X Cross Occi LoX chin strap

Football, Lacrosse, Ice Hockey helmet retention chin strap, Occipital lobe lock

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Due to recent injuries involving skull fractures in Lacrosse, Ice Hockey, and helmet retention issues in Football we have borrowed another idea from the US Military. There are currently no standards or required testing for 4 point chin straps in Football or Lacrosse. The occipital lobe locking 4 point chin strap stabilizes the helmet preventing helmet dive, cuts to the bridge of the nose and helmet rise allowing cuts to the chin. This strap also removes all exterior snaps from the shell thereby reducing the risk of unintentional chin strap release. The strap is mounted to the inside of the helmet according to Snell standards. There are no current U.S. sporting standards for chin strap mounting. The following pictures represent a occipital lobe locking chin strap. This was done in 1" red polyester for clarity. 3/4" polyester with a breaking strength of 1600 pounds is sufficient. Nylon should not be used due to elongation when wet. Polypropylene should not be used as it breaks down from UV radiation. The quick side release buckle pictured is from Echo products, it is DOT, Snell, and NIJ approved and load tests 150% higher than current Mil spec plastic side release buckles. The Echo quick release buckle is metal to metal lock up with a nylon body.





