

SIKA CarboDur COMPOSITE STRENGTHENING SYSTEMS



SUMMARY OF PROPERTIES

Mainly Flexural Strengthening Products (Plates)

Product name	Elastic modulus E_f (kN/mm ²)	Ultimate tensile strain ϵ_{fu} (-)	Width b_f (mm)	Thickness t_f (mm)
Carbodur S512	165	0.0170	50	1.2
Carbodur S612	165	0.0170	60	1.2
Carbodur S812	165	0.0170	80	1.2
Carbodur S1012	165	0.0170	100	1.2
Carbodur S1212	165	0.0170	120	1.2
Carbodur S1512	165	0.0170	150	1.2
Carbodur S614	165	0.0170	60	1.4
Carbodur S914	165	0.0170	90	1.4
Carbodur S1014*	165	0.0170	100	1.4
Carbodur S1214	165	0.0170	120	1.4
Carbodur M514	210	0.0135	50	1.4
Carbodur M614	210	0.0135	60	1.4
Carbodur M914	210	0.0135	90	1.4
Carbodur M1014*	210	0.0135	100	1.4
Carbodur M1214	210	0.0135	120	1.4
Carbodur H514	300	0.0045	50	1.4

* No product off the shelf. Please ask for time of delivery.

Mainly Shear Strengthening Products (L-shaped Strips)

Product name	Elastic modulus E_f (kN/mm ²)	Ultimate tensile strain ϵ_{fu} (-)	Width b_f (mm)	Thickness t_f (mm)
Carboshear 4/20/50	120	0.019	40	1.4
Carboshear 4/30/70	120	0.019	40	1.4
Carboshear 4/50/100	120	0.019	40	1.4

Mainly Shear Strengthening or Confinement Products (Flexible Sheets)

Product name	Elastic modulus E_f (kN/mm ²)	Ultimate tensile strain ϵ_{fu} (-)	Width (mm)	Thickness (mm)
SikaWrap Hex-103C	231	0.015	600	0.34
SikaWrap Hex-160C 0/90	230	0.015	600	0.045**
SikaWrap Hex-230C	231	0.017	300/600	0.12
SikaWrap Hex-430G	70	0.031	300/600	0.17
SikaWrap Hex-100G	72.4	0.037	600	0.36

** Per fiber direction.