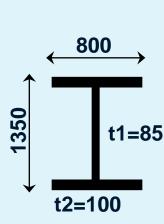
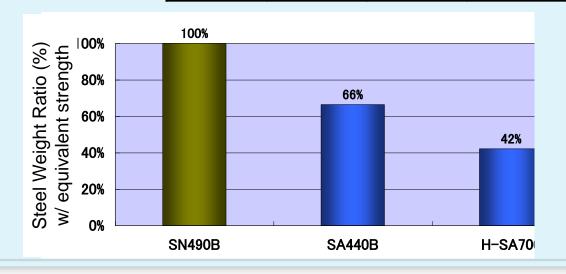
05. High Strength Steel for Buildings (SA440 • H-SA700)

High Strength Steels have an advantage in downsizing of the large and thick profile member, which results in lighter weight of member.

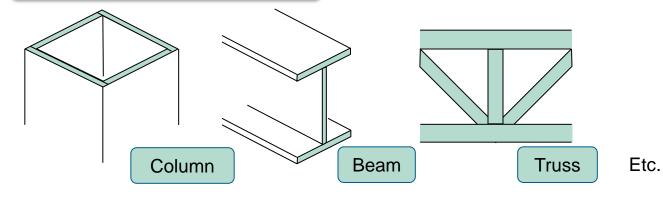
■ Designing with high strength steels, sectional dimensions and steel weights can be reduced remarkably. In addition, fabrication work load can be reduced as well.



		SN490B	SA440	H-SA700	
	Fy (N/mm²)	295	440	700	
	Web Thickness t1 (mm)	85	65	40 35	
	Flange Thickness t2 (mm)	100	50		
	Section Area (cm²)	2578	1711	1085	



Applicable Sector



Feature

As for SA440 & H-SA700, constant yield strength is specified

throughout the thickness range.

	·		unroughout the unickness ra			range.	
Designation	Thickness (mm)	Yield Strength (N/mm²)	Tensile Strength (N/mm²)	Yield Ration (%)	Impact Energy (J)	Ceq (%)	Pcm (%)
	6≦t < 12	325≦	490~610	_	[0°C]	(t≤40) ≤0.44 (40 <t) ≤0.46</t) 	≦0.29
SN490B	12≦t < 40	325 ~ 445		≦80			
	40≦t≦100	295 ~ 415					
SA440C	19 ≦100	440 ~540	590 ~ 740	≦80	[0℃] 47≦	$(t \le 40)$ ≤ 0.44 (40 < t)	≦0.28
						≦0.47	≦0.30
H-SA700B	6 ≦ 50	700 ~ 900	780 ~1000	≦ 98	[-20℃] 47≦	≦0.60	≦0.30

Track Record

Adopted in various applications

Cost

To get information, please ask the contact shown bellow.