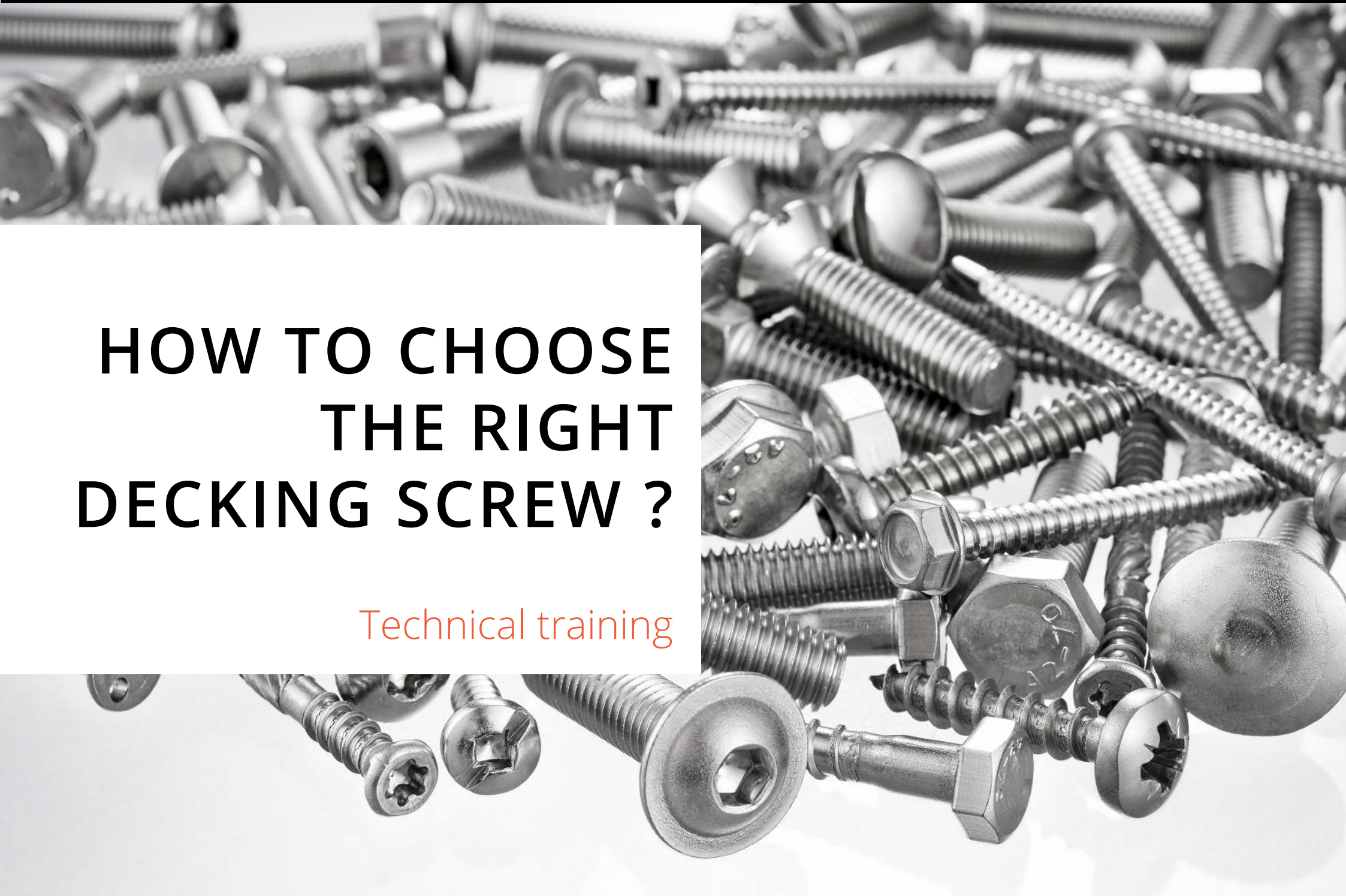


HOW TO CHOOSE THE RIGHT DECKING SCREW ?

Technical training



SUMMARY

- Main questions to well choose its screw
- Norms to be respected
- Patio assembly
- Acton decking screws

What is the patio frame ?

Slab, concrete, tiles,
lawn, soil,
gravel...

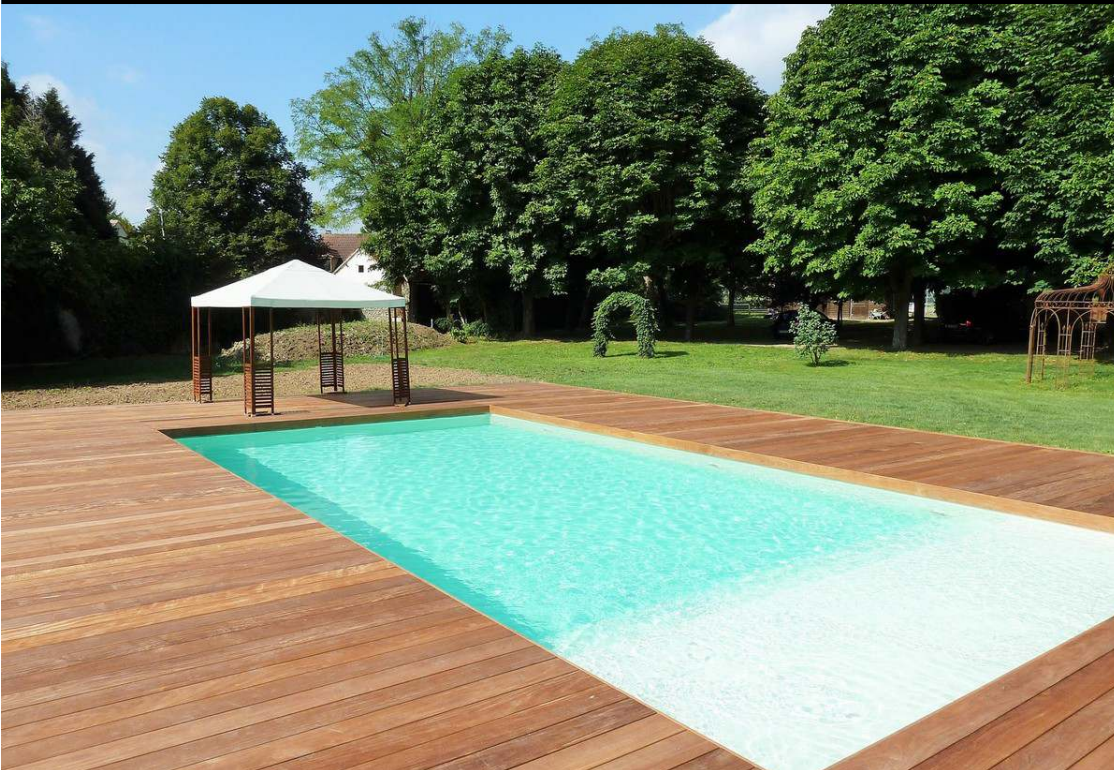
What is the environment ?

Coastal, maritime,
mountainous area



THE PLACE OF THE PATIO

- Sheltered/dry area : **INOX A2 (AISI 304)**
- Pool/seaside : **INOX A4 (AISI 316)**





THE WOOD SPECIE

- Softwood (autoclaved pine...)
- Hardwood or exotic (Bangkirai, Ipé, Teck...)
- Composite wood



- **NF DTU 51.4 platelages extérieurs bois**

This document rule the conception and realisation of wood patios



- **NF B54 - 040 lames de platelages extérieurs bois**

This norm gives the characteristics and appreciation criterion for wood boards in quality solid wood.



FCBA N° 210.461.1208

- **NF EN 335 classe d'emploi des bois**

Durability of the wood and wood materials (definitions, application to solid wood and to wood materials)

- **Conception guide of wood patios from the ATB
(Association Terrasse Bois)**





STEPS TO FOLLOW

- Definition of the board dimensions (length, width et thickness), the patio shape and the laying type
- Compulsory: a support with a slope for water evacuation
- Wood species must be the same for boards and and ledger boards
- Minimum thickness of the ledger boards = (or at least 1,9 times the thickness of the boards)
- The structure needs to be isolated from the ground for the humidity elimination (platforms, bitumen supports...)
- The maximum distance between the ledger boards must be 50 cm



- Deck boards must be fixed at 90° on the ledger boards
- Dilatation space of 5 mm minimum between the deck boards
- Compulsory : pre-drilling and milling of the deck boards to avoid the wood splitting
- Length of the screw = 2,5 times minimum the thickness of the board
- Screws must be fixed at 15-20 mm maximum of the edge of the deck board
- 35 to 40 screw per m² according to norm DTU 51.4
- 2 screws minimum at each fixation point

NUMBER OF SCREW PER M²

L E	10 cm	12 cm	14 cm
40 cm	53	44	38
45 cm	46	39	33
50 cm	42	35	30

- E = space between the ledge boards
- L = width of the deck boards

62326

DECKING SCREW - SMALL COUNTERSUNK HEAD SIMPLE THREAD - SIX LOBES IMPRINT

- Austenitic stainless steel A2 graded
- Lubricate coat WAX type
- Small countersunk head (60-65° angle)
- Notching under the head
- Cutting point (22-28° angle)
- Notched threading
- Threading bits included
- Conformity to DTU 51.4
- Available in two colors : S.S. and brown
- Available in basic boxes and in plastic buckets



APPLICATIONS

- Hardwood patios: exotic and deciduous woods
- Outside wood constructions

DECKING SCREW - SMALL COUNTERSUNK HEAD DOUBLE THREADING - 6 LOBES IMPRINT

62327/64327

- Austenitic stainless steel A2 graded/A4 graded
- Lubricate coat WAX type
- Small countersunk head (angle 60°)
- Notching under the head
- Helical thread
- Cutting point (23-28° angle)
- Threading bits included
- Conformity to DTU 51.4
- Available in basic boxes and in plastic buckets



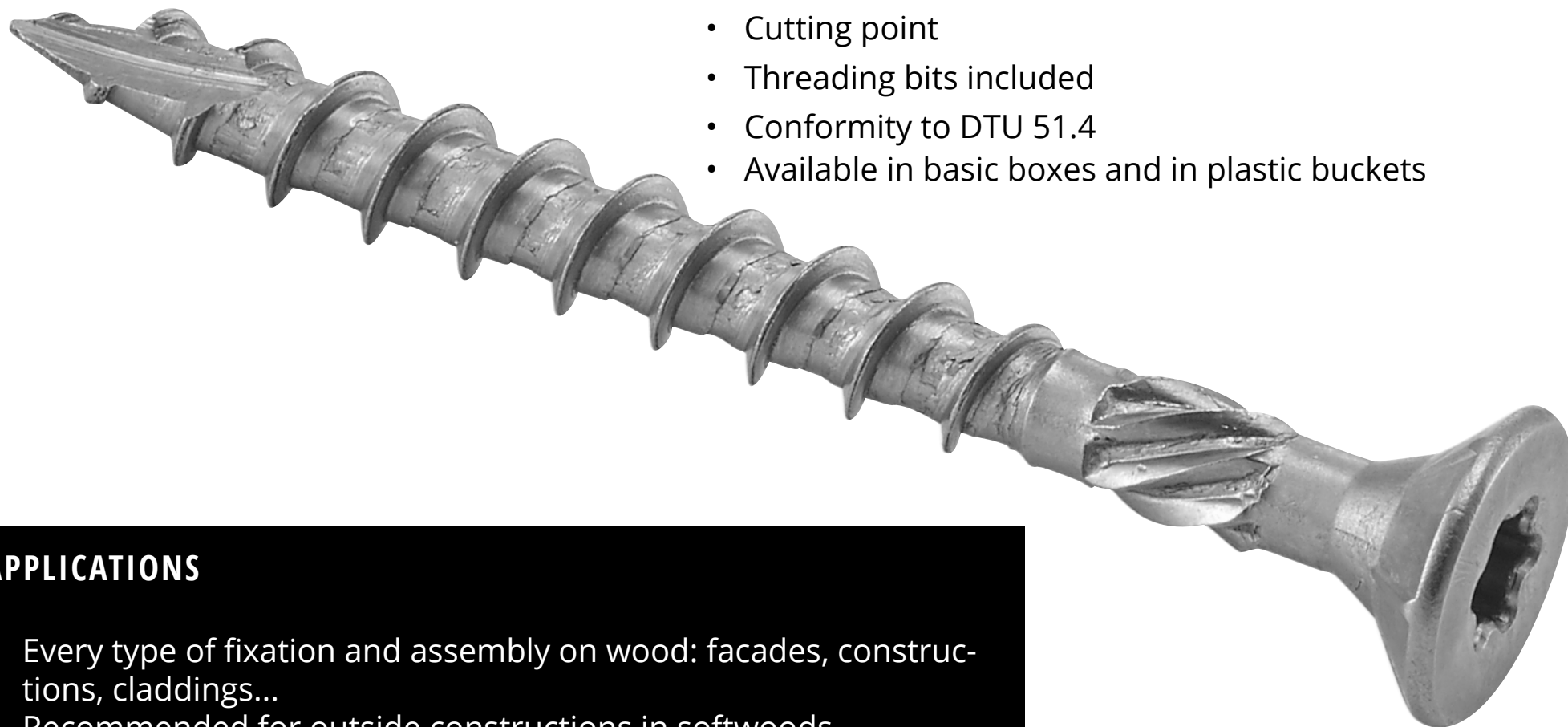
APPLICATIONS

- Hardwood patios: exotic and deciduous woods
- Outside wood constructions

FACADE SCREW - COUNTERSUNK HEAD PARTIAL THREADING - 6 LOBES IMPRINT

62328/64328

- Austenitic stainless steel A2 graded/A4 graded
- Lubricate coat WAX type
- Wide countersunk head with double cone (53° and 90° angle)
- Notching under the head
- Helical thread
- Cutting point
- Threading bits included
- Conformity to DTU 51.4
- Available in basic boxes and in plastic buckets



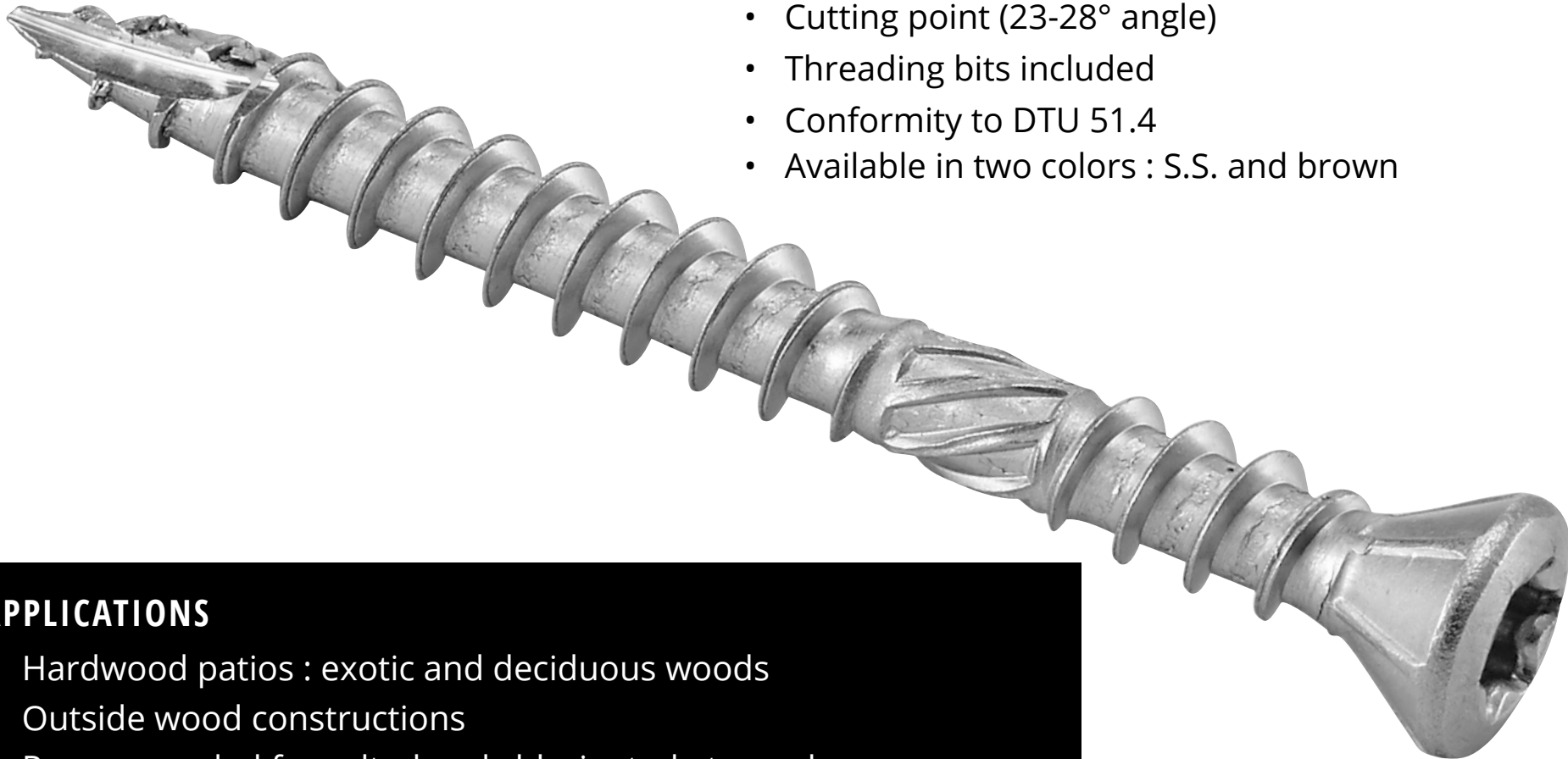
APPLICATIONS

- Every type of fixation and assembly on wood: facades, constructions, claddings...
- Recommended for outside constructions in softwoods

64324

DECKING SCREW - RAISED COUNTERSUNK HEAD DOUBLE THREADING - 6 LOBES IMPRINT

- Austenitic stainless steel **A4 graded**
- Lubricate coat WAX type
- Small raised countersunk head (angle 60°)
- Notching under the head
- Helical thread
- Cutting point (23-28° angle)
- Threading bits included
- Conformity to DTU 51.4
- Available in two colors : S.S. and brown



APPLICATIONS

- Hardwood patios : exotic and deciduous woods
- Outside wood constructions
- Recommended for salted and chlorinated atmospheres

62450

SELF-DRILLING BI-METAL SCREW - COUNTERSUNK HEAD 6 LOBES IMPRINT - POINT N°3

- Self-drilling head and body in stainless steel **A2 graded**
- Countersunk head (80° angle)
- Notching under the head
- Double winglets
- Drill point and introduction threadings in cemented steel: drilling of steel and aluminium
- Anti-corrosion coat (Silver Ruspert type)
- Maximum capacity of steel drilling: 4 to 5 mm (depending on the dimension)
- Resistance to the salted fog = 800 hours



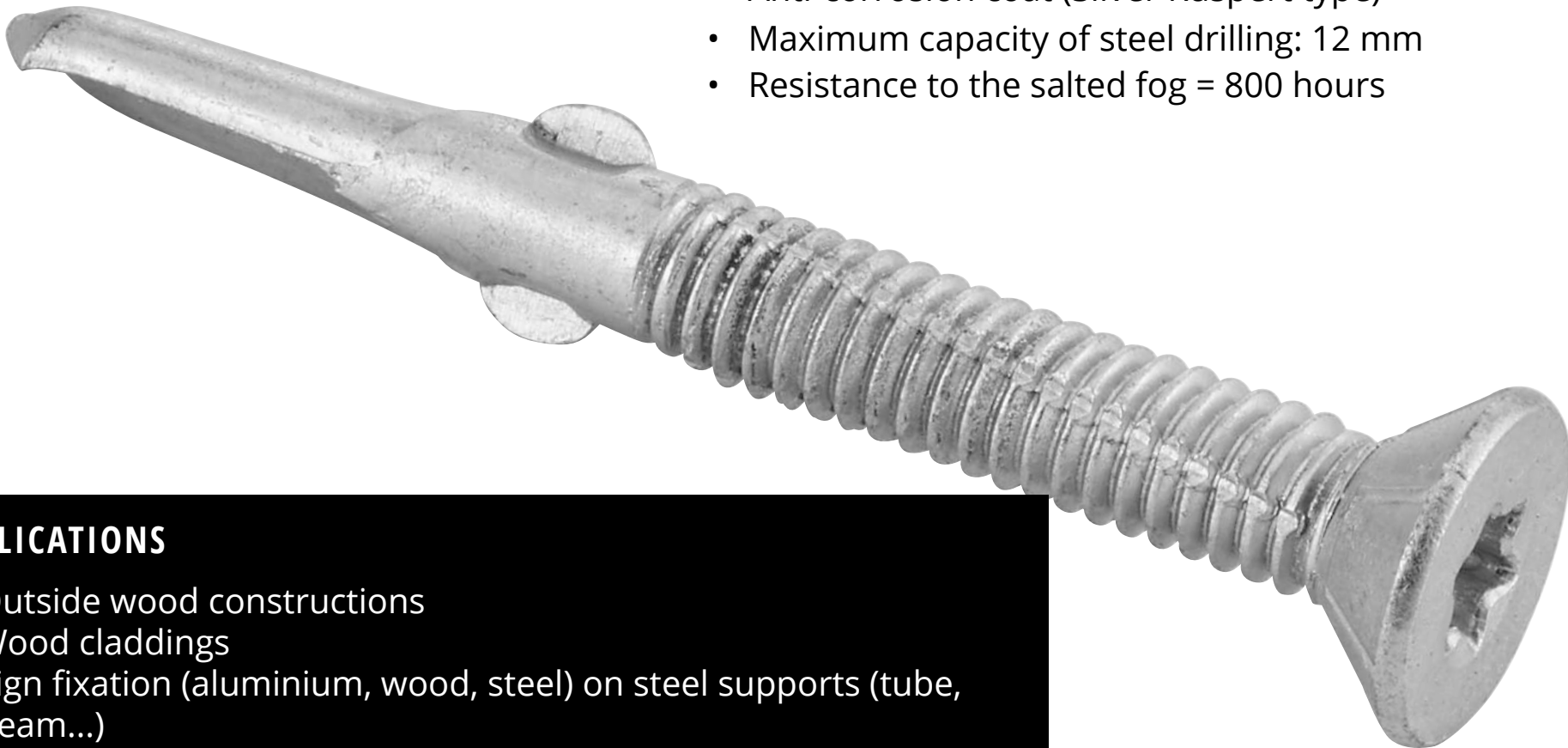
APPLICATIONS

- Outside wood constructions
- Wood claddings
- Sign fixation (aluminium, wood, steel) on steel supports (tube, beam...)

62451


SELF-DRILLING BI-METAL SCREW - COUNTERSUNK HEAD 6 LOBES IMPRINT - POINT N°5

- Self-drilling head and body in stainless steel **A2 graded**
- Countersunk head (80° angle)
- Notching under the head
- Double winglets
- Drill point and introduction threadings in cemented steel: drilling of steel and aluminium
- Anti-corrosion coat (Silver Ruspert type)
- Maximum capacity of steel drilling: 12 mm
- Resistance to the salted fog = 800 hours



APPLICATIONS

- Outside wood constructions
- Wood claddings
- Sign fixation (aluminium, wood, steel) on steel supports (tube, beam...)



Get in touch with the
Acton team for more
information

Technical informations, illustrations and pictures are given on a indicative basis and without contractual nature. Some can change in function of the applicable norms. The use, assembly and maintenance instructions are simple recommandations. They can also vary in function of the use conditions of the product, of the assembly environment and of the needs of the buyer who is the only responsible of their definition.