

# SB SUPER BEAMS

## COMPOSITE WELDED BEAMS

### BENIFITS OF STRUCTURES BUILT WITH COMPOSITE SECTIONS:

- Unlimited possibilities
- Flexibility in design
- Maximum material usage
- Economical solutions
- Speed of construction



**DS STEEL S.A.**

### TECHNICAL SPECIFICATIONS

|     |      |     |    |    |       |      |     |    |    |       |      |      |    |    |       |
|-----|------|-----|----|----|-------|------|-----|----|----|-------|------|------|----|----|-------|
|     |      |     |    |    |       |      |     |    |    |       |      |      |    |    |       |
| h   | b    | t   | d  | L* | h     | b    | t   | d  | L* | h     | b    | t    | d  | L* |       |
| min | 500  | 165 | 8  | 10 | 3000  | 300  | 165 | 8  | 10 | 3000  | 500  | 300  | 8  | 10 | 3000  |
| max | 2400 | 700 | 25 | 70 | 14000 | 2400 | 700 | 25 | 70 | 14000 | 2400 | 2100 | 30 | 70 | 14000 |

\* L = Length

Ability to produce custom sizes upon request

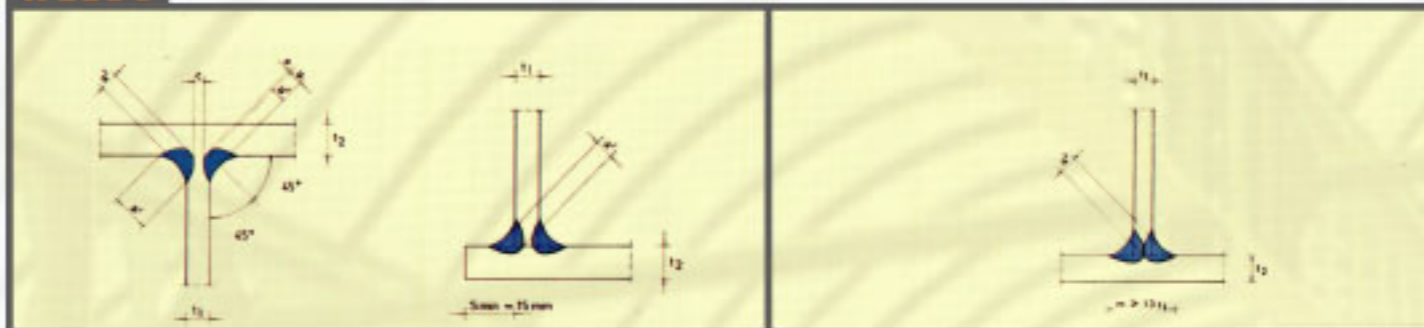
### TOLERANCES

|      |                 |         |
|------|-----------------|---------|
| H mm | H < 700         | ±3 mm   |
|      | 700 ≤ H ≤ 1400  | ±4 mm   |
|      | 1400 < H ≤ 2000 | ±5 mm   |
| b mm |                 | ±2 mm   |
| t mm | t ≤ 10          | ±0.5 mm |
|      | 10 ≤ t ≤ 30     | ±1.0 mm |
|      | t > 30          | ±1.5 mm |
| d mm | d ≤ 10          | ±0.5 mm |
|      | 10 ≤ d ≤ 30     | ±1.0 mm |
|      | d > 30          | ±1.5 mm |

$e \leq 0.12 b$   
 $f \leq 0.01 \frac{b}{2}$   
 $S = \frac{b_1 - b_2}{2}$   
 $a_r = a + 1/2 e_{min} (e_{min} = 4 \text{ mm})$   
 $a_r \leq 0.7 t_1$   
 $c \leq 1/5 t_1 (c_{max} = 3 \text{ mm})$

$L \leq 10.0m \pm 30 \text{ mm} - 0 \text{ mm} / L \geq 10.0m \pm 50 \text{ mm} - 0 \text{ mm}$   
 $q \leq 0.001 L$   
 $p \leq 0.001 L$

### WELDS



$a_r = a + 1/2 e_{min} (e_{min} = 4 \text{ mm})$

$a_r \leq 0.7 t_1$

$c \leq 1/5 t_1 (c_{max} = 3 \text{ mm})$

### INSPECTIONS & CERTIFICATES

Quality and testing procedures are in full and strict accordance with the relevant standards. Test certificates can be supplied if so specified in the order.

**INDUSTRIAL AREA OF LARISSA** 15 km Larissa – Thessaloniki Road  
 P.O.Box:1421 Tel: +30 2410 54 10 11 Fax: +30 2410 54 10 16  
 e-mail: [sales@dssteel.gr](mailto:sales@dssteel.gr)

**ATHENS OFFICE** Kimis Ave. & Electra 6 151 22 Marousi  
 Tel: +30 210 28 28 080 Fax: +30 210 28 28 664  
 e-mail: [athens@dssteel.gr](mailto:athens@dssteel.gr)

[www.dssteel.gr](http://www.dssteel.gr)



Dealer