



**Steel Grades as per
EN 10219-1 Cold formed welded
structural hollow section**

**Compared to
API 5 L PSL 1**

Steel name	Min yield strength ReH	Min yield strength ReH	Min tensile strength Rm	Min elongation A	Min impact energy KV	API 5L PSL 1	Min yield strength ReH
Wall T mm	T ≤ 16	16 < T ≤ 40	3 ≤ T ≤ 40	T ≤ 40	T ≤ 40		
	N/mm ²	N/mm ²	N/mm ²	%	Joules		N/mm ²
Non-alloy steel							
S235JRH	235	225	360-510	24	27 @ 20°C	Gr. B	245
S275JOH	275	265	410-560	20	27 @ 0° C	X 42	289
S355JOH	355	345	470-630	20	27 @ -20°C	X 52	358
Fine grain steels						X 56	389
S275MH S275MLH	275	265	360-510	24	40 @ -20°C 27 @ -50°C	Gr. B	245
S355MH S355MLH	355	345	450-610	22	40 @ -20°C 27 @ -50°C	X 52	358
S420MH S420MLH	420	400	500-660	19	40 @ -20°C 27 @ -50°C	X 60	413
S460MH S460MLH	460	440	530-720	17	40 @ -20°C 27 @ -50°C	X 65	448
						X 70	483