

# SYSTEM 30 LIGHT WEIGHT STRUCTURES

– for a wide range of applications

System 30 (S30) is a self-assembly system for building frameworks and lightweight structures.

S30 comprises composite tubes with an outside diameter of 30 mm and a wide range of connectors. The versatile S30 provides tools for developing new applications or for updating existing ones at home or commercially. The non-corroding structures can be utilized indoors and outdoors, e.g. for garages and boat covers, supermarket kiosks and promotion stands.

## Composite tubes

S30 tubes are manufactured from glass-reinforced composite material. The excellent characteristics of S30 tube are optimised by applying a non-woven outer layer (called Exelens). This enables the tube to withstand impact, UV-light and abrasion through heavy use. The Exelens surface finish is pleasant to touch and the tube feels warm in all conditions.

## Connectors

The 2 or 3-tube connectors enable you to build a wide variety of structures. The connectors are made of injection-moulded plastic which is free from corrosion. Depending on the connector and the loads it is supposed to carry, the material in the joints is reinforced Polyamide or Polypropylene.



## List of Connectors

| ICON  | NAME  | MATERIAL                  | CODE                 |
|---|---|---------------------------|----------------------|
|    | <b>Pivot "A"</b><br>Including: Sleeve A, Sheath A/B, M6 Screw and wing nut                        |                           | 40002261             |
|    | <b>Sleeve "A"</b><br>Can be also used as a plate bracket  | PP                        | 40003989             |
|    | <b>Sheath "A/B"</b>   | PP                        | 40003432             |
|    | <b>Double pivot "B"</b><br>Including: 2xSheath A/B, Double sleeve B, 2xM6 Screws, 2xWing nut      |                           | 40002262             |
|    | <b>Sleeve "B"</b><br>PLEASE NOTE: in this picture there are 2 pcs of this part!                   | PP                        | 40003990             |
|    | <b>Symmetrical 120/90 "C"</b><br>e.g. roof top  | PA66+GF30<br>Grivory+GF50 | 40010772<br>40010755 |
|    | <b>Top end 120/90 "D"</b><br>e.g. roof end  | PA66+GF30<br>Grivory+GF50 | 40010774<br>40010756 |
|    | <b>Corner 90/90 "E"</b><br>e.g. corner of a cube  | PA66+GF30<br>Grivory+GF50 | 40010762<br>40011119 |
|   | <b>Angle 90 "F"</b><br>any straight angle corner  | PA66+GF30<br>Grivory+GF50 | 40010773<br>40010757 |
|  | <b>T-Joint 90/90 "G"</b><br>e.g. T-joint with reinforcement                                       | PA66+GF30<br>Grivory+GF50 | 40010771<br>40010753 |
|  | <b>Foot "H"</b><br>e.g. attachment to even surface or to underlaying framework                    | PP                        | 40003433             |
|  | <b>Rocking Foot "M"</b><br>e.g. foot for angled attachment to ground (0 to 45 degrees)            | PP                        | 40010778             |
|  | <b>Foot with spike "H"</b><br>e.g. attachment to soft soil  | PP                        | 40003434             |
|  | <b>Straight thru 180/90 "I"</b><br>e.g. wall support  | PA66+GF30<br>Grivory+GF50 | 40010763<br>40011120 |
|  | <b>Straight 90 "J"</b><br>e.g. t-joint for light loads  | PA66+GF30<br>Grivory+GF50 | 40010761<br>40011121 |
|  | <b>Straight connector "K"</b><br>e.g. robust continuation; shorter tube lengths possible          | PA66+GF30<br>Grivory+GF50 | 40010764<br>40010754 |
|  | <b>Horizontal corner "L"</b><br>e.g. center support for a cube                                    | PA66+GF30<br>Grivory+GF50 | 40010765<br>40011122 |
|  | <b>Hoop joint</b><br>allows arches and domed roof sections with the 6,5*15,9 mm profile           | PA66+GF30                 | 40011712             |
|  | <b>End plugs: short long</b><br>support and close the tube end                                    | PP<br>PP                  | 40010743<br>40010744 |
|  | <b>Straight / Angle 45 "N"</b><br>"T-joint" with 45 degrees angle e.q. roof overlap, lattice mast | PA66+GF30<br>Grivory+GF50 | 40010781             |

## Telescopic solutions for S30

Exel has a range of telescopic poles which can be utilized with the S30.

- Exel XTEL System™
- Exel Universal Telescopic pole™
- Exel Extender™ Trioval

For more information on the telescopic solutions, please feel free to contact us.

## Colours

S30 glass-reinforced tubes (standard size 30/26 mm) are available in:

White

Blue

Green

Yellow

Grey

Red

Black

*Other colours in the RAL colour coding system are available to special order.*

## Applications

Industrial; various applications where corrosion resistance, chemical resistance and electrical insulating properties are utilized

• Commercial; market display stalls, shop display units and decorations, exhibition stands, product display units, barriers

• Household; garages, store rooms, shelving, fencing, boat covers, tents and marquees

• Garden; greenhouses, fruit and flower protectors, benches