibly managed plantations.

Low maintenance

No special treatments or protective coatings required.

EPD and ISO 14001

Marks appear in manufacturer literature. Documents are being obtained for UK use.

We will not quote embodied carbon until the EPD is in hand. Ask for it with your tender pack.



The Teak, Tontaan Market, Khon Kaen, Thailand

DURABILITY

Built to stay right after practical completion

Durability tests

Freeze / thaw	ASTM C1185 & EN 12467	✓ **Pass**
Warm water	ASTM C1185 & EN 12467	✓ **Pass**
Heat / rain	ASTM C1185 & EN 12467	✓ **Pass**
Soak / dry	EN 12467	✓ **Pass**

Physical properties

Modulus of rupture (wet)	**over 8 MPa**
Modulus of elasticity (wet)	**over 2,500 MPa**
Toughness (wet)	**at least 16 J/m^2**
Density	**1,300 to 1,400 kg/m^3**
Water absorption	**up to 35%**
Thickness tolerance	**+/- 1.5 mm**



6x6 Protex

Protective treatment on all six sides, with a six-layer system on the visible face: UV, Weather, Colour, Nano, Primer and Fibre Protex.

True Colour Through

Colour runs through the board rather than sitting only on the surface, so normal surface wear is less noticeable.

What that means after handover

- ✓ Long-lasting appearance
- ✓ Weather and UV protection
- ✓ Surface durability
- ✓ Protection of the board

COMPARISON

SHERA by FIREDECK against timber and WPC

	SHERA by FIREDECK	Timber	WPC composite
Reaction to fire	✓ A1, non-combustible	✗ Combustible	✗ Combustible; class varies by product
Balconies needing A1 / A2-s1,d0	✓ Board meets the class	✗ Does not meet	✗ Does not meet (typical products)
Routine care	✓ Sweep and wash; no oil or wax	✗ Periodic oiling or staining	– Washing; generally low care
Movement and warping	✓ Non-warping claim; durability tests Pass	✗ Can cup, twist and check	✗ Thermal movement; can warp
Colour under UV	✓ Colour through + 6x6 Protex	✗ Greys unless treated	✗ Can fade, varies by product
Moisture	✓ Freeze/thaw and soak/dry Pass	✗ Rot risk if poorly detailed	✗ Swelling risk if uncapped
Material basis	✓ Low-carbon cement, FSC fibre	✓ Renewable if certified	– Plastic and wood flour

FINISHES

Three finishes, one width: 200 mm

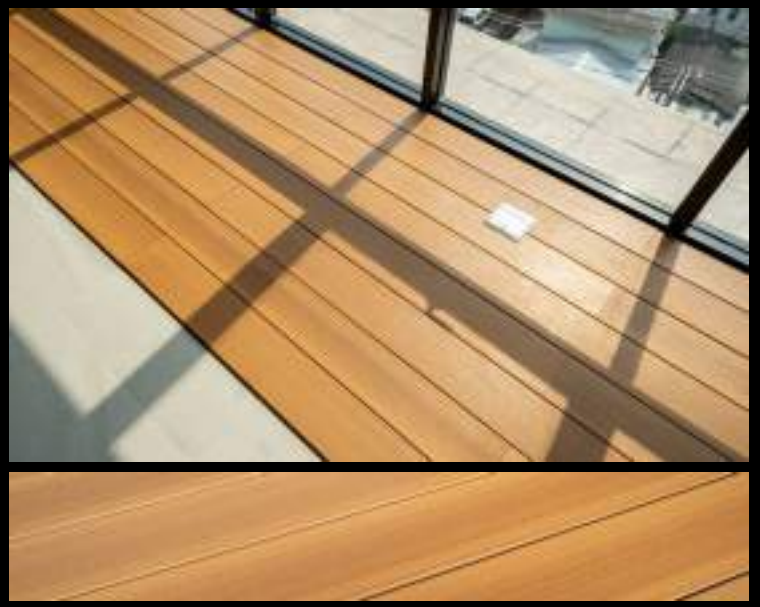


Anthracite

CASSIA TEXTURE

Deep black for contemporary façades, balconies and roof terraces.

Installed: Bunditaram Meditation Centre, Lopburi, Thailand



The Teak

STRAIGHT GRAIN, TWO-TONE

Warm teak character for residential and amenity spaces.

Installed reference project



Chestnut Brown

CASSIA TEXTURE

Rich natural warmth for landscaped and hospitality settings.

Installed reference project

Colours in print and on screen vary. Order physical samples before the client signs off.

CARE AND MAINTENANCE

A care guide you can hand straight into the O&M manual

DO ✓


Sweep regularly with a soft brush


Clean with water and mild detergent


Use rubber or plastic furniture feet


Lift furniture; do not drag it


Clean oil and food stains promptly


Keep drainage clear; avoid standing water

DO NOT ✗


No abrasive or sharp cleaning tools


No close-range pressure washing


No strong acid or alkaline cleaners


No abrasive salt grit


No metal furniture feet


No oil, wax or polish

SHERA™ | FIRE DECK

Price it into your next tender

Send your drawings and decking areas. We will come back with samples in all three finishes, the documentation pack and the technical answers your client's team will ask for.

Request a Free Sample

Talk to Our Technical Team

Firedeck
Unit 18 Smeaton Road, Portway West Business Park
Andover, Hampshire SP10 3LF

+44 (0)1264 311 113

