

# B.C.S. SPLICE SLEEVE





The precast construction method is effective for improving the quality of reinforced concrete structures and rationalizing the construction, so applications have continued to increase. This method is an important factor in the joining between the pc members, especially the joint design and construction of the reinforcing bars.

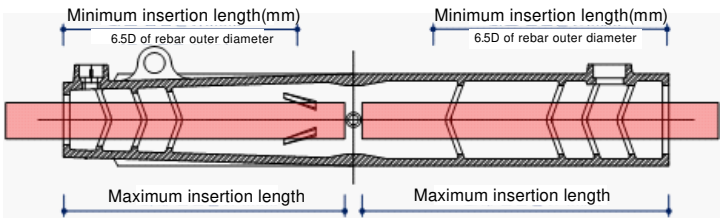
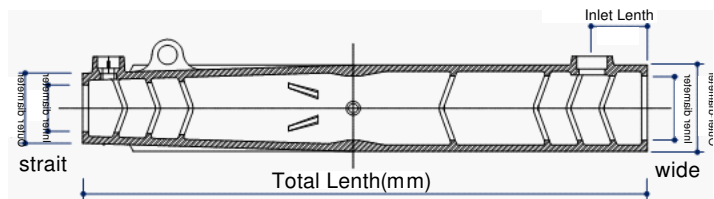
Rebar coupling method have been developed and applied to various types of couplers such as lap coupler, gas pressure welding coupler, mechanical coupler, and welded coupler. Among them, grout-charging coupler method is often adopted for its ability to absorb the error of the reinforcing bars to facilitate construction and suitability for large-diameter reinforcing bars which are widely used recently.

Also, high strength is required for concrete and rebars as well in designing rebar and concrete members, due to size of buildings has become larger and taller. The BCS splice sleeve suitable for SD600 high-strength steel bars was actually developed for reinforcing bars, and its structural performance is evaluated and put into practical use. After completion of development of SD600 high strength rebar compatible splice sleeve, it has been widely used as a reinforcing material for column members for places such as underground parking lots, parking buildings, apartment basements and warehouses. D16, D19, D22, D25, D29, D32, and D35 have been developed and commonly used after extensive testing.



## Specs and Dimensions

Product Code	KS D3504	ASTM A615	Bar Size		Sleeve Length inch / mm	Narrow End inch / mm		Wide End inch / mm		Injection Hole inch / mm	Required Rebar Embedment Length inch / mm				JS Mortar per Sleeve lbs. / kg
											Narrow End		Wide End		
			U.S.	Metric		I.D.	O.D.	I.D.	O.D.		Min	Max	Min	Max	
SSHS D16	SD500 SD600	Grade 60 Grade 80	#5	D16	9.84 / 250	0.94 / 24	1.49 / 38	1.33 / 34	1.88 / 48	1.85 / 47	4.09 / 104	4.60 / 117	4.09 / 104	5.00 / 127	12.9 / 5.8
SSHS D19	SD500 SD600	Grade 60 Grade 80	#6	D19	11.22 / 285	1.02 / 26	1.57 / 40	1.41 / 36	1.96 / 50	1.85 / 47	4.86 / 123.5	5.19 / 132	4.86 / 123.5	5.78 / 147	15.8 / 7.2
SSHS D22	SD500 SD600	Grade 60 Grade 80	#7	D22	12.79 / 325	1.18 / 30	1.77 / 45	1.61 / 41	2.28 / 58	1.85 / 47	5.62 / 143	5.70 / 145	5.62 / 143	6.69 / 170	24.7/ 11.2
SS D25	SD500 SD600	Grade 60 Grade 80	#8	D25	14.76 / 375	1.29 / 33	1.88 / 48	1.88 / 48	2.55 / 65	1.85 / 47	6.39 / 162.5	6.88 / 175	6.39 / 162.5	7.48 / 190	36.7 / 16.7
SSHS D29	SD500 SD600	Grade 60 Grade 80	#9	D29	16.93 / 430	1.41 / 36	2.00 / 51	2.00 / 51	2.75 / 70	1.85 / 47	7.42 / 188.5	7.63 / 194	7.42 / 188.5	8.81 / 224	47.4 / 21.5
SS D32	SD500 SD600	Grade 60 Grade 80	#10	D32	18.89 / 480	1.57 / 40	2.16 / 55	2.16 / 55	2.79 / 71	1.85 / 47	8.18 / 208	8.85 / 225	8.18 / 208	9.64 / 245	52.3 / 23/7



# JS UP1 Ultra High Performance Grout

JETCON UP1 is a construction material that shows stable shrinkage and high strength due to crystal growth and expansion of Ettringite, which is a stable hydration product of CSA and alumina cement, and can maximize economic effect by early stability and shortening of air.

## Usage

Connections and Support Structures for Offshore Wind Power Generators for Grout

- For marine structures grout
- Special grout construction grout
- Grout for high-rise construction
- Special foundation, for machine grout

## Features

- No shrinkage : The cracks by plastic shrinkage and shrinkage or by shrinkage compensation effect are small after curing
- High flowability : It exhibits high flowability due to low water consumption, excellent filling effect, and it has no bleeding.
- High Strength : Ettringite formation and CSH Gel due to hydration reaction, ultra fine particle material tightens pores and enhances long term strength.
- Abrasion resistance and impact resistance : The abrasion resistance and impact resistance are improved by a dense cured structure after curing.
- Salt resistance / Water permeability : It is excellent in salt resistance and water permeability by suppressing penetration of deteriorated ions such as acid and salt by dense hardened texture.

## Standard Amount of Use

- Properties: Premix type powder
- Color: Gray after mixing
- Mixing and standard usage

Division	Water / Mortar (%)	Ultrahigh Performance Grout	Water (lbs. / kg)	Standard Amount (kg / m3)
JS UP 1	14 ~ 16	25kg (1 bag)	7.71 / 3.5 ~ 8.81 / 4	1,800 ~ 2,000