Specifications & Maintenance Manual

Escofet by Molins

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Concrete

Self Compacting Concrete

Concrete is a composite material consisting of water, aggregates, cement and specific additives. Its high fluidity enables it to flow and fill every part of the mold under its own weight. Due to its viscosity, it envelops the steel reinforcement, reaching all corners of the mold through gravity alone, facilitating the creation of intricate geometries with a consistent finish. Through the incorporation of diverse aggregates and colorants, a variety of colors can be achieved without the need to paint the finished piece.

Properties

Basic technical features of self-compacting concrete manufactured by Escofet:

Density		2350 Kg/m^3
Compression strength	UNE-EN 12390 / 2001	30-45 Mpa
Young's modulus		40 Gpa
Flexural strength	UNE-EN 12390 / 2001	4-5 Mpa
Frost resistance	UNE-EN 1339 / 2004	<0,1 Kg/m^2
Wear resistance by friction **Footprint's average width**	UNE-EN 1339 / 2004	<21,5 mm
Impact resistance **Height of breakage by a 1 kg steel ball**	UNE-EN 127748-1/2006	>200 cm
Minimum cement content		350 - 400 Kg/m^3

* Characteristics according to the Testing Standard: UNE-EN-13198:2003

* Technical properties depend on colour type, and differences may exist depending on each hue.

SCC Aggregate

SCC Concrete / Etched Grey / TWIG Bench

Recycled Concrete

Formulated by substituting 60% of the aggregate used with a recycled and valorized aggregate derived from nearby construction and demolition waste, recycled concrete offers a more sustainable product with a lower environmental impact. After undergoing a recycling process, this aggregate becomes a high-quality raw material suitable for use in precast concrete. Thanks to a more efficient production process, a natural colour and texture finish is achieved that highlights subtle differences.

Properties

Basic technical features of recycled concrete manufactured by Escofet:

Density		2350 Kg/m³
		2650 Kg/m³
Compression strength	UNE-EN 12390 / 2001	30-40 Mpa
		45-55 Mpa
Flexural strength	UNE-EN 12390 / 2001	4-5 Mpa
Frost resistance	UNE-EN 1339 / 2004	<0,1 Kg/m²
Wear resistance by friction	UNE-EN 1339 / 2004	<21,5 mm
Footprint's average width		
Impact resistance	UNE-EN 127748-1/2006	>200 cm
Height of breakage by a 1 kg steel ball		
Minimum cement content		350 - 400 Kg/m³

Recycled Aggregate

Recycled concrete / Eco-Grey® / PRAT table

Slimconcrete® UHPC

A type of concrete with high compressive, flexural, and impact strength; it includes a high content of cement, fluid/liquid consistency, inorganic fibres, and features aggregates with a maximum size of 3mm. The aggregates' micro-granulometry allows for the reproduction of micro-reliefs with great surface finish detail; its homogeneous colouring enables consistent hues throughout its mass, and its low porosity reduces the loss of surface aggregates during cleaning processes.

Properties

Basic technical features of Slimconcrete® UHPC concrete manufactured by Escofet:

Density		2350 Kg/m^3
Compression strength	UNE-EN 12390 / 2001	60-90 Mpa
Young's modulus		40 Gpa
Flexural strength	UNE-EN 12390 / 2001	10-12 Mpa
Frost resistance	UNE-EN 1339 / 2004	0 Kg/m^2
Wear resistance by friction **Footprint's average width**	UNE-EN 1339 / 2004	<18,3 mm
Impact resistance **Height of breakage by a 1 kg steel ball**	UNE-EN 127748-1/2006	>200 cm
Minimum cement content		700 - 800 Kg/m^3

* In-house testing: breakage height by 600g steel ball impact energy absorbed by the Slimconcrete® UHPC sample is 3 times higher than that of traditional self-compacting concrete.

* Technical properties depend on the coulor type, with differences possible depending on each hue.

Slimconcrete® UHPC / Etched Beige / JULES ET JIM Planter

Slimconcrete® UHPC / Etched Grey / MOM Bench

Comparative Table

	SCC Concrete	Recycled Concrete	Slimconcrete® UHPC
01. Compression strength UNE-EN 12390 / 2001	35-45 MPa	30-40 MPa	60-90 MPa
02. Flexural strength UNE-EN 12390 / 2001	4-5 MPa	4-5 MPa	10-12 MPa
03. Frost resistance UNE-EN 1339 / 2004 **With anti-freeze salts, UHPC experiences 0 kg/m2 loss of mass after 28 cycles of freeze-thaw.**	<0,1 kg / m2	<0,1 kg / m2	0 kg / m2
04. Wear resistance by friction UNE-EN 1339 / 2004 **Footprint's average width**	<21,5 mm	<21,5 mm	<18,3 mm
05. Impact resistance UNE-EN 127748-1/2006	>200 cm	>200 cm	>200 cm
Breakage height by 1 kg steel ball			
***In-house tests.* Breakage height by 600g steel ball. Energy absorbed by the UHPC sample upon impact is 3 times higher than that of traditional SCC.**	750 mm Ep = 4,5J (Nm)	750 mm Ep = 4,5J (Nm)	2250 mm Ep = 13,5J (Nm)
06. Minimum cement content	350-400 kg / m3	350-400 kg / m3	700-800 kg / m3

Steel Reinforcement

We analyse each element to determine whether it requires reinforcement, the material it should be made of, and its quantity (diameters, shapes, and number of rods). Depending on the element's design, thickness, geometry, and function, we differentiate between stainless steel, galvanized steel, or carbon steel reinforcement.

Types

Stainless steel	Reinforcement in corrugated stainless steel, AISI 304, adequately shaped to the structure of the piece, at a quantity of 50 Kg/m3 and at a minimum distance of 2.5 cm from the surface.
Galvanized steel	Reinforcement in galvanized steel B 500 S, adequately shaped to the structure of the piece, at a quantity of 50 Kg/m3 and at a minimum distance of 2.5 cm from the surface.
Carbon steel	Reinforcement in B 500 S steel, adequately shaped to the structure of the piece, at a quantity of 50 Kg/m3 and at a minimum distance of 2.5 cm from the surface.

Finishes, coulors and coatings

According to project needs and concrete type, we provide a coulor chart for mass colouring, various surface finishing processes, and protective coatings that enhance the product's character and uniqueness.

Finishes

Etched Finish

Process consisting of applying diluted hydrochloric acid to the surface of concrete to remove the superficial layer, revealing the natural appearance and color of the aggregates within. The result is a smooth surface with a sandy texture in different degrees of roughness. Through stripping, a stony surface is achieved that remains consistent throughout its lifespan.

Polished Finish

Through a process of leveling the piece, the surface is smoothed using diamond abrasives to make it smooth, shiny, and free of pores. This process is only applied to the smooth and superficial surfaces of the concrete element.

Cast Finish

The cast finish produces a surface with the natural colour and texture of concrete, without altering its smooth surface that incorporates small irregularities. Depending on the geometry of the moulded element, as well as the intended texture, this finish is both less expensive withou detracting from its material or structural quality.

Waterproo3ng

Surface treatment that prevents moisture from passing through, thus avoiding water leaks, while remaining breathable and allowing the evaporation of water from the interior. Once applied, it does not impart shine or color to the piece. It provides the treated concrete surface with an oleophobic and water-repellent effect that helps keep surfaces clean for longer and facilitates maintenance processes.

Impermeabilización	5HYHVWLPLHQWR LQWHULRU WUDQVSLUDEOH \ H GUHQDQWH TXH GHMD ODV SDUHGHV GHO KRUPL \ KXPHGDG GH ODV WLHUUDV (VWR SHUPLWH XQ GH ODV SLH]DV VRPHWLGDV D JUDQGHV YRO»PH KXPHGDG R H[SXHVWDV D HOHYDGDV WHPSHUDW H[WHULRU IDYRUHFLHQGR DGHP¢V OD VXSHUYLY SODQWDGDV \ IDFLOLWDQGR IXWXUDV WDUHHV G
Bush Hammered Finish	,W LV D URXJK QLVK ZLWK VPDOO FUDWHUV WKD UXVWLF DSSHDUDQFH ,W LV DSSOLHG E\ UHSHDW KDPPHU WKDW SXQFWXUHV DQG ZRUNV WKH VXUI DFKLHYHV WKH GHVLUHG WH[WXUH

Colours & Finishes Table

SCC Concrete

Etched

Grey | Black | White | Grey CA | Beige | Red

Polished

Grey | Black | White | Grey CA | Beige | Red | Light Grey

Recycled Concrete

Eco-Grey®

Grey

Slimconcrete® UHPC

Etched

Grey | Black | White | Beige

Soft Polished

Grey | Black | White | Beige

Visual Aspects

3URGXFWV PDGH RI FRQFUHWH GXH WR WKH QD
WKHLU FRPSRQHQWV PDQXIDFWXULQJ SURFHVV
LQVWDOODWLRQ DV ZHOO DV WKH QDWXUDO ZH
PD\ H[KLELW DHVWKHWLF YDULDWLRQV DQG XQ
SURFHVV RI QDWXUDO DJLQJ

Types

Colour uniformity

1DWXUDO RULJLQ RI DJJUHJDWHV DQG FRQFUHWH
FRORU XQLIRUPLW\ FDQQRW EH JXDUDQWHHG
)LQLVKHV PD\ SUHVHQW VOLJKW GLIIHUHQFHV LQ
OXPLQRVLW\

Surface appearance

0DQXIDFWXULQJ SURFHVV XVLQJ JUDYLW\ PROGL
LQ WKH DSSHDUDQFH RI SRUHV DQG DLU EXEEOH
JHRPHWULF FRPSOH[LW\

6SHFLILFDWLRQV 0DLQWHQDQFH

3DUWLQJ OLQH	8QDYRLGDEOH PRXOG MRLQWV DQG DW WKH YHU GLVFRQWLQXLWLHV LQ WKH HOHPHQWV
Resistance to weather conditions	&RQGLWLRQV RI KXPLGLW\ DQG WKHUPDO RU VXS JHQHUDWH RYHUORDGV RU WHQVLRQV QRW RUHV
Durability	1DWXUDO DJLQJ RI WKH PDWHULDO GLUW DQG Z HOHPHQWV

Colour recommendation for benches

,W LV UHFRPPHQGHG WR DYRLG XVLQJ ZKLWH FR
EHQFKHV LQ KLJK WUDI F DUHDV DQG FKLOGUHQ
D PRUH IUHTXHQW PDLQWHQDQFH DQG FOHDQLQJ
WHQG WR VKRZ GLUW PRUH YLVLEO\ ,Q FKLOGUH
EHQFKHV DUH SURQH WR VWDLQV IURP IRRG DQG
FRQVWDQW PDLQWHQDQFH WKH\ FDQ TXLFN\ DS
XQDWWUDFWLYH 0RUH IUHTXHQW UHDSSOLFDWL
WKH PDLQWHQDQFH SODQ ZLOO LPSURYH FO DQ
DSSHDUDQFH RI WKH HOHPHQWV RYHU WLPH KH
LQLWLDO ORRN RI WKH IXUQLWXUH

Colour recommendation for planters

,W LV UHFRPPHQGHG WR DYRLG XVLQJ EODFN RQ
PRGXODU EHQFKHV LQWHQGHG IRU JUHHQ LVDQG
&RQWDFW ZLWK PRLVWXUH DQG WKHUPDO FRQWU
DQG H[WHULRU FDQ FDXVH XQH[SHFWHG GHJUDGD
DV ZHOO DV H[FHVVLYH WHPSHUDWXUHV LQ WKH V
SODQWHUV ZKLFK ZLOO LQFUHDVH GU\LQJ DQG U
SODQW VSHFLHV

(VFRIHW LV QRW UHVSRQVLEOH IRU WKH LQVWDO
,W LV UHFRPPHQGHG WR IROORZ WKH SODFHPHQ
LQ WKH WHFKQLFDO GDWD VKHHWV DQ\ PRG FI
UHVSRQVLELOLW\ RI WKH FXVWRPHU

Types

$QFKRULQJ	$QFKRULQJ WR WKH JURXQG LV QHFHVVDU\ ZKHQ WHFKQLFDO VKHHW HYHQ LI WKH SLHFH LV VHOI LV QRW VROLG VDQG\ JUDYHO JUDVV HWF D PXVW EH PDGH DFFRUGLQJ WR WKH ZHLJKW RI W TXDOLW\ RI WKH WHUUDLQ ,W LV QRW (VFRIHWõ WKH IRXQGDWLRQV IRU DOO W\SHV RI VRLO FRQ
/HYHOLQJ	7KH FRQGLWLRQ RI WKH JURXQG FDQ DIIHFW WKH HVSHFLDOO\ LQ WKH FDVH RI PRGXODU RQHV WKD OHDYLQJ D JDS RI EHWZHHQ PP DQG PP EHWZH DQG UP VXUIDFH ZLWK SURSHU OHYHOLQJ DQG Q D JRRG W EHWZHHQ WKH PRGXOHV ,Q WKH FDVH VSDFHUV FDQ EH XVHG WR OHYHO WKH EHQFKHV D LQVWDOODWLRQ

$V D JHQHUDO UXOH FDVW FRQFUHWH SURGXFW
VSHFL F PDLQWHQDQFH WKURXJKRXW WKHLUFDL
VRPH FRQVLGHUDWLRQV PXVW EH UHVSHFWHG

Types

3DFNDJLQJ	,W LV UHFRPPHQGHG QRW WR NHHS WKH SLHHHV H[WHQGHG SHULRG RI WLPH H[FHHGLQJ GD\V I VKLSPHQW DV WKH SDFNDJLQJ PDWHULDOV SURW PD\ GHWHULRUDWH RYHU WLPH DQG DIIHFW WKH VXSSOLHG HOHPHQWV
&OHDQLQJ	5HJXODU FOHDQLQJ DQG SHULRGLF LQVSHFWLRQ ZLWK QRQ DONDOLQH DQG QRQ DEUDVLYH SURGX DOWHU LWV FRDWLQJV DQG QLVKHV DUH QHFHVV SURFHVV LQYROYHV XVLQJ KLJK SUHVVXUH ZDWH ZLWK D IUHTXHQF\ WKDW YDULHV DFFRUGLQJ WR SROOXWLRQ UDLQ WHPSHUDWXUHV HWF ,Q F UHFRPPHQGV SURFHHGLQJ ZLWK KRW ZDWHU SUH

:DWHUSURRyQJ	5HSOHQLVKPHQW RI WKH SURWHFWLYH K\GURSKR WR VWULSSHG RU SROLVKHG VXUIDFHV 7R UHDSS WUHDWPHQW WKH VXUIDFHV WR EH WUHDWHG PX VXUIDFHV DUH QRW FRPSOHWHO\ FOHDQ D QH J XVHG ZLWKRXW HURGLQJ WKH SLHFH IROORZHG UHVLGXH ZLWK D FORWK 1H[W WZR FRDWV RI K\ DUH DSSOLHG XVLQJ D IRDP SDOHWWH DOORZLQ FRDWV)RU HOHPHQWV XVLQJ FRORUHG K\GURSK GHVLULQJ WR HQKDQFH WKH FRORU D WKLUG FR
Repair	,Q FDVH RI UHSDLU QHHGV GXH WR LPSDFWV YDO EORZV VPDOO PDWHULDO ORVVHV RU FKLSSLQJV XVLQJ D ö5HSDLU .LW÷ ZLWK D VSHFL F IRUPXOD VSHFL F SURFHGXUH 7KH PL[WXUH LV GRVHG WR DQG WH[WXUH RI WKH FRQFUHWH 6WHSV WR IRO 1. 0RLVWHQ WKH DUHD WR EH UHSDLUHG ZLWK ZDV 2. &DUU\ RXW WKH UHSDLU OHDYLQJ LW VOLJKWO UHVW HQVXULQJ JRRG FRPSDFWLRQ 3. &RYHU WKH UHSDLU ZLWK D GDPS FORWK IRU XQLIRUP FXULQJ RI WKH SDVWH 4. $OORZ WR KRXUV WR SDVV EHIRUH SURFHHGI 5.)RU WKH DFLG ZDVK SURWHFW \RXU KDQGV ZLW ULQVH WKH UHSDLUHG DUHD DQG WKH SDYHPHQW ZLWK SOHQW\ RI ZDWHU 0L[K\GURFKORULF DFLG SDUW DFLG WR SDUWV ZDWHU

Metal

Metals

$OO SURGXFWV PDGH ZLWK DOOR\HG PDWHULDO
HQVXUH RSWLPDO FRUURVLRQ UHVLVWDQFH DQ
W\SHV RI ZHDWKHU :H ZRUN ZLWK D ZLGH UDQJ
QLVKHV VXFK DV DQRGL]HG DOXPLQXP $,6
KRW GLS JDOYDQL]HG VWHHO]LQF SODWHG VW

Types

S235 -JR Steel

+RW UROOHG QRQ DOOR\ VWUXFWXUDO VW
IDYRUDEOH FKDUDFWHULVWLFV VXFK DV S
DQG ZHOGDELOLW\ DORQJ ZLWK DGHTXDW
DELOLW\ WR EH EHQW ZKHQ FROG ,WV GH
DQG LW PHOWV DW D WHPSHUDWXUH EHWZ

S355 - J0W Corten Steel

&RUURVLRQ UHVLVWDQW FRPPRQ VWHHO
,WV XQLTXH FKHPLFDO FRPSRVLWLRQ VKLH
DWPRVSKHULF FRUURVLRQ ZLWKRXW FRPS
PHFKDQLFDO SURSHUWLHV VLJQL FDQWO\
GHYHORSV D ZDWHUSURRI R[LGH OP KDO
R[LGDWLRQ SHQHWUDWLRQ 7KH GXUDWLR
R[LGDWLRQ SURFHVV XFWXDWHV ZLWK FO
HQYLURQPHQWDO FRQGLWLRQV 7KLV W\SH
GHQVLW\ RI NJ Pu DQG D PHOWLQJ SRL

Escofet doesn't speed up the natural process of forming the protective layer. As such, the material can be received while still undergoing surface transformation process.

AISI 316 / 316L Stainless Steel

,URQ FDVWLQJV DUH DOOR\HG PDWHULDOV
EULWWOHQHVV DQG UHODWLYHO\ KLJK KDU
ZLWKVWDQG WKHUPDO VKRFN DQG FRURV
HIIHFWLYHO\ GDPSHQLQJ YLEUDWLRQV &D
FRPSUHVVLRQ UDWKHU WKDQ WHQVLRQ $
IDFLOLWDWH FKLS UHPRYDO PDNLQJ WKH
7KH GHQVLW\ RI WKLV VWHHO UDQJHV IUR
NJ Pu ZLWK D PHOWLQJ SRLQW RI r

GG20 Cast Steel

$,6, / VWDLQOHVV VWHHO LV D W\SH
FKDUDFWHUL]HG E\ LWV DXVWHQLWLF VWU
FKURPLXP QLFNHO DQG PRO\EGHQXP 7KH
PRO\EGHQXP HQKDQFHV LWV FRURVLRQ U
KLJK WHPSHUDWXUH VWUHQJWK ,W KDV D
Pu DQG D PHOWLQJ SRLQW UDQJLQJ IURP

6SHFLILFDWLRQV DQG PHOWLQJ

Rolled Aluminum Sheets	$OXPLQXP LV D QRQ PDJQHWLF PHWDO UH VLOYHU LQ FRORU DQG ZLGHO\ DYDLODEO FUXVW 1RWHZRUWK\ SURSHUWLHV RI DOX OLJKWZHLJKW QDWXUH GXFWLOLW\ RRZ F UHF\FODELOLW\ ,W KDV D GHQVLW\ RI DW r&
Extruded Aluminum	([WUXVLRQ LV D SURFHVV XVHG WR PRQXI ZLWK D VSHFL F DQG XQFKDQJLQJ FURVV \ 0DWHULDO LV SXVKHG RU SXOOHG WKURXJ LQ WKH GHVLUHG FURVV VHFWLRQ 7KH SU LQFOXGH WKH DELOLW\ WR SURGXFH LQWU VKDSHV DQG WKH H[FHOOHQW VXUIDFH QL SURGXFWV 7KH GHQVLW\ RI H[WUXGHG PD UDQJHV DUXQG NJ Pu
$OXPLQXP &DVWLQJ	$OXPLQXP FDVWLQJ DOOR\V DUH GHYORS VSHFL F FKDUDFWHULVWLFV VXFK DV FDVW DQG PROG OOLQJ DELOLW\ $GGLWLRQDOO LQFOXGLQJ VWUHQJWK WRXJKQHVV DQG UHVLVWDQFH DUH RSWLPL]HG IRU YDULRX 7KHVH DOOR\V W\SLFDOO\ KDYH D GHQVLW D PHOWLQJ SRLQW UDQJLQJ IURP WR

Finishes, colours, and coatings

Types

*DOYDQL]LQJ	'XULQJ WKH HOHFWURSODWLQJ SURFHVV WKH VW LQ WKH HOHFWURO\WLF FHOO 7KLV UHVXOWV LQ W\SLFDOO\ DQ)H =Q DOOR\ OD\HU RQ WKH VXUID SURFHVV DOVR GHSRVLWV D SXUH]LQF OD\H RQ UHVXOWLQJ DOOR\ RIIHUV VLJQL FDQWW FRUURVLR WR WKH VWHHO
+RW GLS JDOYDQL]LQJ	7KH SURFHVV LQ ZKLFK VWHHO LV LPPHUVHG LQ WR FRDW LW ZLWK D SURWHFWLYH OD\HU LV NQR 7KLV SURFHVV SURYLGHV H[FHOOHQW SURWHFWL]LQF DFWV DV D EDUULHU EHWZHHQ WKH EDVH PH HQYLURQPHQW ,W LV D ZLGHO\ XVHG PHWKRG WR R[LGDWLRQ DQG RWKHU W\SHV RI GDPDJH
$QRGL]LQJ	(OHFWURO\WLF SDVVLYDWLRQ LV D SURFHVV XVH WKLFNQHVV RI WKH QDWXUDO R[LGH OD\HU RQ W 7KLV WHFKQLTXH LV RIWHQ DSSOLHG WR DOXPLQ SURWHFWLYH OD\HU XVLQJ DOXPLQXP R[LGH NQ OD\HU LV IRUPHG WKURXJK HOHFWURFKHPLFDO P UHVLVWDQFH DQG GXUDELOLW\ RI WKH DOXPLQXP ODUJHO\ GHSHQGV RQ WKH WKLFNQHVV RI WKLV IURP îP WR îP GHSHQGLQJ RQ WKH LQWHQGH FRQGLWLRQV
3DLQWLQJ	2XU SDLQWLQJ SURFHVV LQYROYHV OLTXLG RDW SRO\XUHWKDQH 7KLV SURFHVV RIIHUV GXUDELOL SURYLGLQJ JUHDWHU ORQJHYLW\ IRU ERWK FRRR JRRG FKHPLFDO UHVLVWDQFH 89 UDGLDWLRQ UH UHVLVWDQFH VXUSDVVLQJ KRXUV RI VDOW VS SURWHFWLRQ OHYHOV & DQG & 0 DFFRUGLQJ WR LV DQ HODVWLF SDLQW WKDW DFFRPPRGDWH GH PDWHULDO ZLWKRXW GDPDJLQJ WKH SURWHFWLY DSSOLHG RYHU D]LQF ULFK SULPHU IRUPXOD WHG GXUDELOLW\ DQG QLVK UHTXLUHPHQWV VHW E\

Reseda Green / BAND

Reddish Orange/ MOOK

Galvanized steel support painted in oxide red color RAL 3009 / SISA

Colour and Finish Chart

Steel

Colours

Textured Silver Gray

Wrought Iron Black

Corten Effect

Reseda Green RAL 6011

Cobalt Blue RAL 5013

Luminous Green- RAL 6027

Wine Red RAL 3005

Reddish Orange RAL 2008

7 U D I F Yellow RAL 1023

White Aluminium RAL 9006

Standard color chart. Escofet can provide other RAL colors upon request.

Finishes

Inox

Galvanised

Corten

Aluminium

Anodisation

Grey

Column in white aluminum RAL 9006; Bench supports in textured silver gray / FUL & VILNIUS

Maintenance

Tipos

Zincado / Galvanizado	,W LV UHFRPPHQGHG WR FDUU\ RXW SHULRGLF LQ VL[PRQWKV WR DVVHVV DQ\ GDPDJH FDXVHG E\ Y FRQGLWLRQV RU PDQLSXODWLRQ RI WKH HOHPH EH UHPRYHG WKH DUHD ZLOO EH FOHDQHG DQG
Anodisation	,W LV UHFRPPHQGHG WR FRQGXFW SHULRGLF LQV VL[PRQWKV WR DVVHVV DQ\ GDPDJH FDXVHG E\ Y FRQGLWLRQV RU PDQLSXODWLRQ RI WKH HOHPH DIIHFWHG DQG VKRZV VLJQV RI UXVW DOXPLQD UHSODFH WKH HOHPHQW
3DLQWLQJ	3HULRGLF LQVSHFWLRQV LGHDOO\ FRQGXFWHG H UHFRPPHQGHG WR DVVHVV DQ\ GDPDJH FDXVHG E ZHDWKHU FRQGLWLRQV RU PDQLSXODWLRQ RI W DQ\ LQVWDQFHV RI FRDWLQJ GHWDFKPHQW LW L DIIHFWHG DUHD FOHDQ LW WKRURXJKO\ DSSO\ S DIIHFWHG SDUW =LQF ULFK SULPHUV ZLWK KLJK DGKHVLRQ DUH UHFRPPHQGHG DORQJ ZLWK HSR[VDPH 5$/ FRORU SURYLGHG

Aluminum casting rings painted wrought iron black / CARMEL 120

Escofet recommends periodic cleaning of its elements using non-alkaline and non-abrasive products to DYRLG DOWHULQJ WKHLU FRDWLQJV DQG QLVKHV

It is also advised not to keep the pieces packaged for extended periods, as the bags used to protect the elements over time may cause stains on them.

Fountains

$OO RI RXU IRXQWDLQV DUH VXSSOLHG WHVWHG
'XULQJ WKH UHFHSWLRQ DQG LQVWDOODWLRQ SU
HQVXUH WKDW WKH DLU LV SURSHUO\ GUDLQHG I
SHULRGLF PDLQWHQDQFH RI WKH GUDLQV LV QHF
IRUHLJQ REMHFWV

5HJXODU FOHDQLQJ RI ERWK WKH IRXQWDLQ QR]]
UHFRPPHQGHG ZLWK WKH IUHTXHQF\ GHSHQGLQJ
LQVWDOODWLRQ FRQGLWLRQV

Luminaires & Columns

(VFRIHW UHFRPPHQGV DYRLGLQJ WKH XVH RI DON
LWV FROXPQV DQG OXPLQDLUHV 3HULRGLF LQVS
LV DGYLVHG HLWKHU VHPL DQQXDOO\ RU DQQXD
LQVWDOODWLRQ DUHD ,I WKHUH DUH DQ\ GHIHFW
ZLOO EH UHSDLUHG DFFRUGLQJ WR 81(VWDQ
UHVSRQVLEOH IRU WKHLU RZQHUVKLS RU PDLQWH

:KHQ UHFHLYLQJ OXPLQDLUHV ZLWK PDQDJHPHQW
FDUH VKRXOG EH WDNHQ GXULQJ WKH FRQQHFWL
WKH OLQH LQSXWV DQG PDQDJHPHQW V\VWHP LQS
5HJXODU LQVSHFWLRQ RI DOO OXPLQDLUH FRPSR
IRU SURSHU IXQFWLRQLQJ FOHDQLQJ H[WHUQDO
GLVVLSDWLRQ FRQYHFWLRQ RU WKHLU FRUUHFW

Stainless steel fountain / PLAY Galvanized Luminaire / CREAM M

Wood

Wood

:H UHFRJQL]H WKDW HYHU\ HQYLURQPHQW LV XQ
GLYHUVH VHOHFWLRQ RI ZRRGV :H DUH FRQWL
LQQRYDWLQJ WR DFKLHYH WKH EHVW TXDOLW\ I
RIIHULQJ WHFKQRORJLFDO QLVKHV WKDW DG

6SHFLDOWLHV &RQWHQW &RQWHQW

Types

Softwood

&RQLIHUV DOVR NQRZQ DV VRIWZRRGV KDYH D V
VWUXFWXUH GLVWLQFW DQQXDO ULQJV DQG D U
7KH\ DUH JHQHUDOO\ HDV\ WR LPSUHJQDWH DQG
RLOV DQG WDQQLQV (VFRIHW ZRUNV ZLWK KLJK
ZLWK D GHQVLW\ UDQJLQJ IURP WR NJ Pu 2
YROXPHWULF VKULQNDJH RI XS WR DQG D PD
FRQWHQW RI

Nordid Pine

Nordic Fir

Tropical Wood

7URSLFDO ZRRG SURYLGHV VHYHUDO EHQH WV LV
RIIHULQJ H[FHOOHQW SURWHFWLRQ IRU RXWGRRU
OHDGLQJ WR UHVLVWDQFH WR DEUDVLRQ ,WGRH
RXWGRRU DSSOLFDWLRQV (VFRIHW ZRUNV ZLWK
ZRRGV ZLWK D GHQVLW\ UDQJLQJ IURP NJ Pu
2XU ZRRGV KDYH D YROXPHWULF VKULQNDJH RI X
PD[LPXP PRLVWXUH FRQWHQW RI

Cumaru

Iroko

Louro Gamela

Teak

$OO ZRRGV VROG E\ (VFRIHW LQ LWV FDWDORJ DKFDYH &KQLQW RI)&&VDQR
standards.

Escofet only works with top-grade woods.
Escofet reserves the wood species used based on stocks and market needs.

Tropical wood slats / LONGO Bench

Finishes and Coatings

Types

Varnishes

7KH 3URWHFWLYH :RRG 6WDLQ RIIHUV G\HFRUDWLY
SHQHWUDWLQJ LWV SRUHV LQVWHDG RI IRUPLQJ
7KLV DOORZV WKH ZRRG WR EUHDWKH DQG SUHYH
LW UHJXODWHV PRLVWXUH DQG SURWHFWV DDLQ
UD\V ,WV FRPSRVLWLRQ RI H[LEOH UHVLQV DGD
PDNLQJ LW LGHDO IRU RXWGRRU XVH DQG DWHDV
VKRUWHQV PDLQWHQDQFH F\FOHV ,WV QDWXUDO
JUDLQ DQG GHWDLOV

Tropical Glossy Stain / EQUAL

Pine Matte Clear Stain / SISA

Natural Oils

7KH\ RIIHU SURWHFWLRQ IRU DOO W\SHV RI ZRRG
DQG H[RWLF ZRRGV ,WV QDWXUDO FRPSRQHQWV
WKH ZRRG H[WHQGLQJ LWV GXUDELOLW\ ,GHDO
SURWHFW DJDLQVW KDUPIXO 89 UD\V DOWKRXJK
D JUD\LVK WRQH 7KHLU RULJLQDO FRORU FDQ EH
UHDSSO\LQJ WKH RLO $GGLWLRQDOO\ LWV XVH
DJDLQVW LQVHFWV

Tropical wood with Oil / ALPINE

Tropical wood with Oil / UNIVERSE UP

Types

Autoclave

7KH DXWRFODYH WUHDWPHQW LV D ZRRG SUHVHU
VWHULOL]HV DQG HOLPLQDWHV PLFURRUJDQLVPV
H[WHQG WKH ZRRGõV OLIHVSDQ 7KLV WUHDWPHQ
VWHSV)LUVWO\ D YDFXXP LV FUHDWHG WR UHP
WKH ZRRG 7KHQ WKH WUHDWPHQW LV DSSOLHG
SHQHWUDWH WKH ZRRG FHOOV)LQDOO\ WKH ZR
D YDFXXP DJDLQ HQKDQFLQJ LWV QLVK 7KLV S
WKH ZRRG IURP ZRRG ERULQJ LQVHFWV DQG IXQ
UHVLVWDQW DQG LQFUHDVLQJ LWV GLPHQVLRQD
WUHDWPHQW WKH ZRRG UHWDLQV DOO LWV RUL
DSSHDUDQFH

Autoclave Nordic Pine / TRAMET Autoclave Nordic Fir / ZUERA

Natural

7HDN ZRRG LV NQRZQ IRU LWV H[FHSWLRQDO TXD
RXWGRRU DSSOLFDWLRQV SDUWLFXODUO\ GXH W
JRRG GLPHQVLRQDO VWDELOLW\ 7HDN FRQWDLQ
SURWHFWV LW IURP DWWDFNV E\ WHUPLWHV DQG
VWDELOLW\ WHDN LV KLJKO\ UHVLVWDQW WR ZD
WKDQNV WR LWV QDWXUDO RLOV ZKLFK PDNH LW

Teak Wood / SERP Teak Wood / BOX

Visual Aspects

:RRG WKDWõV OHIW RXWGRRUV WHQGV WR DJH H[SRVXUH WR HQYLURQPHQWDO HOHPHQWV WXF ZLQG DQG WHPSHUDWXUH FKDQJHV 7KLV DJH GLVFRORUDWLRQ ORVV RI VKLQH DQG WKH GH VVXUHV RQ WKH ZRRGõV VXUIDFH RYHU WLPH ZRRG LV D QRUPDO SURFHVV WKDW FDQ FRQWU DQG EHDXW\ RI RXWGRRU XUEDQ HOHPHQWV

Types

Colour Uniformity

7KH QDWXUDO RULJLQ RI ZRRG FDQQRW JXDUDQW XQLIRUPLW\
6ODWV PD\ SUHVHQW VOLJKW GLIIHUHQFHV LQ FR EULJKWQHVV

Pine Wood / TRAMET

Wear and Tear

:RRG FDQ XQGHUJR JUDGXDO GHWHULRUDWLRQ RI IUHTXHQW FRQWDFW ,QWHQVLYH XVH DQG IU VFUDWFKHV PDUNV DQG ORVV RI VKLQH RQ WKH DUHD

Tropical Wood / MOOK

6SHFLHV DWWRQ ODLQWHQDQFH

Surface Appearance

7KH QDWXUDO DJLQJ RI ZRRG LV LQ XHQFHG E\ F
DFFXPXODWLRQ DQG ZHDU FDXVHG E\ XVH 2YHU
WDNHV RQ D WRDVWHG KXH ZKLOH WURSLFDO ZR
JUD\LVK 7KLV FRORU FKDQJH SURFHVV LV SUW
FKDUDFWHU RI RXWGRRU ZRRG DQG FDQ EH DFFH
H[SRVXUH WR HQYLURQPHQWDO HOHPHQWV

Teak Wood / MARINA

Pine Wood / ALPINE

Tropical Wood / KIWI

Maintenance

Types

Autoclave / Natural

5HTXLUHV PLQLPDO PDLQWHQDQFH PDLQO
SHULRGLF LQVSHFWLRQ RI DQ\ FUDFN WK
GXH WR ZHDWKHU FRQGLWLRQV DQG 89 H[
LQVWDOOHG :RRG UHVWRULQJ DQG UHMXY
FDQ EH DSSOLHG DV QHHGHG

Varnishes / Oils

:H UHFRPPHQG FRQGXFWLQJ DQ LQVSHFWL
PRQWKV DQG DSSO\LQJ WKH DSSURSULDV
LI QHFHVVDU\ EDVHG RQ WKH VXSSOLHG F
0DLQWHQDQFH PD\ QHHG WR EH DFFHOHUD
GHSHQGLQJ RQ WKH JHRJUDSKLF ORFDWLR
RU ORFDO FOLPDWH FRQGLWLRQV RI WKH
:RRG UHVWRULQJ RU UHMXYHQDWLQJ SURG
DSSOLHG EHIRUH WKH UHOHYDQW SURWHF

Sanding Process Finishing Process Oil Application

6SHFLILFDWLRQV 0DLQWHQDQFH

Period	Non-autoclaved Woods		Autoclaved Woods	
	Mild Climate	Severe Climate	Mild Climate	Severe Climate
6 months	0DWHULDO 5HYLVLRQ &UDFN ,QVS			
12 months	0DWHULDO 5HYLVLRQ		0DWHULDO 5HYLVLRQ &UDFN ,QVSH 0DLQWHQDQFH	
18 months	0DWHULDO 5HYLVLRQ 0DLQWHQDQFH	5HSDLU DQG 0DLQWHQDQFH	5HSDLU DQG &UDFN ,QVSHFWLRQ 0DLQWHQDQFH	
24 months	5HSDLU DQG 0DLQWHQDQFH	0DWHULDO 5HYLVLRQ	&UDFN ,QVSHFWLRQ 5 0DLQWHQDQFH	
Crack Inspection	Sanding or applying the restorer will be enough, as the protective layer will be applied based on the guidelines set by maintenance companies or municipal protocols.			
Repair and Maintenance	Disassemble the slats from the bench and completely remove the protective layer using sandpaper. Then, apply a new protective layer. Escofet 1886 recommends that the new protective layer be the same type of product previously used on the wood. Varnishes, whether synthetic or water-based, are the traditional solution for protecting wood. When DSSOLHG WKH\ FUHDWH D OP RYHU WKH EHUV WKDW VHDOV dust, or moisture from penetrating.			

&RQVLGHU WKLV SURFHGXUH DV D JXLGH IRU EHVW SUDFWLFHV 7KH QD maintenance lies with the customer or the person delegated with it. Severe climates or vandalism may affect what is mentioned in the table.

Escofet recommends periodic cleaning of its elements with NON-alkaline and non-abrasive products that PD\ DOWHU WKHLU FRDWLQJV DQG QLVKHV

It is recommended not to have the pieces packaged for a long period of time as the bags protecting the element over time may cause stains on it.

Polymers

Polymers

:H ZRUN ZLWK PDWHULDOV SURGXFHG DUWL FLD
WKURXJK FKHPLFDO RU LQGXVWULDO SURFHVVH
KLJK SHUFHQWDJH RI UHF\FOHG PDWHULDO VXF
URWDWLRQDO PROGLQJ DQG EHUJODVV UHLQIR

Types

5RWDWLRQDO 0RXOGLQJ

5RWDWLRQDO PROGLQJ RU URWRPROGLQJ LV WKH
SODVWLF XVHG WR SURGXFH KROORZ SDUWV ,Q
SRO\HWK\OHQH LV SRXUHG LQWR D PRXOG ZKLF
ELD[LDO D[HV ZKLOH EHLQJ KHDWHG 2XU SURGX
UHF\FOHG SODVWLFV DOORZLQJ IRU YDULDWLRQ

RBN	RAO	RNP	RVA	RVL	RAC
White	Colza Yellow	Orange	Lime Green	Shiny Blue	Steel Blue
RAL 3005	RAL 1021	RAL 2004	RAL 6018	RAL 5007	RAL 5011

We manufacture 100% recycled black color and can explore other colors with recycled materials upon explicit request.

Post-Consumer 0%
(black color is 100%)
Pre-Consumer 100%
(all colors)

RNG
Recycled Black
RAL 9017

)LEUHJODVV 5HLQIRUFHG 3ODVWLF (FRP)

)LEUHJODVV 5HLQIRUFHG 3ODVWLF)53 LV D KLJ
GXUDEOH FRPSRVLWH PDWHULDO ,W FRQVLVWV R
UHLQIRUFHG ZLWK EHUJODVV 7KLV UHLQIRUFHP
D XQLTXH FRPELQDWLRQ RI SURSHUWLHV LQFOX
VWUHQJWK ULJLGLW\ GXUDELOLW\ DQG FRUURV

)53 LV UHQRZQHG IRU LWV H[FHOOHQW ZHDWKHU
UHVLVWDQFH DQG FRUURVLRQ UHVLVWDQFH PDN
IRU DSSOLFDWLRQV LQ DJJUHVVLYH HQYLURQPHQ
ZHDWKHU FRQGLWLRQV

FRP
RAL 7047

6SHFLDOWLRQV 0DLQWHQDQFH

Visual Aspects

3RO\HWK\OHQH LV LGHDO IRU RXWGRRU XVH LW
WR LWV GXUDELOLW\ ZHDWKHU UHVLVWDQFH D

Types

Material Uniformity

'DUN FRORXUV PD\ VXIIHU IURP GHIRUPDWLRQ XQ
WHPSHUDWXUHV DQG LQWHQVLYH XVH GXH WR W
QDWXUH RI SRO\HWK\OHQH ZKLFK PDNHV LW VX\
GHIRUPDWLRQ DQG PHFKDQLFDO IDWLJXH 6LPLO
VKRZLQJ VFUDWFKHV DQG ZHDU

Black Colour / SIT Air

Wear & Tear

2YHU WLPH LW PD\ H[SHULHQFH VOLJKW GLVFRO
GXH WR SURORQJHG H[SRVXUH WR 89 UD\V DQG L
VHDWLQJ DUHD

6SHFL ±FDWLRQV 0DLQWHQDQFH