

Because
Safety & Aesthetic
are **CRITICAL**

The right design is essential.



Triangular SideLock System.

COLORSTEEL
DECK

The Flat-Deck Technology

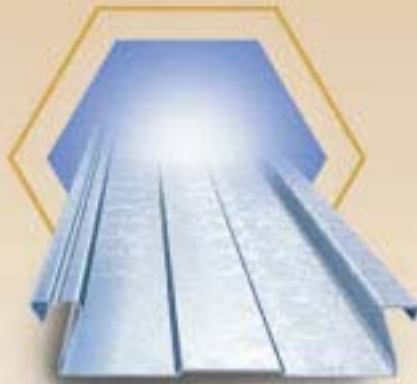
Superior Concrete to Panel Bonding.

Elegant T&G-like ceiling finish.



COLORSTEEL
THE STEEL INSTITUTION.
www.colorsteel.com.ph

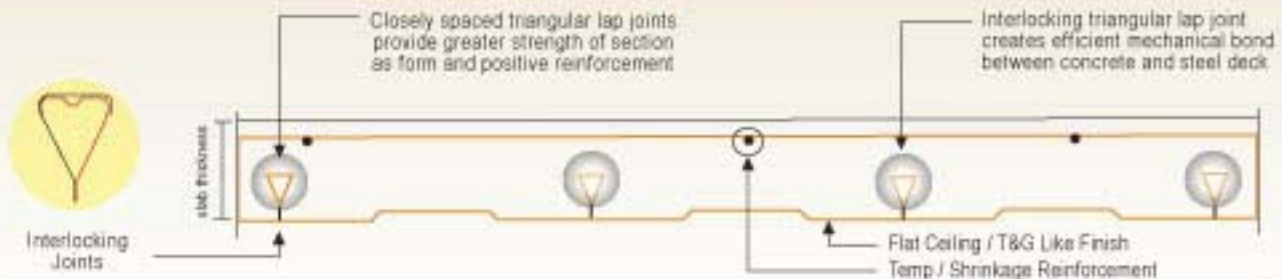
COLORSTEEL DECK



COLORSTEEL DECK Cross Section



COLORSTEEL DECK Composite Slab Section



COLORSTEEL DECK Section Properties per Meter Width

Base Metal Thickness MM	Mass per unit Area KG/M ²	Cross Sectional Area as MM ²	Centroid for Fully Effective Section		Positive Bending Moment			Negative Bending Moment			Exterior Web Crippling Capacity 50mm Bearing Rb EXT KN	Interior Web Crippling Capacity 50mm Bearing Rb INT KN	Nominal Deck Shear Strength Vh KN
			Yb MM	Yt MM	I _p x 10 ⁴ MM ⁴	Z _{pc} x 10 ³ MM ³	Z _{pt} x 10 ³ MM ³	I _n x 10 ⁴ MM ⁴	Z _{nc} x 10 ³ MM ³	Z _{nt} x 10 ³ MM ³			
0.80	11.08	1412	16.31	35.69	0.522	14.617	31.985	0.345	13.866	12.697	3.60	16.83	34.56
0.90	12.47	1588	16.31	35.69	0.587	16.444	35.983	0.388	15.801	14.284	5.62	20.30	38.88
1.00	13.85	1765	16.31	35.69	0.652	18.271	39.981	0.431	17.335	15.871	6.96	24.00	45.44
1.20	16.62	2118	16.31	35.69	0.783	21.925	47.977	0.517	20.802	19.045	10.16	32.12	51.81
1.40	19.39	2470	16.31	35.69	0.913	25.579	55.974	0.603	24.268	22.220	30.64	41.17	63.60

BASE METAL

TYPE: Cold Rolled Steel
THICKNESS: 0.80mm, 0.90mm, 1.0mm, 1.20mm
REFERENCE: PNS127-1998 Specification for Cold Rolled Carbon Steel Sheet and Strip

TECHNICAL PROPERTIES

STEEL GRADE: ASTM A611 Grade C, D or E (F_y = 33, 40, 80 ksi)
ASTMA653 Grade 33, 40, 50, or 80 (F_y = 33, 40, 80 ksi)

The yield strength F_y of steels conforming to ASTM 63 Grade 80 and A611 Grade E should be limited to 75% of the specified yield point or 60 ksi (414 Mpa) whichever is less. (AISI A3.3.2)

SECTION PROPERTIES

Section properties have been calculated in accordance with: American Iron and Steel Institute's Specification for the Design of Cold-Formed Steel Structural Members, 1996 Edition of Steel Deck Institute Composite Design Handbook.

PROFILE DIMENSION

EFFECTIVE WIDTH: 250 mm
RIB HEIGHT: 52 mm
LENGTH: Cut-to-size

Member
PISI
PHILIPPINE IRON & STEEL INSTITUTE



COLORSTEEL
THE STEEL INSTITUTION
www.colorsteel.com.ph

NCR: 3/F Belson House Bldg, 271 EDSA corner Connecticut, Greenhills, Mandaluyong City Tel Nos: 726-8303 / 726-2598 / 726-1673 Fax No: 726-2551 E-mail: colorsteel@netasia.net **BATANGAS:** G/F Rivera Bldg, B. Morada Ave., Lipa City Tel No: (043) 757-2857 Telefax: (043) 757-2848 **BULACAN:** Km. 42 McArthur Highway, Bulihan, Malolos City Telefax: (044) 794-0047 **CABANATUAN:** Borja Bldg., Diversion Rd. Maharlika Highway, Cabanatuan City Telefax: (044) 464-1557 **PAMPANGA:** McArthur Highway, Queblawan, City of San Fernando Tel Nos: (045) 963-3347 / (045) 861-0630 Telefax: (045) 963-3346 E-mail: colorsteel1994@hotmail.com **TARLAC:** G/F, Unit 4, Felsenron Bldg, Mc Arthur Highway San Roque, Tarlac City Telefax (045) 611-2080 **PANGASINAN:** FAMA Bldg., Caranglaan District, D-agupan City Tel. No: (075) 515-4442 Telefax: (075) 522-1336 **LA UNION:** G/F Rivera Bldg., Catbangan, San Fernando City Tel No: (072) 242-7574 Telefax: (072) 700-3132 **ISABELA:** City Road, Kalaw West, Santiago City Telefax: (078) 682-4500 **Plant Address:** Bgy. Del Rosario, City of San Fernando, Pampanga