Taxes, Subsidies, and Tariffs: "Small" Country

What is a "small" country?

 In trade theory, a country is said to be "small" if events in that country can have no effect on worldwide free trade prices

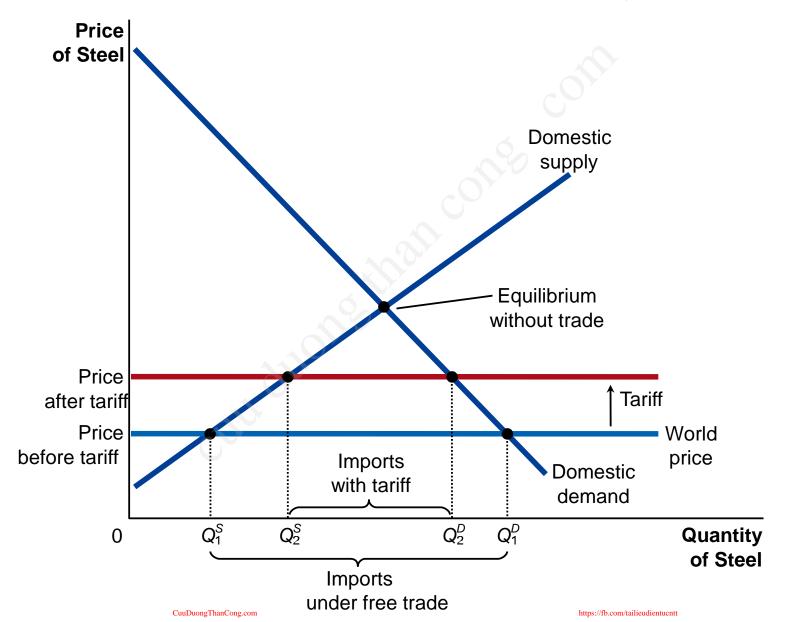
What is a Tariff?

A tariff is a tax on imported goods

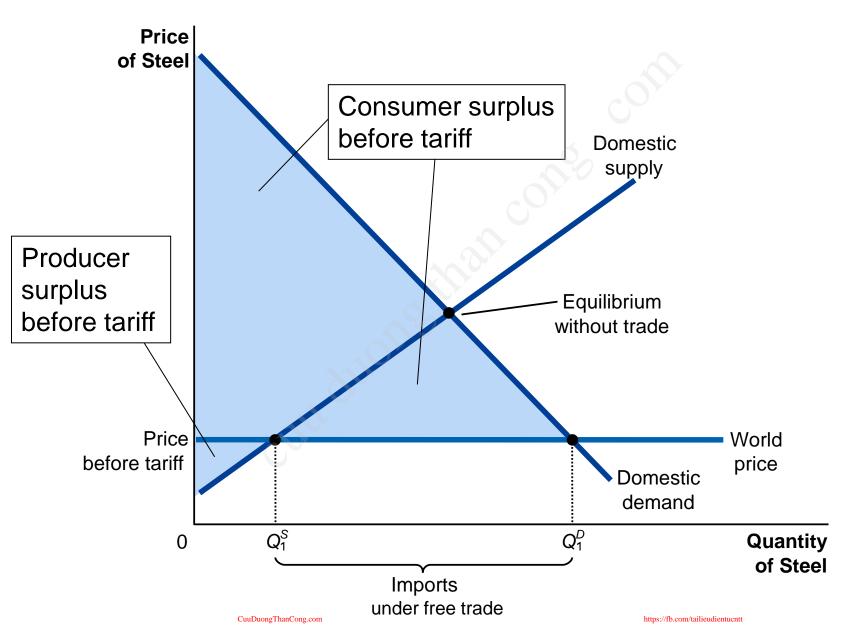
The Effects of a Tariff

- A tariff is a tax on imported goods
- Tariffs raise the price of imported goods above the world price by the amount of the tariff.
- This
 - Reduces consumption, ...
 - Increases production, and thereby ...
 - Reduces the amount imported

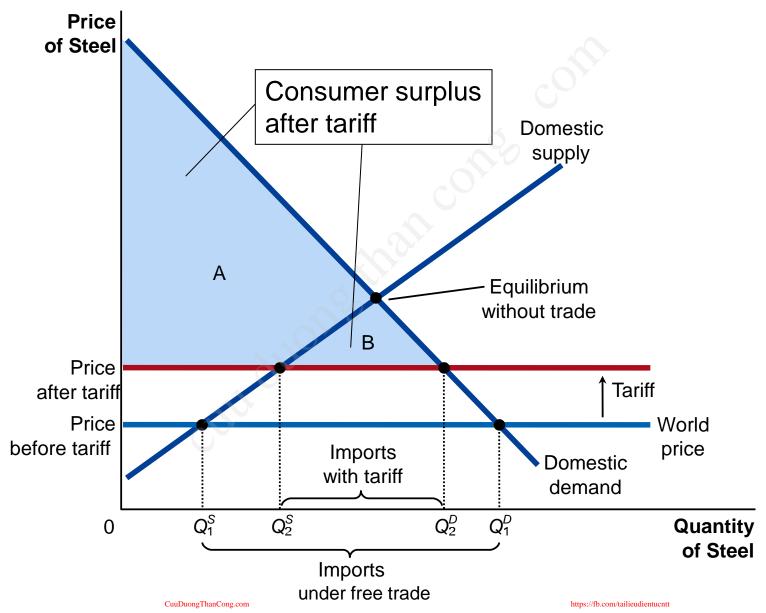
Effects of a Tariff on Prices and Quantities



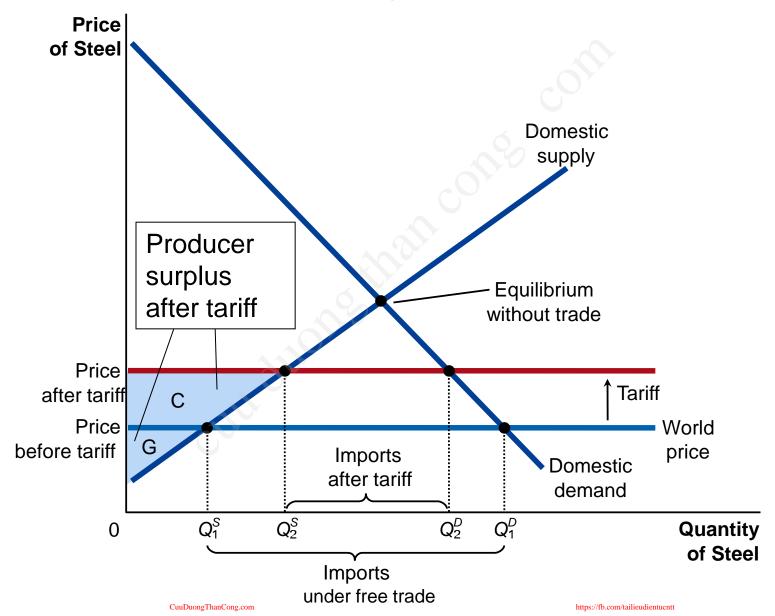
Welfare under free trade



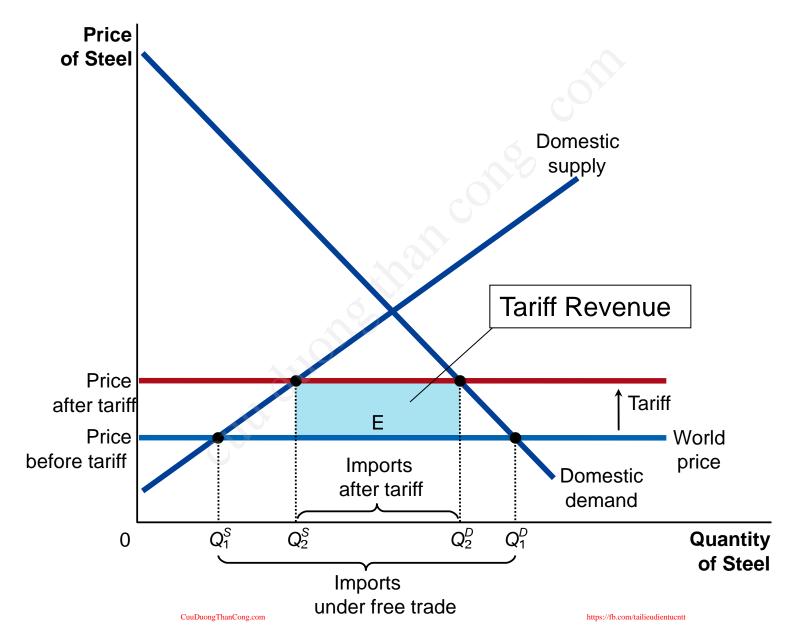
Consumer Surplus after Tariff

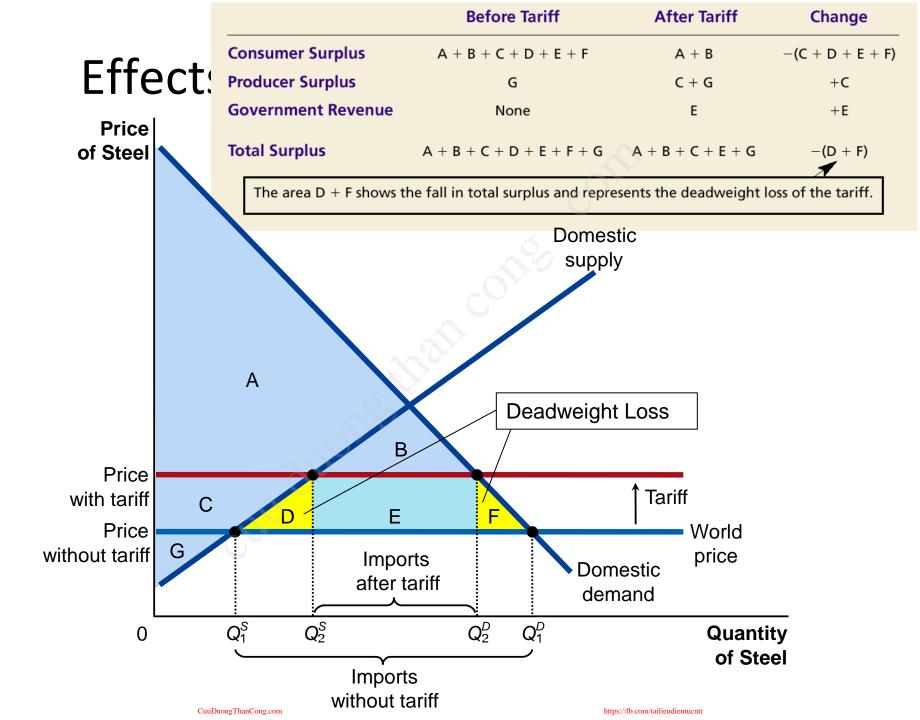


Producer Surplus after Tariff



Government's Revenue from Tariff





Welfare Effects of a Tariff

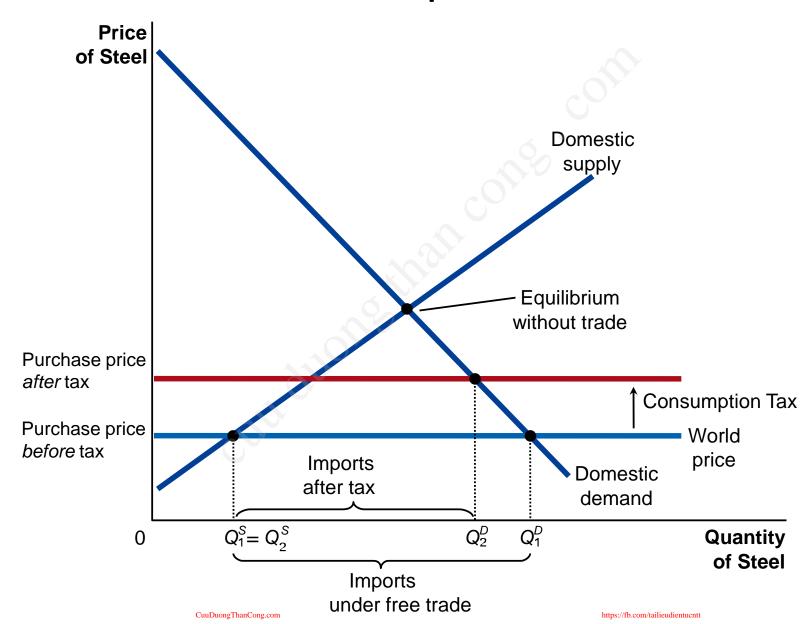
- Consumers of the imported good are worse off (compared to free trade)
- Producers of the imported good are better off
- The government gains some revenue
- Total surplus decreases, because the loss to consumers is larger than the gains to the producers and to the government
- The decrease in total surplus is called the deadweight loss of the tariff.

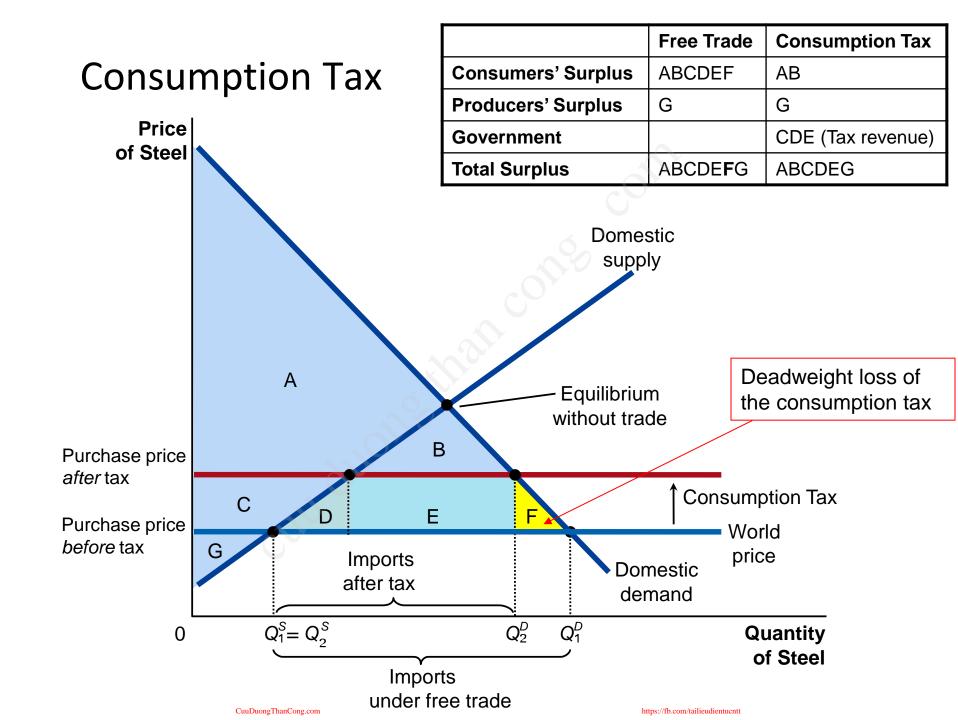
Tariffs are "third best"

- The tariff can be thought of as the combination of a production subsidy and a consumption tax
- The only rationale for a tariff is that it helps producers
- But even that goal can be better achieved by using only a production subsidy
- That way, the bad effects of the consumption tax can be avoided

CONSUMPTION TAX

Consumption Tax





Consumption Tax

	Free Trade	Consumption Tax
Consumers' Surplus	ABCDEF	AB
Producers' Surplus	G	G
Government		CDE
Total Surplus	ABCDE F G	ABCDEG

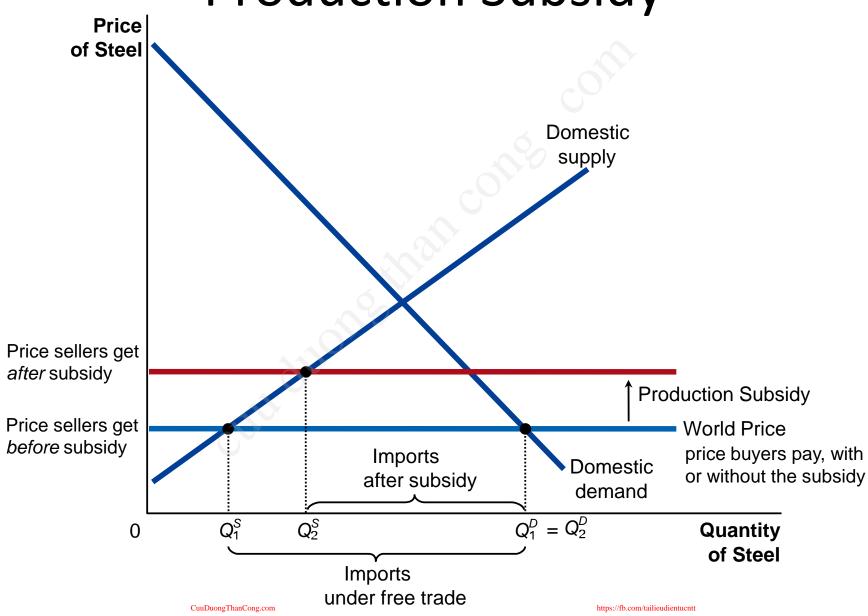
The deadweight loss of the consumption tax is F, less than D + F, the deadweight loss of the tariff.

Consumption Tax

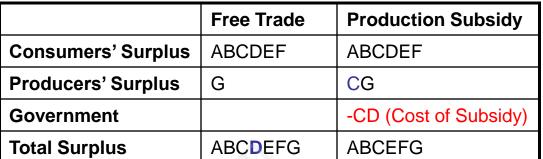
- When a small country imposes a consumption tax on the imported good
 - Production is unchanged, and
 - Consumption decreases. Therefore,
 - The amount imported decreases.
 - Consumers lose
 - Producers are unaffected
 - The government gains some tax revenue
 - The country as a whole is worse off

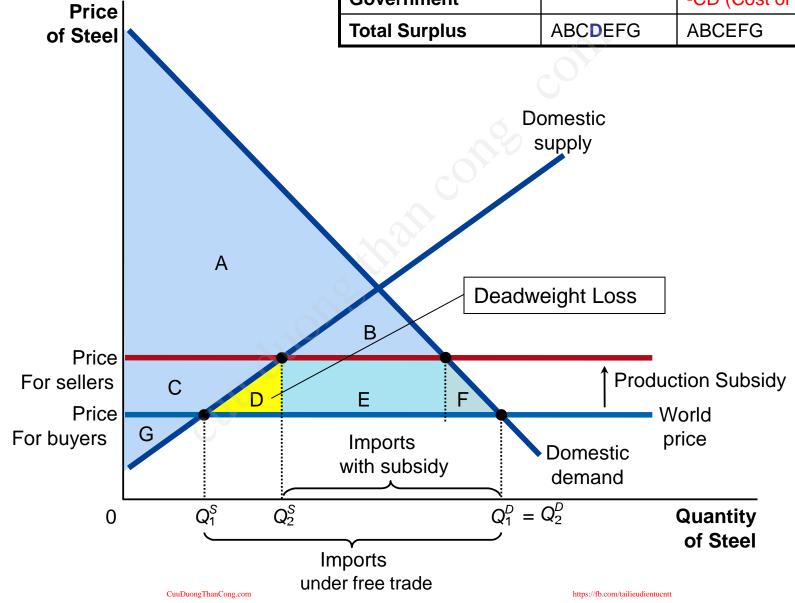
PRODUCTION SUBSIDY





Production Subsidy



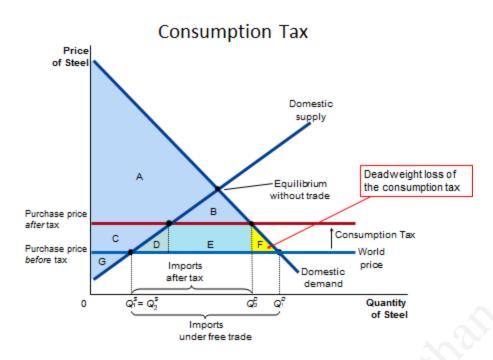


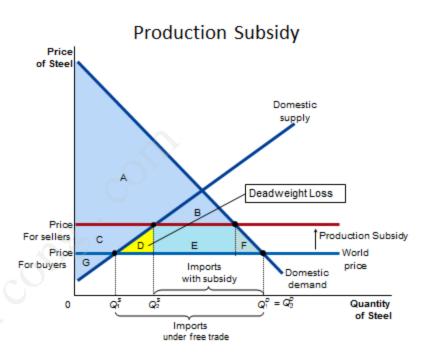
Production Subsidy

	Free Trade	Production Subsidy
Consumers' Surplus	ABCDEF	ABCDEF
Producers' Surplus	G	CG
Government		-CD
Total Surplus	ABCDEFG	ABCEFG

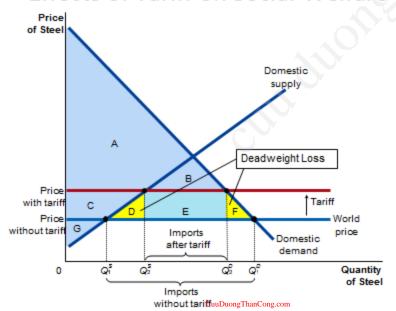
Production Subsidy

- When a small country gives a subsidy to domestic producers of an imported good
 - Consumers are unaffected
 - Producers gain (C), same as under the tariff
 - Taxpayers have to pay for the subsidy (CD)
 - Overall, the country is worse off (D).
 - Recall that under the tariff, the country suffered even more (DF)
 - Tariffs are "third best"





Effects of Tariff on Social Welfare

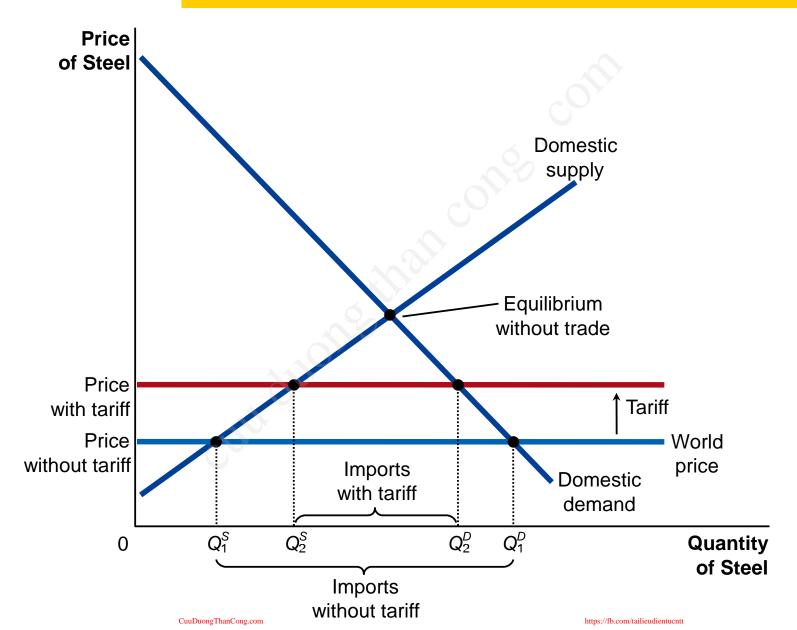


Tariff = Consumption Tax + Production Subsidy

TARIFFS ARE A "THIRD-BEST" POLICY

Q: What if a tariff is replaced by a production subsidy and a consumption tax, both equal in size to the tariff?

A: The outcome would be identical to the outcome under the tariff.

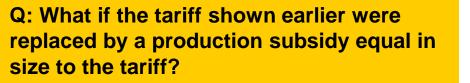


Tariffs are "third best"

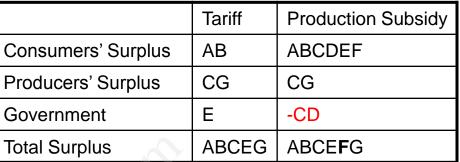
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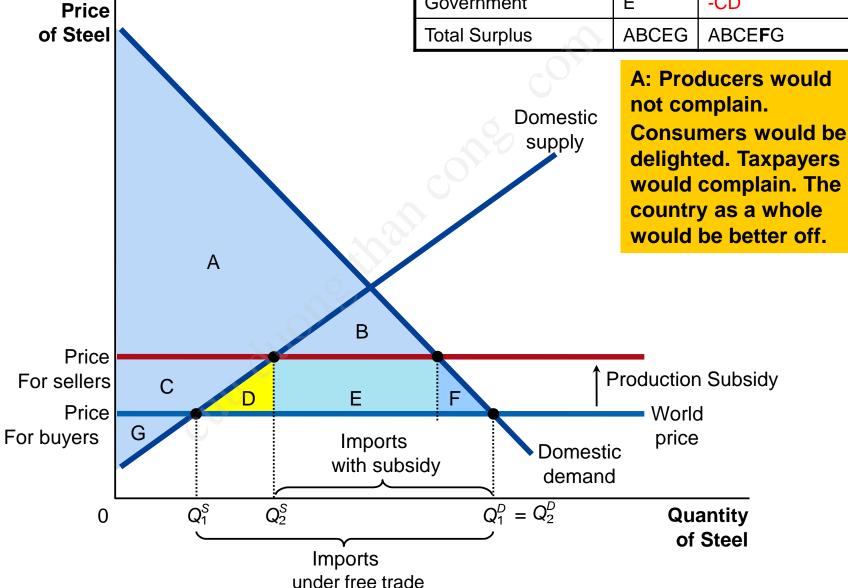
 We can also establish the superiority of the production subsidy over the tariff by a headto-head comparison

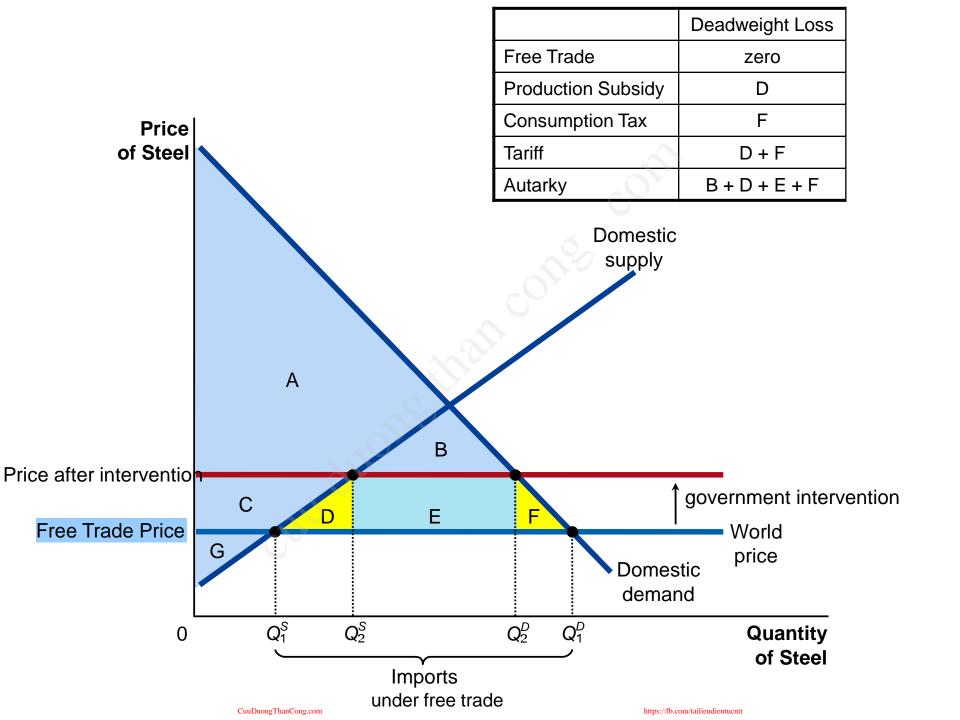


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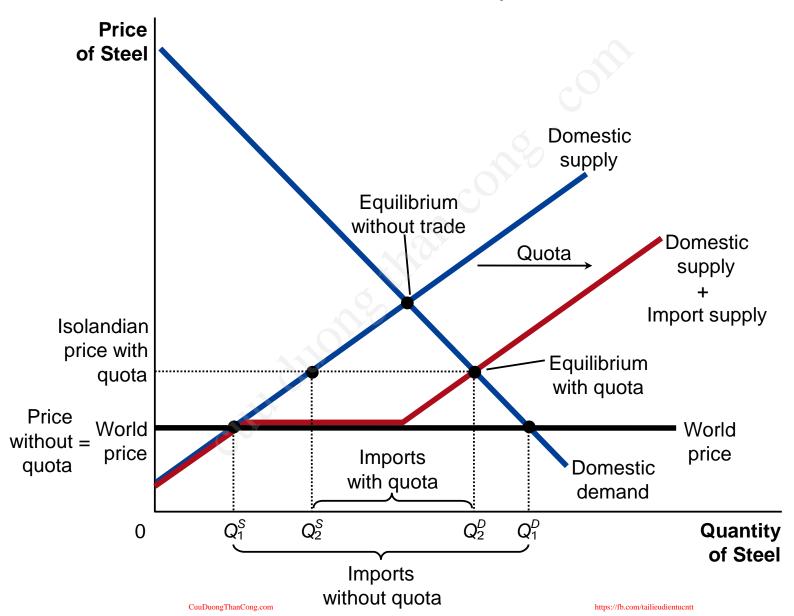




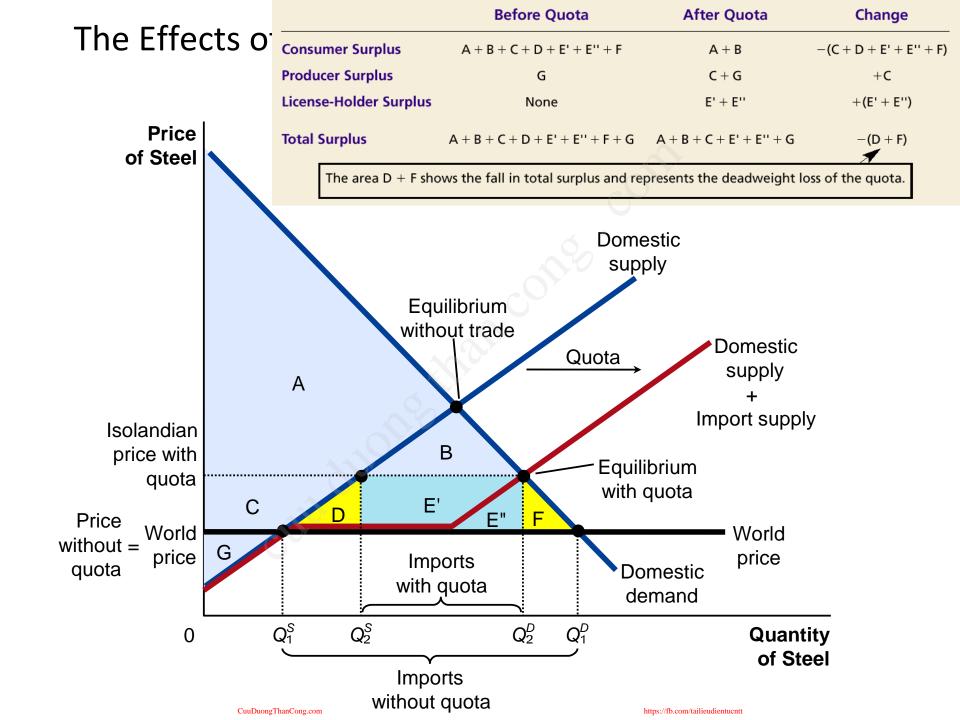
In its welfare effects, not all that different from the tariff

BONUS MATERIAL: THE IMPORT QUOTA

 An import quota is a limit—imposed by the domestic government—on the quantity of a good that can be produced abroad and sold domestically.



- Because the quota raises the domestic price above the world price,
 - domestic buyers of the good are worse off, and
 - domestic sellers of the good are better off.
- Import license holders are better off
 - they make a profit from buying at the world price and selling at the higher domestic price.



_	Before Quota	After Quota	Change		
Consumer Surplus	A + B + C + D + E' + E'' + F	A + B	-(C + D + E' + E'' + F)		
Producer Surplus	G	C + G	+C		
License-Holder Surplus	None	E' + E''	+(E' + E'')		
Total Surplus	A + B + C + D + E' + E'' + F + G	A + B + C + E' + E'' + G	−(D + F)		
The area D $+$ F shows the fall in total surplus and represents the deadweight loss of the quota.					

- With a quota, total surplus in the market decreases by an amount referred to as a deadweight loss.
- The quota can potentially cause an even larger deadweight loss, if a political mechanism such as lobbying is employed to allocate the import licenses.

Tariffs v. Quotas

- If government sells import licenses for full value,
 - the revenue would equal that from an equivalent tariff and
 - tariffs and quotas would have identical results.
- Otherwise, quotas are worse than tariffs

The Lessons for Trade Policy

- Both tariffs and import quotas
 - raise domestic prices.
 - reduce the welfare of domestic consumers.
 - increase the welfare of domestic producers.
 - cause deadweight losses.