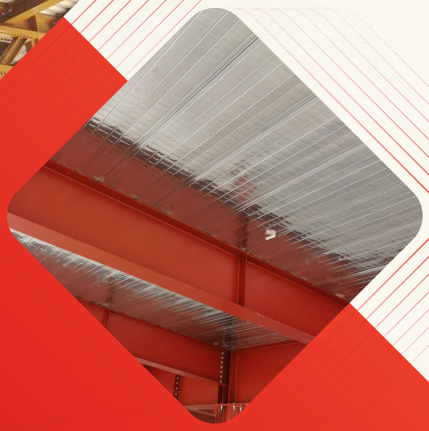
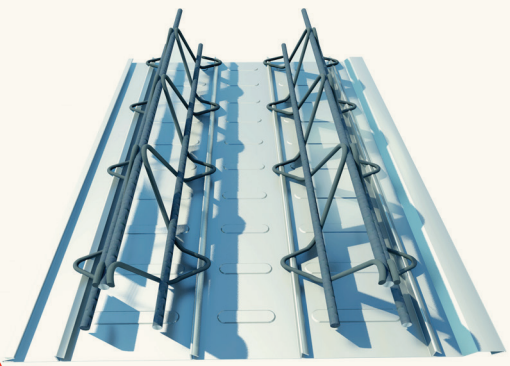
SP deck

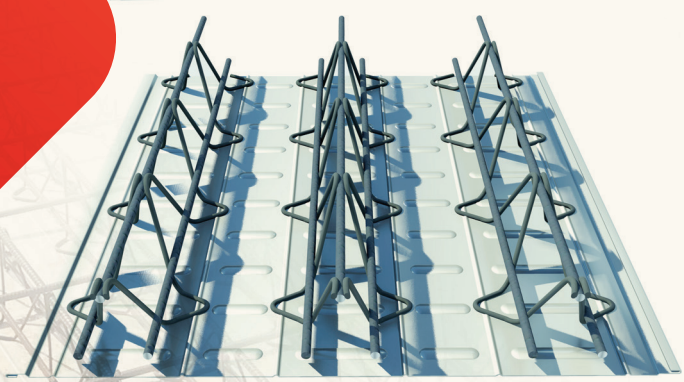
RAISING THE STANDARD OF VIETNAMESE CONSTRUCTION



WHY CHOOSE SP DECK?

- MORE ECONOMICAL
- FASTER
- MORE AESTHETIC





History of establishment
연혁

2020
Established Southern Representative Office
(남부지방에 사무소 설립)

2019
Obtained SP Deck Standard Conformance Certificate
(SP Deck 적합 인증서 획득)

2003
Established SEICO Group
(SEICO GROUP 설립)

Certificate
증명서

TỔNG CỤC TIÊU CHUẨN ĐO LƯỜNG CHẤT LƯỢNG
TRUNG TÂM CHỨNG NHẬN PHÙ HỢP (QUACERT)

GIẤY CHỨNG NHẬN

Sản phẩm: Tấm sàn liên cốt thép
với nhãn hiệu thương mại SP Deck
được sản xuất tại
CÔNG TY CỔ PHẦN KỸ THUẬT VÀ THƯƠNG MẠI SBC VIỆT NAM
Địa chỉ đăng ký kinh doanh: Tầng 3, số 180, phố Hoàng Ngân, phường Trung Hòa, quận Cầu Giấy, Hà Nội, Việt Nam; Nhà máy: Lô CN7-2, Khu công nghiệp Tân Trường, huyện Cẩm Giàng, tỉnh Hải Dương, Việt Nam
phù hợp với yêu cầu của tiêu chuẩn (xem phụ lục kèm theo)
JG/T 368:2012

Phương thức chứng nhận: Phương thức 5 (theo Thông tư số 28/2012/TT-BKHCN ngày 12/12/2012)
Số Giấy chứng nhận: SP 2720.20.17
Hiệu lực Giấy chứng nhận: từ ngày 18/03/2020 đến ngày 17/03/2023
Ngày chứng nhận lần đầu: 18/03/2020

GIÁM ĐỐC
Phạm Lê Cường

QUACERT - 8 Hoàng Quốc Việt, Cầu Giấy, Hà Nội, Việt Nam.
Hiệu lực của Giấy chứng nhận này có thể được kiểm tra tại www.quacert.gov.vn

DIRECTORATE FOR STANDARDS, METROLOGY AND QUALITY (STAMEQ)
VIETNAM CERTIFICATION CENTRE (QUACERT)

CERTIFICATE

This is to certify that the Products as : Steel-bar truss deck
with Trade Mark SP Deck
made by
SBC VIET NAM TRADING AND TECHNICAL JOINT STOCK COMPANY
Registration address: Floor 3, No. 180 Hoang Ngan street, Trung Hoa ward, Cau Giay district, Hanoi, Vietnam; Factory: Lot CN 7-2, Tan Truong Industrial Park, Cam Giang district, Hai Duong province, Vietnam
have been found to conform with the standard (please see appendix for more detail)
JG/T 368:2012

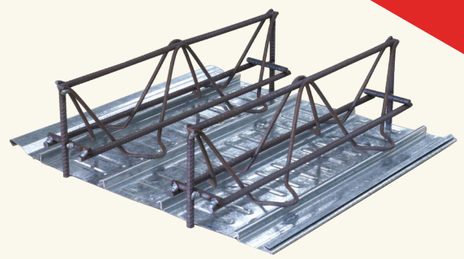
Certification System: SYSTEM 5 (Circular No. 28/2012/TT-BKHCN dated 12 Dec 2012)
Certificate Number: SP 2720.20.17
The validity of this Certificate: from 18 March 2020 to 17 March 2023
Original Certification: 18 March 2020

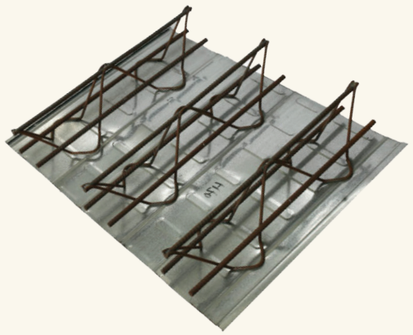
Director
Phạm Lê Cường

QUACERT - 8 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam.
The validity of this certificate can be checked at website: www.quacert.gov.vn and www.jas-anz.org/register

Introduction

SP Deck is manufactured by Seico with an imported line according to JG/T 368:2012 (equivalent to JIS G 3532:2011). The product uses coil steel that meets JIS G3101, ASTM A36 standards. Galvanized steel sheet meets TCVN 5408:2007, ASTM A792M standards.





소개

Seico가 JG/T 368:2012표준에 따라 수입된 라인 (JIS G 3532:2011에 상응) 에서 생산되었습니다. 본 제품은 JIS G3101표준과 ASTM A36표준을 충족한 코일강을 사용합니다. 아연 도금 강판은 TCVN 5408:2007표준과 ASTM A792M 표준을 충족합니다.

Production line
생산라인

Product advantages
제품의 장점

Using SP Deck allows girder span reach up to 4.7m, no struts required. Reduce the volume of beam steel and save construction costs.

Because the SP Deck has a nearly flat profile, the ceiling surface has a superior aesthetic compared to the traditional deck. Ceiling work can be omitted.

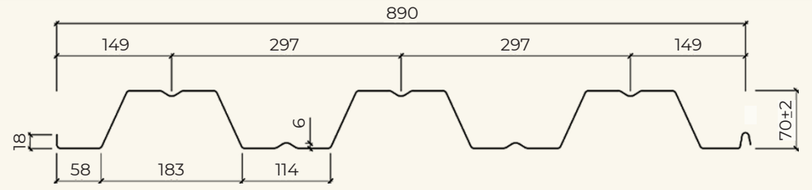
SP Deck accelerates floor construction time by 50% due to pre-welded steel available. Shorten the construction process of lower layer steel, improve work efficiency.

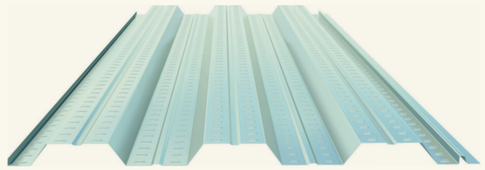
*SP Deck*는 스트럿이 필요하지 않고 최대 *4.7m*의 거더 스팬 도달이 가능합니다. 보강의 양을 줄이고 공사비용을 절약합니다.

*SP Deck*는 거의 평평한 프로파일을 가지고 있기 때문에 천장 표면은 기존 *deck*에 비해 뛰어난 미관성을 가집니다. 천장 작업은 생략될 수 있습니다.

*SP Deck*는 사전 용접된 강철을 사용해서 바닥 공사 시간을 *50%* 단축합니다. 하층 강철의 작업시간을 단축하고 작업의 효율성을 향상시킵니다.

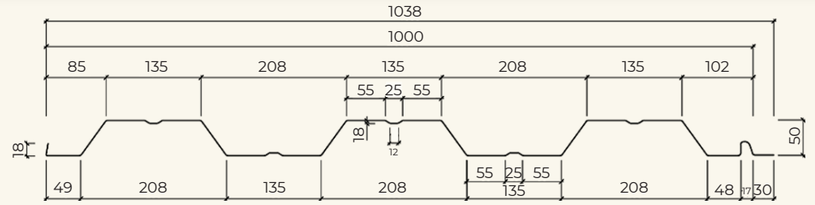
Traditional Form Deck

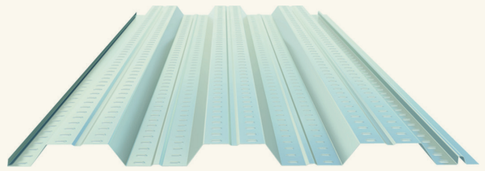




FLOOR DECKING SHEET - W 890

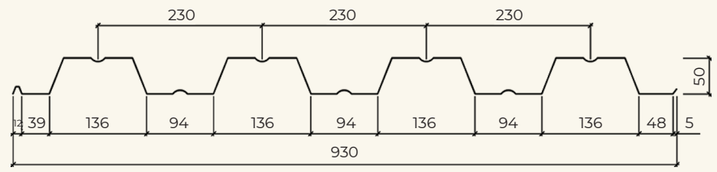
Deck Type:	3 Ribs
Height of Deck plate:	70mm
Useful Width:	890mm
Length of Deck Plate:	1 - 12m
Thickness of Deck Plate:	0.75~1.15 mm
AZ Thickness Coat:	Z80 ~ Z180
Tensil Strength:	G300-G450

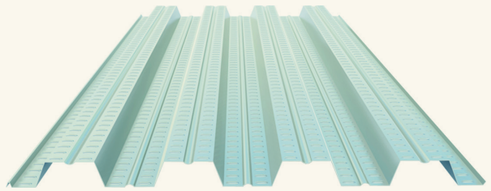




FLOOR DECKING SHEET - W 1000

Deck Type:	3 Ribs
Height of Deck plate:	50mm
Useful Width:	1000mm
Length of Deck Plate:	1 - 12m
Thickness of Deck Plate:	0.75~1.15 mm
AZ Thickness Coat:	Z80 ~ Z180
Tensil Strength:	G300-G450

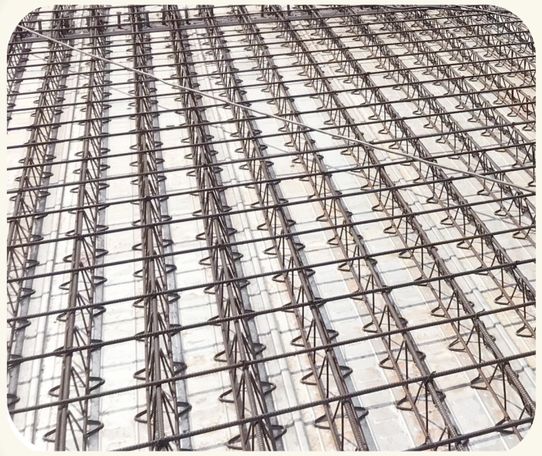


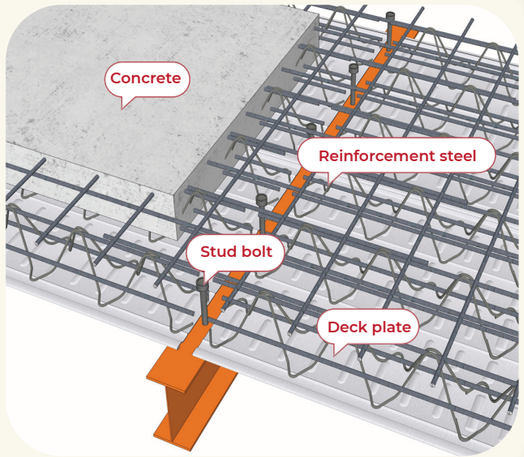


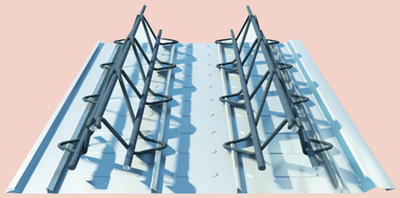
FLOOR DECKING SHEET - W 930

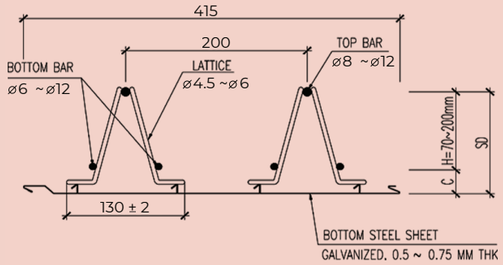
Deck Type:	4 Ribs
Height of Deck plate:	50mm
Useful Width:	930mm
Length of Deck Plate:	1 - 12m
Thickness of Deck Plate:	0.75~1.15 mm
AZ Thickness Coat:	Z80 ~ Z180
Tensil Strength:	G300~G450

SP - Deck New



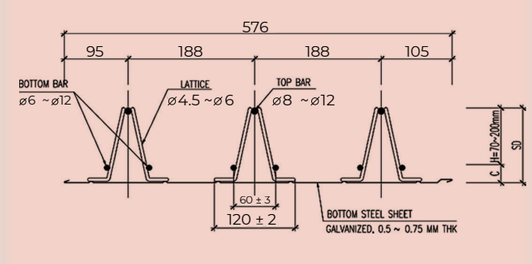






DECKING SHEET SP - DECK W 400

Steel bar:	2 lines
Height of steel bar:	70 ~ 220mm
Useful Width:	400mm
Length of Deck Plate:	1 - 9m
Thickness of Deck Plate:	0.5~0.75 mm
AZ Thickness Coat:	Z80 - Z275
Tensil Strength:	G300~G550



DECKING SHEET SP - DECK W 566

Steel bar:	3 lines
Height of steel bar:	70 ~ 220mm
Useful Width:	566mm
Length of Deck Plate:	1 - 9m
Thickness of Deck Plate:	0.5~0.75 mm
AZ Thickness Coat:	Z80 ~ Z275
Tensil Strength:	G300~G550

FLOOR SHEET TABLE SP - DECK

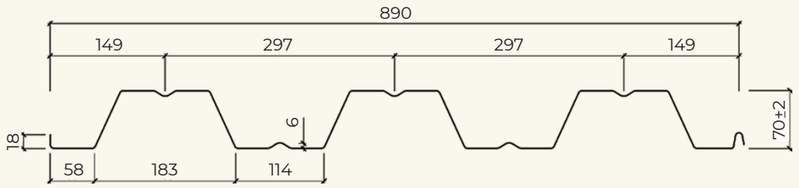
Steel Grade CB500-v

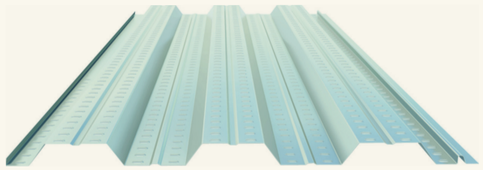
Plate number	Steel truss height F (mm)	Diameter of truss steel			Reinforced steel at the pillow		Floor Thickness H (mm)	Spacing of auxiliary beams in construction phase (m)	Spacing of auxiliary beams in use period (m)					
		Upper bar (mm)	Belly bar (mm)	Lower bar (mm)	Diameter (mm)	Anchor length Lc (mm)			Working load (kg/m2)					
									200	300	400	500	700	1000
SD1-90	90	8	4	6	8	550	120	**2.4**	3.6	3.3	3.1	2.9	2.6	2.3
SD1-120	120						150	**2.9**	3.9	3.6	3.4	3.2	2.9	2.6
SD1-150	150						180	**3.2**	4.1	3.9	3.7	3.5	3.2	2.8
SD1-170	170						200	**3.4**	-	-	-	-	-	-
SD1-220	220						250	**3.8**	-	-	-	-	-	-
SD2-90	90	8	5	8	8	550	120	**2.4**	3.9	3.7	3.6	3.4	3.1	**2.7**
SD2-120	120						150	**2.9**	4.6	4.3	4	3.8	3.5	**3.1**
SD2-150	150						180	**3.2**	4.9	4.6	4.3	4.1	3.8	**3.4**
SD2-170	170						200	**3.4**	-	-	-	-	-	-
SD2-220	220						250	**3.8**	-	-	-	-	-	-
SD3-90	90	10	5	8	10	660	120	**2.8**	3.9	3.8	3.7	3.5	**3.3**	**2.9**
SD3-120	120						150	**3.3**	4.6	4.5	4.4	4.2	**3.8**	**3.4**
SD3-150	150						180	**3.7**	5.3	5.1	4.9	4.6	**4.2**	**3.7**
SD3-170	170						200	**3.9**	5.6	5.3	5	4.8	4.4	**3.9**
SD3-220	220						250	**4.2**	6	5.6	5.4	5.2	4.8	**4.3**
SD4-90	90	10	6	10	10	660	120	**2.8**	4.1	3.9	3.8	3.7	3.5	**2.9**
SD4-120	120						150	**3.3**	4.8	4.6	4.5	4.4	4.2	**3.5**
SD4-150	150						180	**3.7**	5.5	5.3	5.2	5.1	4.6	**4.1**
SD4-170	170						200	**3.9**	6	5.8	5.6	5.3	4.9	**4.4**
SD4-220	220						250	**4.2**	6.6	6.3	6	5.8	5.3	**4.8**
SD5-90	90	12	6	8	12	780	120	**3.1**	4.2	4	3.8	3.7	3.4	**2.9**
SD5-120	120						150	**3.7**	5	4.7	4.4	4.2	**3.8**	**3.4**
SD5-150	150						180	**4.1**	5.4	5.1	4.8	4.5	**4.1**	**3.7**
SD5-170	170						200	**4.4**	5.6	5.3	5	4.7	**4.3**	**3.9**
SD5-220	220						250	**4.7**	6	5.7	5.4	5.1	**4.7**	**4.3**
SD6-90	90	12	6	10	12	780	120	**3.3**	4.4	4.2	4.1	3.9	3.6	2.9
SD6-120	120						150	**3.7**	5.2	4.9	4.8	4.7	4.4	**3.5**
SD6-150	150						180	**4.1**	6	5.7	5.6	5.4	5.1	**4.1**
SD6-170	170						200	**4.4**	6.5	6.2	6	5.8	5.3	**4.4**
SD6-220	220						250	**4.7**	7.3	7	6.6	6.3	5.8	**5.1**
SD7-90	90	12	6	12	12	780	120	**3.3**	4.4	4.2	4.1	3.9	3.6	2.9
SD7-120	120						150	**3.8**	5.4	5.1	5	4.8	4.5	3.5
SD7-150	150						180	**4.1**	6.1	5.9	5.7	5.5	5.1	4.1
SD7-170	170						200	**4.4**	6.6	6.4	6.2	6	5.5	4.4
SD7-220	220						250	**4.7**	7.7	7.5	7.1	6.8	6.3	5.2

Note:

- Assume calculations with 5 spans or more continuous floor beam system.
- Assume the use of durable grade concrete B25 (fck = 20 Mpa), steel grade CB300V (fy = 300 Mpa) or CB500V (Fy = 500 Mpa).
- Assume the floor surface finish is 50mm thick, density 1900 kg/m3.
- Always ensure that the concrete floor thickness does not exceed the calculated concrete thickness during the construction process.
- Do not pour concrete in the middle of the span.

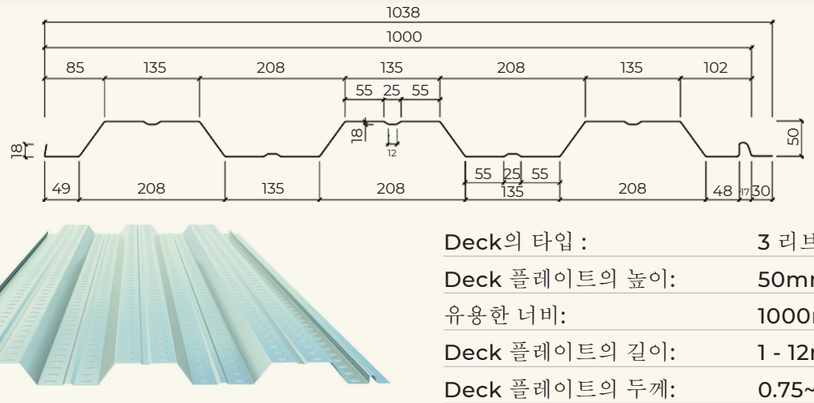
Traditional Form Deck

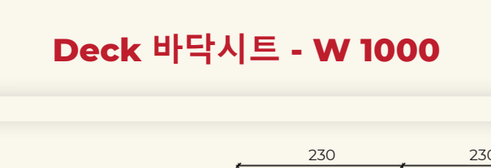




Deck 바닥시트 - W 890

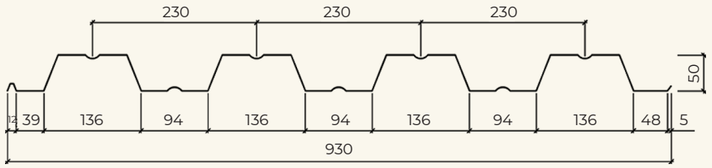
Deck의 타입 :	3 리브
Deck 플레이트의 높이:	70mm
유용한 너비:	890mm
Deck 플레이트의 길이:	1 - 12m
Deck 플레이트의 두께:	0.75~1.15 mm
아연 도금의 두께:	Z80 ~ Z180
인장 강도:	G300-G450

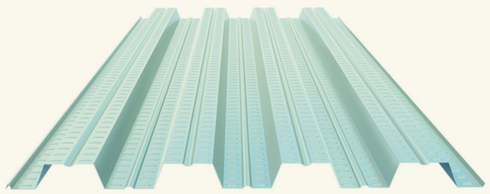




Deck 바닥시트 - W 1000

Deck의 타입 :	3 리브
Deck 플레이트의 높이:	50mm
유용한 너비:	1000mm
Deck 플레이트의 길이:	1 - 12m
Deck 플레이트의 두께:	0.75~1.15 mm
아연 도금의 두께:	Z80 ~ Z180
인장 강도:	G300-G450

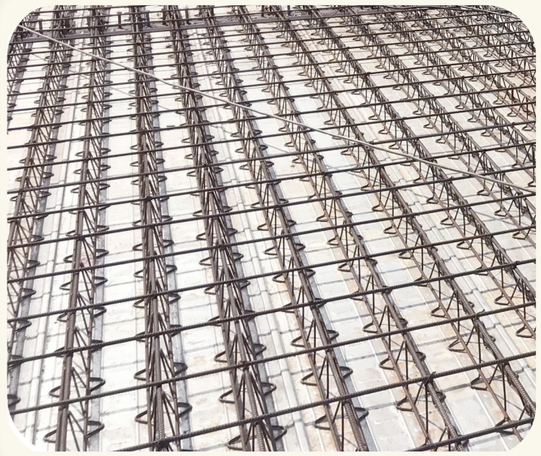


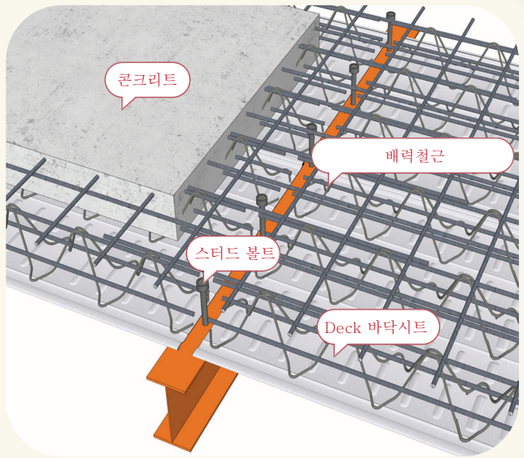


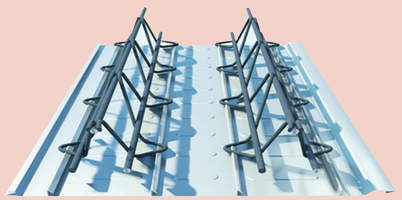
Deck 바닥시트 - W 930

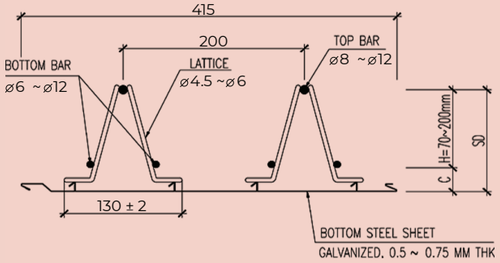
Deck의 타입 :	4 리브
Deck 플레이트의 높이:	50mm
유용한 너비:	930mm
Deck 플레이트의 길이:	1 - 12m
Deck 플레이트의 두께:	0.75~1.15 mm
아연 도금의 두께:	Z80 ~ Z180
인장 강도:	G300~G450

SP - Deck New



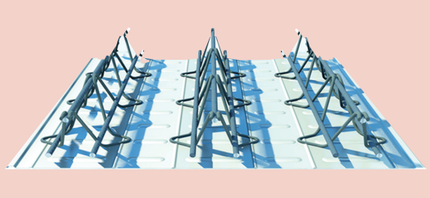


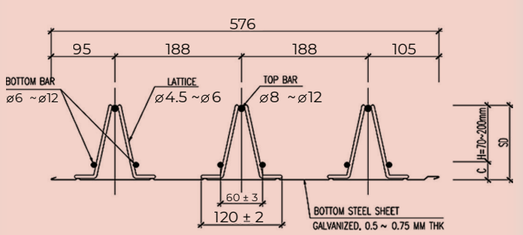




SP 바닥 시트 - DECK W 400

강철봉:	2 개
강철봉의 높이:	70 ~ 220mm
유용한 너비:	400mm
Deck 플레이트의 길이:	1 - 9m
Deck 플레이트의 두께:	0.5~0.75 mm
아연 도금의 두께:	Z80 - Z275
인장 강도:	G300~G550





SP 바닥 시트 - DECK W 566

강철봉:	3 개
강철봉의 높이:	70 ~ 220mm
유용한 너비:	566mm
Deck 플레이트의 길이:	1 - 9m
Deck 플레이트의 두께:	0.5~0.75 mm
아연 도금의 두께:	Z80 ~ Z275
인장 강도:	G300~G550

SP Deck 시트 표

강종 CB500-V

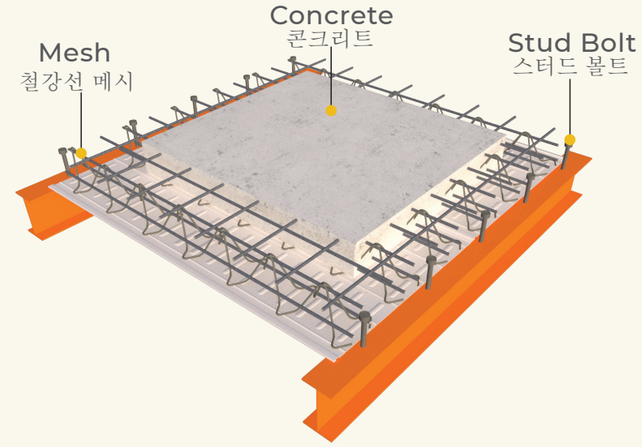
시트의 번호	강철 트러스의 높이F (mm)	강철의 지름			보강용 철근		바닥의 길이 H (mm)	시공 단계 시 보조보의 간격 (m)	사용 단계 시 보조보의 간격 (m)					
		상부철 (mm)	하부철 (mm)	하부철 (mm)	지름 (mm)	내장된 길이 Lc (mm)			사용된 활하중 (kg/m2)					
									200	300	400	500	700	1000
SD1-90	90	8	4	6	8	550	120	**2.4**	3.6	3.3	3.1	2.9	2.6	2.3
SD1-120	120						150	**2.9**	3.9	3.6	3.4	3.2	2.9	2.6
SD1-150	150						180	**3.2**	4.1	3.9	3.7	3.5	3.2	2.8
SD1-170	170						200	**3.4**	-	-	-	-	-	-
SD1-220	220						250	**3.8**	-	-	-	-	-	-
SD2-90	90	8	5	8	8	550	120	**2.4**	3.9	3.7	3.6	3.4	3.1	**2.7**
SD2-120	120						150	**2.9**	4.6	4.3	4	3.8	3.5	**3.1**
SD2-150	150						180	**3.2**	4.9	4.6	4.3	4.1	3.8	**3.4**
SD2-170	170						200	**3.4**	-	-	-	-	-	-
SD2-220	220						250	**3.8**	-	-	-	-	-	-
SD3-90	90	10	5	8	10	660	120	**2.8**	3.9	3.8	3.7	3.5	**3.3**	**2.9**
SD3-120	120						150	**3.3**	4.6	4.5	4.4	4.2	**3.8**	**3.4**
SD3-150	150						180	**3.7**	5.3	5.1	4.9	4.6	**4.2**	**3.7**
SD3-170	170						200	**3.9**	5.6	5.3	5	4.8	4.4	**3.9**
SD3-220	220						250	**4.2**	6	5.6	5.4	5.2	4.8	**4.3**
SD4-90	90	10	6	10	10	660	120	**2.8**	4.1	3.9	3.8	3.7	3.5	**2.9**
SD4-120	120						150	**3.3**	4.8	4.6	4.5	4.4	4.2	**3.5**
SD4-150	150						180	**3.7**	5.5	5.3	5.2	5.1	4.6	**4.1**
SD4-170	170						200	**3.9**	6	5.8	5.6	5.3	4.9	**4.4**
SD4-220	220						250	**4.2**	6.6	6.3	6	5.8	5.3	**4.8**
SD5-90	90	12	6	8	12	780	120	**3.1**	4.2	4	3.8	3.7	3.4	**2.9**
SD5-120	120						150	**3.7**	5	4.7	4.4	4.2	**3.8**	**3.4**
SD5-150	150						180	**4.1**	5.4	5.1	4.8	4.5	**4.1**	**3.7**
SD5-170	170						200	**4.4**	5.6	5.3	5	4.7	**4.3**	**3.9**
SD5-220	220						250	**4.7**	6	5.7	5.4	5.1	**4.7**	**4.3**
SD6-90	90	12	6	10	12	780	120	**3.3**	4.4	4.2	4.1	3.9	3.6	2.9
SD6-120	120						150	**3.7**	5.2	4.9	4.8	4.7	4.4	**3.5**
SD6-150	150						180	**4.1**	6	5.7	5.6	5.4	5.1	**4.1**
SD6-170	170						200	**4.4**	6.5	6.2	6	5.8	5.3	**4.4**
SD6-220	220						250	**4.7**	7.3	7	6.6	6.3	5.8	**5.1**
SD7-90	90	12	6	12	12	780	120	**3.3**	4.4	4.2	4.1	3.9	3.6	2.9
SD7-120	120						150	**3.8**	5.4	5.1	5	4.8	4.5	3.5
SD7-150	150						180	**4.1**	6.1	5.9	5.7	5.5	5.1	4.1
SD7-170	170						200	**4.4**	6.6	6.4	6.2	6	5.5	4.4
SD7-220	220						250	**4.7**	7.7	7.5	7.1	6.8	6.3	5.2

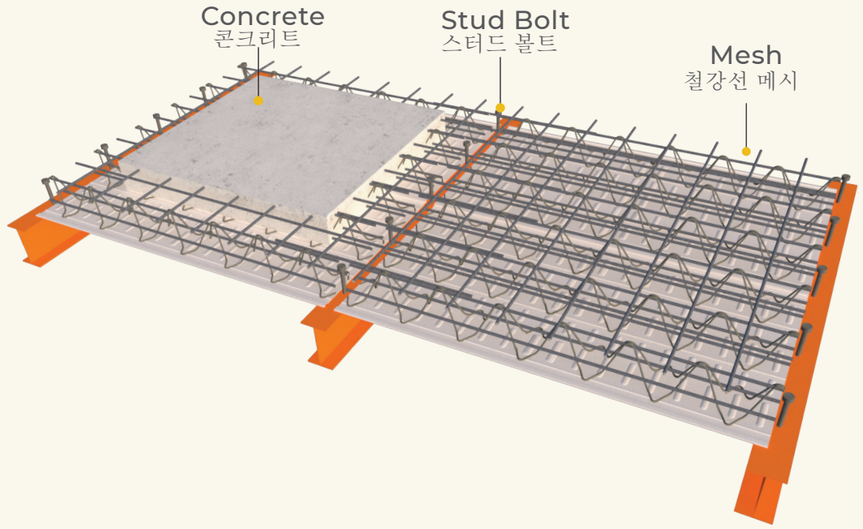
비고:

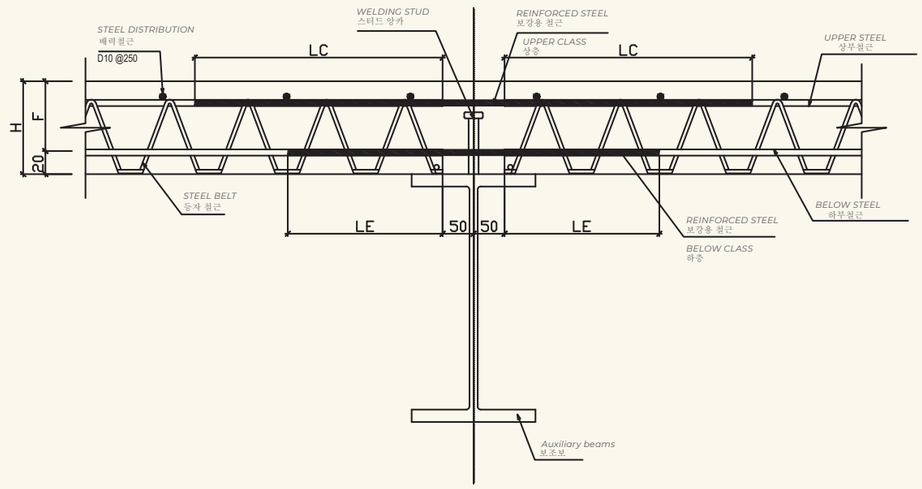
- 5경간 이상의 연속보로 계산하도록 가정합니다
- 압축강도가 B25 (fck = 20 Mpa)인 콘크리트, 강종이 CB300V(fy=300 Mpa) 또는 CB500V (Fy = 500 Mpa)인 철근을 사용한다고 가정합니다.
- 바닥표면의 마감층의 두께를 50mm, 비중을 1900 kg/m3으로 가정합니다.
- 시공 과정에 바닥용 콘크리트의 두께가 계산상 콘크리트의 두께를 초과하지 않게 해야 합니다.
- 경간 가운데에 콘크리트를 집중하게 붓지 않습니다.

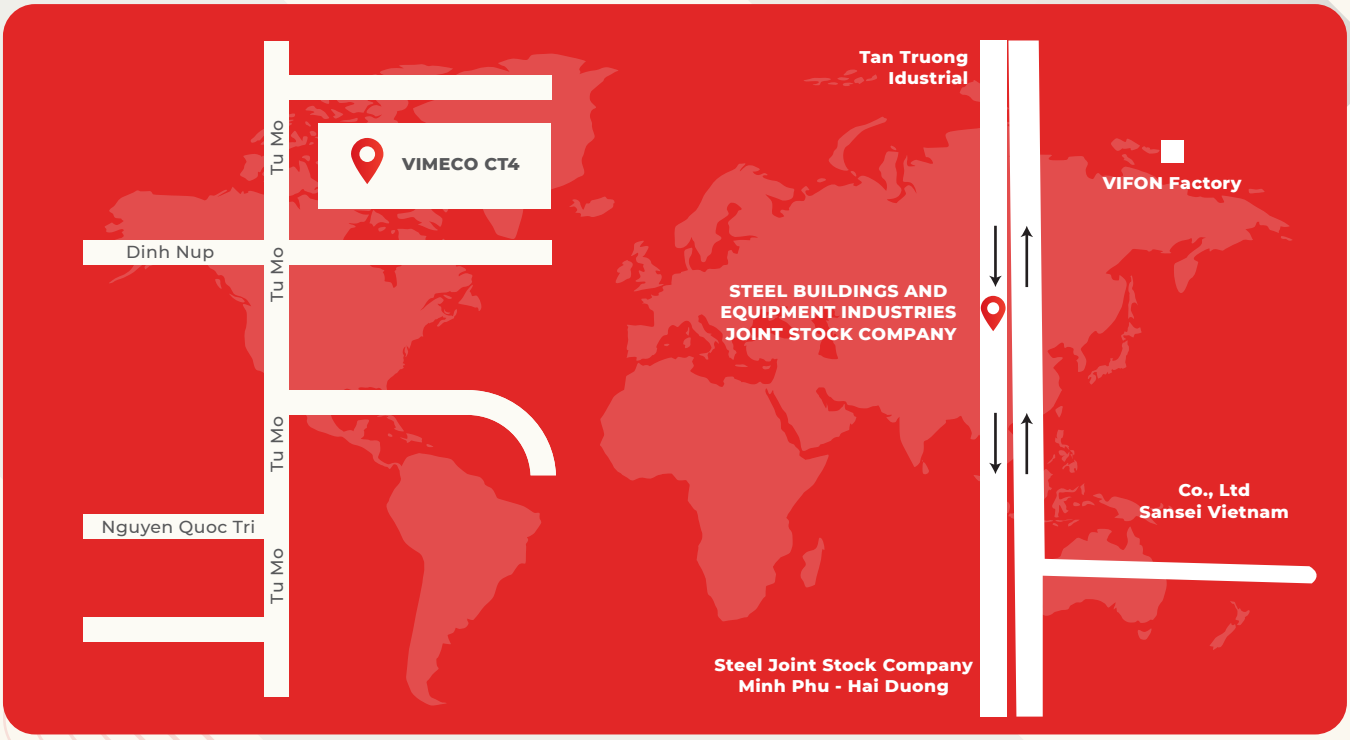
SP DECK FLOOR CONSTRUCTION PLAN

SP DECK 바닥 시공방법









VAN DON URBAN AREA
Investor/main contractor:
Phuong Dong JSC
Address: Van Đon, Quang Ninh
Acreage: 15.000 m²

ALPHA GREEN TECH VINA
Investor/main contractor:
Alpha Green Tech Vina
Address: Hiep Hoa, Bac Giang
Acreage: 5.000 m²

LONG SON PETROCHEMICAL
Investor/main contractor:
Long Son P.I.C
Address: Ba Ria, Vung Tau
Acreage: 2.000 m²

SK NEXILIS
Investor/main contractor: SK Nexilis
Address: Malaysia
Acreage: 36.000 m²

LG DISPLAY
Investor/main contractor: LG Display
Address: Hai Phong
Acreage: 70.000 m²

STEEL BUILDINGS AND EQUIPMENT INDUSTRIES JOINT STOCK COMPANY

- **Office:** 4 Floor, Vimeco CT4, Nguyen Chanh, Trung Hoa, Cau Giay, Ha Noi
- **Factory:** Lot CN 1-2, Tan Truong Industrial Park, Cam Giang, Hai Duong

(+84) 24 2210 6611

SBC VIET NAM TRADING AND TECHNICAL JOINT STOCK COMPANY

- **Office:** 4 Floor, Vimeco CT4, Nguyen Chanh, Trung Hoa, Cau Giay, Ha Noi
- **Factory:** Tan Truong Industrial Park, Cam Giang, Hai Duong

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