PALLADIUM BOOKS PRESENTS:

WEAPONS, ARMOR & CASTLES OF THE

ORIENT

For use with any game system

By Matthew Balent

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For use with any game system



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Forward

This book is designed to be an introduction to the various weapons, armour, and defensive works found in oriental culture, although written with the fantasy gamer in mind. Anyone who is interested in these topics should find the book useful. Gamers who are interested in incorporating an oriental based culture in their campaigns will find ample material to get them going. The ideas presented in this book are somewhat of an outgrowth of those contained in The Palladium Book of Weapons & Armour. Although ownership of that book is not required further information is provided there for those interested.

Code Key

The following is a short description of a few of the weapons used by various oriental cultures. This is by no means a comprehensive list. Further examples can be found in <u>The Palladium Book of Weapons & Armour</u> Each of the weapons is given a set of numerical values which are explained below.

- Name Self Explanatory.
- Type The general group to which the weapon belongs. The groups are hafted (H), Knives (K), Miscellaneous (M), Pole Arms (P), Spears (Sp), and Swords (Sw).
- Swords The length of the weapon in meters.
- Mass The mass of the weapon in kilograms.
- Dex. A relative indication of how "quick" a weapon is based on balance, mass, etc. The lower this number the better.

Parry - A relative indication of how easily the weapon can parry other attacks. The higher the number the better,

Attack Types - Not all weapons were designed for the same purpose. The four basic attack types are cut, chop, thrust, and impact. The main differences between a cut and a chop are the sharpness and curvature of the blade.

Symmetry- Being that any weapon can be thrown, this is a relative indication of how effective the arm would be as a missile, the lower the number the better.

- Damage A relative indication of how much damage this weapon would cause to an "average" target.
- Other Notes of interest about the weapon, usually the geographical area of origin. A (T) in this column indicated the weapon is primarily used with two hands.

On all illusrations of edged weapons, (""") indicates which portion of the blade is sharp.

Notable Weapons of the Orient

Name	Туре	Length	Mass	Dex	Parry	Attack Types	Sym.	Damage
Bo	M	2.8m	1.4kg	1	2	Impact	2	2
Lananese	Staff (T)							

The use of wooden staves or clubs in combat is ancient indeed, for they represent a transition from unarmed to armed conflicts. The Japanese employed a number of staves of various sizes and construction; many were made almost entirely of iron or steel. Being relatively harmless, for training purposes, the techniques of staff combat were taught in almost every sword and spear school as a prelude to the use of the more deadly weapons. In many instances it is impossible to distinguish between staff and sword techniques.



Name	Туре	Length	Mass	Dex.	Parry	Attack Types	Sym.	Damage
Jitte	M	.5m	1.4kg	0	3	Thrust/impact	2	2
Japanese	Parrying We	apon						
Tjabang	м	.5m	1.1kg	0	3	Thrust/Impact	2	2
Malaysia	n Parrying W	eapon						

The origin of these weapons is a matter of debate but they are certainly designed to deprive an opponent of his sword. The techniques used ranged from parries against sword strikes to blows directed against the opponent's eyes, throat and abdomen. Mastery of these weapons depended heavily on being able to evade the enemy's sword, which in turn lead to parries, which in turn lead to counterstrikes.



Kusarigama M 2.2m 1.5kg 2 3 Chop 2 2 Japanese Chain Weapon (T)

Chain weapons, of which the Kusarigama is but one, were noted for their effectiveness in neutralizing an opponent's sword or spear. These weapons could also be used to entangle an opponent's legs to help unbalance him. Once the enemy had been neutralized by the chain, the weapon attached to it could be used to finish the job. Obviously, these weapons required a certain amount of space around the wielder and would be nearly useless in a confined area.



KAU SIN KE

VIEISTELLER

SA TJAT KOEN MALASIAN FLAIL A WEAPON SIMILAR IN USE AND CONSTRUCTION TO THE KAU SIN KE.



Name	Туре	Length	Mass	Dex.	Parry	Attack Types	Sym.	Damage
Masakari	Ĥ	.8m	1.9kg	1	2	Chop	2	3
lapanese Battle Axe	в							

The Japanese tended to use weapons which were designed to cut and thrust. Battle axes and other heavy smashing weapons were generally not used. As with many other weapons a chain was often attached to the handle in an effort to give the wielder an advantage over sword or spear armed foes.



Because of the rather strick rules which existed during the Feudal Period in Japan concerning swords, spears, and other obvious weapons many combat arts were invented which centered around the use of rather simple tools. The Kama was one such tool which was used as a weapon.







SABIT - TYPE AGRICULTURAL TOOLS / WEAPONS

MALAYSIAN "TIGER CLAW" WEAPONS

Name	Туре	Length	Mass	Dex.	Parry	Attack Types	Sym.	Damage
Pedang	Sw	.6m	.8kg	0	3	Cut/Chop/Thrust	3	2
Malaysia								
Arit	M	.4m	.3kg	1	1	Chop	2	1

The fighting arts of the Malaysian and Phillipine areas were often as well advanced as those employed in Japan and China. They employed swords and staves, knives and spears, as well as more exotic arms such as whipping chains in addition to their basic unarmed combat styles. As there was a certain amount of intermingling of all of the oriental cultures, weapons and martial arts from different areas often were found being used in countries other than their original.





TWO TYPICAL STYLES OF THE PEDANG SWORD



IN COMPARISON IS A CHINESE SWORD

OTHER MALAYSIAN SWORDS



ARIT

SAKIN AND SHEATH

1 : :

PARANG -TYPE SWORD





Pendang style of swords





PEUDEUENG

MALAYSIAN KNIVES



TWO SEWAR AND SHEATHS





Name	Туре	Length	Mass	Dex	Parry	Attack Types	Sym.	Damage
Katana	Sw	1.1m	1.4kg	1	3	Cut/Thrust	2	3
Japanese								
Wakizashi	Sw	.6m	.8kg	0	2	Cut/Thrust	2	2
Lapanese								

These two weapons made up a warrior's Daisho, or "The long and the short." As with other Japanese weapons there were a number of variations of these swords. The quality of the workmanship of these weapons is legendary and most often a warrior's swords were family heirlooms handed down from generations past. There was a rather formal etiquette centered around the sword. The manner in which they were worn, handled, the color of the scabbard, and numerous other things all had specific meaning. As with the other weapons there were innumerable styles of kenjutsu, the art of the sword. Variations often employed both swords at once (nito-kentutsu). An outgrowth of basic sword fighting was ialjutsu which was an art based on the initial drawing of the sword so that an often fatal blow could be delivered in one motion in conjunction with the draw. This art was particularly suited to an everyday armed encounter, as opposed to one on the battle field in which weapons were already drawn.

Like the Japanese, the Chinese also developed a variety of sword fighting styles. Usually the training which went into learning to use these weapons was based upon ideas learned from unarmed fighting styles.

THESE ARE ALL SINGLE EDGED BLADES



TRUX TAIL

TANTO DAGGER WITH HILT

COOTE EAWER CON

Name	Туре	Length	Mass	Dex	Parry	Attack Types	Sym.	Damage
Kawanga	M	5.0m	3.0kg	2	2	Impact	2	1
Japanese (Grapple (T)							

On the battlefield, the Japanese warrior usually carried a rather wide variety of equipment. One of these was the Kawanaga, which was attached to his belt. It could be used to tether a horse, secure a boat, secure prisoners, climb walls, or even as a weapon. The multi pointed grapnel on the end of the rope could be used to pull a foe off a horse or to pull at his legs when on foot to make him stumble.



Name	Type	Length	Mass	Dex.	Parry	Attack Types	Sym.	Damage
Yari	Sp	2.1m	1.9kg	0	2	Thrust	1	2
Japanese	Spear (T)							
Naginata	M	2.2m	2.2kg	1	2	Cut/Thrust	2	3
Japanese	Bladed Staff	(T)	10.0 C 2000 C 2000					

The Japanese employed a number of spears and staff weapons in their battles. Like all other Japanese blades, the business ends of these weapons were of the highest quality. The same care in forging which was given to sword blades also went into spear points. The shaft was generally reinforced at points which were put under pressure or were used in parries.

There were two major methods of using these weapons: Yarijutsu, the art of the straight spear, and Naginatajutsu, the art of the curved spear. Each method was employed using innumerable styles, and specialized styles centered around the specific variation of the weapon the fighter was using.







NUMEROUS CHAIN WEAPONS AND WEAPON ATTACHMENTS WERE USED BY THE JAPANESE.

· SEE KUSARIGAMA · AND KAU SIN KE

Name	Туре	Length	Mass	Dex.	Parry	Attack types	Sym.	Damage
Kiseru	M	.8m	1.5kg	0	2	Impact	2	2
Iron Japanese Smoki	ng Pipe					50.013 - 00055607		

This weapon is another example of a rather simple implement which when in the hands of a trained person could be devastating. This weapon could parry sword strikes as well as deliver effective counterattacks against a foe's head, neck, or abdomen due to its iron construction.



The Japanese used a number of "war fans" which could be either of the folding or non-folding type. These fans were originally used on the battle field to signal troops and to keep cool. When they began to be used as weapons and were constructed of metal, they became very popular. Because weapons were forbidden when one was called to the residence of one's master or a high noble, these items were often life-savers if the noble planned on your death, an occurrence which was not too uncommon.



IRON WAR FANS

Japanese Body Armor

Unlike in Europe, the basic form of Japanese armour remained essentially the same over the course of the years. The basic model used by the Japanese consisted of a number of pieces which protected the head, neck, shoulders, arms, chest, abdomen, and the legs. The complete unit tended to be worn by those individuals of high rank, while the poorer warriors settled for partial protection.

The basic model of Japanese armour placed emphasis on lightness and mobility. The heavy types of armour developed by the Europeans were considered a step backward in that they slowed down their wearer. The Japanese realized that a direct hit by an arrow or musket ball would penetrate any reasonable armour worn. The joints and spaces between plates were the normal points of attack in any fight and seeing that these were present in heavy as well as light armour, it is only logical that the Japanese opted to wear armour which did not impede a warrior's ability to evade strikes.

PARTS OF JAPANESE ARMOUR

When reading about Japanese armour it is all too easy to become lost in the maze of technical terms which were used. There are literally hundreds of variations in armour which the Japanese had names for. Every method of lacing, every pattern of mail, all had different names. The following is a short description of the major parts of a suit of Japanese armour listed as they might be put on when preparing for a battle.

The warrior first began with a loincloth (fundoshi). A shirt (shitagi) resembling an ordinary kimono was put on next and secured with a belt (obi). A pair of trousers (kobakama)was put on next. A pair of socks (tabi), made of leather or cotton, with a division for the big toe were put on next. Over the socks were worn leggins (kyahan) of cotton or linen. Sandals (waraji) were put on over the tabi and especially in the case of lower ranking warriors, were made of cotton fiber, or palm fiber. Officers often had sandals made of iron or hard leather plates linked together by mail.

The lower legs were protected by a pair of thin guards called sune-ate. These were generally made of metal or hard leather sewn onto a padded foundation. Some were of metal only, and were connected together by mail. Either a plate covering the kneecap was attached to the sumeate or the central vertical strips were extended over this part of the leg.



A garment resembling an apron was put on next. Called a haidate, this protected the front of the upper legs and was slit up the middle. The haidate could be made of heavy cloth, leather, or metal; the lower edges were generally reinforced with metal or whale bone. It was tied around the waist by cords which were secured in the front. Next a pair of leather gloves (yugaky) were put on. Over these gloves were worn a garment called a kote. In general the kote consisted of a close fitting sleeve of padding to which were attached a number of armour plates. This sleeve covered the shoulder, arm and back of the hand. The metal plates were attached together by mail. The inside of the arm was naturally less protected than the outside, and it fell to the skill of the warrior to protect this weak spot from spear thrusts or sword cuts. The armpits were protected by the wakibiki which

The armpits were protected by the wakibiki which was contructed of padded mail reinforced by metal splints. Now the central element of the suit of armour was put on. The do or chest protecter was the most important piece in the whole suit. There is an endless variety of these chest protectors which were used at various times in Japan. They were generally made of plates laced or riveted together to cover the four sides of the body from the neck to the upper thighs. The entire garment hung on the body from padded shoulder straps called kata-ate. The two major types of do were those which opened in the back haramaki-do and those which opened at the side do-maru. The better suits of armour had a number of specialized plates which protected the armpits as well as the opening in the back if any.

The warrior then put on an outer belt, uma-obi which also served to secure his swords.

The characteristic shoulder guards were put on next.

Called sode, these pieces were generally made of small scales bound tightly together with silk cords. Underneath the scales was a foundation of leather. The general shape was either retangular or square.

Next the warrior would secure his daisho or "the long and the short". The daisho consisted of a long sword, katana or tachi, and a short sword wakizashi. In early times a large sword, called nodachi might also have been worn. This was usually strapped to the back.

To protect his neck the warrior would then put on a gorget or nodowa. These were generally made of scales or plates laced together over a U shaped plate.

The head of a warrior was protected by an elaborate helmet which consisted of a number of different elements. The central dome, hachi, followed the general contour of the head. Upon the helmet there was usually a crest or some other identifying symbol. Attached to the basic helmet was a rather large series of plates designed to protect the neck and side of the head. Called the shikoro, this piece consisted of a number of metal or leather plates laced together, which hung down from the hachi. As with the other parts of the Japanese armour, there are hundreds of different designs and variations of the basic helmet.



Finally, to protect his face high ranking warriors usually wore a mask of iron, steel, or lacquered leather. These masks (mempo) could protect from forehead to chin or only a particular portion of the face. They were generally fastened to a small neck guard which hung over the nodowa. The masks were generally patterned to represent men, demons, or animals. They were generally padded on the inside to give a measure of comfort to the wearer.

EXAMPLES OF MEMPO PROTECTIVE FACE MASKS











MEMPO ARE MADE OF IRON, STEEL, OR LACQUERED LEATHER.



HOATE TYPE







OTHER FORMS OF ARMOUR

Lower warriors usually could not afford an elaborate suit of armour as described earlier. They were usually content to outfit themselves with as much armour as they could afford, in an effort to prevent themselves from being slaughtered by the more heavily armoured warriors.

ered by the more neavily armoured warriors. One piece of armour usually worn by the lower ranked warriors was the jingasa. This was a flat, conical helmet made of steel, iron, or copper. It was generally tied under the chin.

Because of the modular nature of Japanese armour, it was rather easy to wear only part of the complete suit. Often warriors went into battle with only the chest protector. Of course if one was victorious in battle, there were ample opportunities to loot armour from the dead to increase one's own protection.

In addition to the rather heavy armour described earlier, there were also suits of light mail which were worn under normal clothes. This would enable a warrior to go about with some degree of protection without arousing suspicion. The Ninja and warrior monks favored this light armour.

PIOLINE

TOP VIEW

EXAMPLES OF JINGASA HELMETS











ARMOUR TYPE	CUT RF	CHOP RF	THRUST RF	IMPACT RF	DEX	MASS
Thin Cloth	1	0	0	0	0	1.3kg
Medium Cloth	2	0	0	0	0	2.5kg
Heavy Cloth	3	1	1	1	1	3.7kg
Soft Leather	2	1	1	1	1	3.7kg
Hard Leather	3	2	3	1	1	5kg
Quilt	3	1	2	2	1	5kg
Padded	4	1	2	3	1	5kg
Woven Cord	4	2	3	2	2	5kg
Heavy Cloth Ringmail	5	3	3	1	1	7.5kg
Soft Leather Ringmail	4	3	3	1	1	7.5kg
Hard Leather Ringmail	5	4	5	1	2	10kg
Quilt Ringmail	5	3	4	2	2	10kg
Studded Heavy Cloth	3	1	1	1	1	6kg
Studded Soft Leather	3	1	1	1	1	6kg
Studded Hard Leather	4	2	3	1	2	7.5kg
Hard Leather Jazeraint	7	6	4	1	2	10kg
Hard Wood Jazeraint	6	5	4	1	2	10kg
Horn/Bone Jazeraint	8	7	6	1	2	15kg
Metal Jazeraint	9	8	8	1	2	20kg
Mail	7	6	2	1	1	20kg
Combined Mail	8	7	5	1	2	22kg
Metal Brigandine	9	9	8	2	3	22kg
Laminated	9	9	9	1	2	20kg
Metal Lamellar	9	9	8	1	3	18kg
Plate	11	11	11	1	2	25kg

ARMOUR TYPE DESCRIPTIONS

Light Cloth is equivalent to linen.

Medium Cloth is equivalent to denim.

- Heavy Cloth is equivalent to two or three thicknesses of medium cloth.
- Soft Leather is equivalent to the outer covering of a modern day leather jacket.
- Hard Leather is equal to approximately five millimeters of leather.
- Quilt Armour consists of cotton or some other soft material which is sandwiched between two layers of cloth.
- Padded Armour generally consists of felt or some other thick cloth about three to eight centimeters in thickness.

Woven Cord Armour resembles modern day macrame-

- Ring Mail is simply metal rings which are sewn onto a suitable backing material (leather, cloth, etc.).
- Studded Mail consists of metal studs attached to a backing cloth or leather.
- Jazeraint Armour also known as <u>Scale Armour</u>, consists of scales of various sizes sewn or riveted onto a suitable backing.
- Mail consists of small metal rings interconnected together to form a sort of fabric of metal.
- Combined Mail consists of small pieces of metal interspaced with sections of normal mail.
- Brigandine Armour wiched between two layers of leather. The outer appearance of this armour resembles studded leather.
- Laminated Armour consists of small metal strips which are overlapped and articulate upon each other.
- Lamellar Armour, also known as <u>Splint Armour</u>, consists of small pieces of armour which are laced together. The size of the pieces depend on the portion of the body they are to protect.
- Plate Armour consists of large pieces of metal which are either worn over other armour or attached to one another by a series of straps, buckles, or lacing.

GENERAL DESCRIPTION OF ARMOUR TYPES

In order to give a better understanding of the various types of armour used in the orient, the following is a brief description of each basic type. Each armour type is given a set of various numerical values. They are explained as follows:

- Cut RF A relative indication called <u>Resistance Factor</u> of how well the armour protects against cut attacks.
- Chop RF A relative indication of how resistant this type of armour is to chop attacks.
- Thrust RF A relative indication of how resistant this type of armour is to thrust attacks.
- Impact RF A relative indication of how resistant this type of armour is to impact attacks.
- DEX An indication of how much a suit of this armour would slow a character down. The higher this number the slower the character would move due to restricted flexability, higher mass, etc.
- mass The mass of a suit of this type of armour based on the wearer being 180cm (5'10") tall and 80kg (1751bs) in mass.

The main differences between a cut attack and a chop attack are the sharpness and curvature of the weapon's blade. If one general armour "class" is desired, the "chop" rating may be used.



WARRIOR IN FULL ARMOUR (YOROI)



DF

0

14

CODE LAMINATED METAL

IT IT IT 15 10 10

PLATE ARM GUARDS

all'

DAISHO

HAIDATE LAMINATED METAL

10

RF

2

For further information on these types of armour please refer to The Palladium Book of Weapons and Armour.

STEPS IN DONNING JAPANESE ARMOUR









SHORT FUNDOSHI

SHITAGI AND OBI

KOBAKAMA

TABI SPLIT TOE BOOT









KYAHAN

WARAJI SANDALS

SUNE-ATE SHIN GUARDS

HAIDATE THIGH GUARDS







CHAIN MAIL SLEEVES

KOTE ARMOUR SLEEVES

WAKIBIKI





DO





SODE SHOULDER GUARD



DAISHO WAKIZASHI AND KATAWA SWORDS



NODOWA NECK GUARD AND HACHIMAKI



MEMPO FACE MASK AND KABUTO HELMET

WARRIOR IN DO-MARU LAMELLAR COMBINED ARMOUR



ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Metal Lamellar	9	9	8	1
Laminated	9	9	9	1
Combined Mail	8	7	5	1
Ribbed Plate	12	12	12	1

SOLE LAMINATED ARMOUND DRAGNY FLY KNOT

ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Laminated over Com-				
bined Mail	17	16	14	2
Mass 18kg.				

ANOTHER TYPE OF LAMELLAR COMBINED ARMOUR



The Same Armour Values as Lamellar Combined.

EXAMPLES OF KOTE ARMOURED SLEEVES

.





These pieces consist of mail interspaced with metal plates (combined mail). The mail is attached to a fabric backing to prevent chafing. The elbow, elbow joint, wrist, hand, and shoulder were typical areas of reinforcement.



ARMOUR	VALUES

.

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Soft	2	1	1	1
Leather				
Combined Mai	18	7	5	1
Laminated (breast plate)	9	9	9	1
Laminated over combined Mail	17 I	16	14	2
Mass: 8kg.,				

WARRIOR IN HARAMAKI-DO



ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Metal	9	9	8	1
Lamellar		2.2		
Combined	8	7	5	1
Mail				
Metal	17	15	13	2
Jazeraint ov	/er			
Combined M	lail			
Mass: 10kg.			22011-001	



	ES
--	----

Туре	(Cut RF	Chop RF	Thrust RF	Impact RF
Mail		7	6	2	1
Combined	Mail	8	7	5	1
Mage: Oka					

Mass: <u>ykg.</u> This armour could be worn under ordinary cloths for protection when on secret missions or when the impression of being unarmoured was important.

FOOT SOLDIER WEARING HARA-ATE





ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Laminated	9	9	9	1
Combined Mai	18	7	5	1
Soft Leather	2	1	1	1







REMAINDER OF THIS SUIT IS MADE OF BRIGANDINE.

ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Metal	9	9	8	2
Brigandine				
Laminated	9	9	9	1
Double Layer	18	18	16	4
Brigandine				
(Shoulder Are	а)			
Mass: 22kg.				

ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Cloth	3	1	1	1
Studded				
Brigandine				
over Studded	12	10	9	3
Cloth Mass: 6kg.				

Chinese & Asian Armor

The armour of the Chinese remained relatively unchanged throughout the course of the ages. The Chinese employed various forms of padded ring, scale, and brigandine armour. Their best suits are of brigandine, which consists of two pieces of cloth with small metal plates between them. Important points on the body, such as the chest and knees, were frequently reinforced by metal plates.

Chinese helmets were made of steel and had brigandine neck guards attached to them.

In some instances armour consisted only of padding which was fitted with a number of gilt rivets. In this form the suit resembled brigandine but was actually much less encumbering in addition to being less protective.

The Chinese also used armour which appeared to be an ordinary garment, such as a shirt or jacket, but actually had overlapping metal plates attached to the inside.

Like most cultures, the Chinese had a number of pieces of armour which could be added or deleted depending upon the degree of protection wanted. Large shoulder guards of metal and leather could be worn. Shirts of brigandine could be added when fighting on foot. Forearm guards of laminated metal were also used.



ENTIRE SUIT IS OF STUDDED HEAVY CLOTH. ONLY SHOULDER AND NECK REINFORCED WITH BRIGANDINE.





ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Padded	4	1	2	3
Plate	11	11	11	11
Mass: 5kg.				

KOREAN ARMOUR

KOREAN ARMOUR

Korean armour was generally similar in construction to that of the Chinese. Wealthy warriors often were adorned in suits which were very elaborately decorated. The lower classes often wore heavily padded body armour up to four centimeters thick, which left the arms and legs bare. Hardened leather jazeraint coats were also worn.

In periods of conflict with Japan, a number of Japanese armours were also worn.

ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Metal Jazeraint	9	9	8	1
St udded Hard Leather	4	2	3	1
Plate	11	11	11	1
Mass: 9kg.				





MALAYAN ARMOUR

In general, these people wore little or no armour. Some wore simple hides hanging down in front and back as protection from blowpipe darts. The Moros of the Phillippines wore armour made of hides, woven cord, or wooden scales. Armour made of brass or horn plates connected together by brass mail was also used, but these were rare and expensive.

ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Bark	6	5	4	1
Jazeraint				
Mass: 4kg.				-



ARMOUR VALUES

Туре	Cut RF	Chop RF	Thrust RF	Impact RF
Hide	3	2	3	1
(Hard Leathe	r)			
Padded	4	1	2	3
Mass: 2kg.				

CASTLES



Castles of Japan

JAPANESE FORTIFICATIONS

Japanese fortresses were generally built on top of mountains. The castle was either put atop a flat topped mountain or a leveled area near the top of the mountain. The castle site was then protected by large stone walls. Towards the end of the sixteenth century towers, or donjons, were added as well. These mountain castles, or yamajiro, were extremely difficult to attack.

Because the only effective means of taking a castle of this sort was by siege, there were additional buildings for the storage of weapons and food in the event of an attack. Often the donjon had a well for water and a kitchen for preparing food.

It was not too common for there to be a large enough town near these mountain castles to support the garrison. For this reason small towns sprang up at the foot of the castle's mountain. These towns were inhabited by the troops and their families, as well as the various merchants, shopkeepers, etc., which catered to them. These castle towns were called johamachi.

The rough terrain which was good for defensive purposes was generally not suitable for the development of towns however. For this reason castles began to be situated on hills in the middle of the warlord's (daimyo) territory. There were called hirayamajiro.

Later, when wars became less and less frequent, the castle became more a political center from which to rule than a military base. The castle was now a symbol of authority and power. Castles were now built in open areas, wherever the political and economic life of the province was concentrated. These flatland castles were called hirajiro.

In general, the Japanese warrior did not plan to fight from withing the confines of the castle; he thought that fighting from outside the castle to be the best defense. Many daimyos were even unwilling to fight within the castle itself. If their compounds were successfully entered by attacking troops, they usually chose to die honorably by their own hand. The donjon was usually the site of ritual suicide if the defense was unsuccessful.

The buildings on a castle site were arrainged so that it would be difficult for an attacker to storm the site. At the heart of the whole structure was the main compound (the hommaru compound) which contained the donjon and the daimyo's residense. Subsidiary compounds were added on around the main compound. Stone walls and moats were placed around these compounds either in a concentric or spiral pattern so that the whole area was protected. Turrets were built on the walls with the largest being on the corners. The strong fortified outer walls were built of stones with a steep slope.

Inside the compound, the pathways to the donjon often took on a maze-like appearance. Unexpected turns, dead ends, and gates would impede the attack while the defenders could fire arrows or drop stones down from the walls.

Often the town outside the castle was also laid out so that there was no clear-cut path to the gates. Blind alleys and unexpected obstructions would impede any advance. In general the towns around the castles were inhabited by many of the diamyo's warriors.

JAPAN



THE MAJOR COMPONENTS OF JAPANESE CASTLES

GATE TYPES

INSET GATE





TURRET GATE AS FOUND AT HIMEJI CASTLE KORAI GATE





TYPES OF STONE WALLS



RANDOM

PATCHY





STONE DROPPING PROJECTION

> PARTS OF A DONJON CASTLE TOWER

> > MAIN DONJON (TOWER)



....

HIMEJI CASTLE






OSAKA CASTLE PLAN



OSAKA CASTLE AS DEPICTED IN THE 17+h CENTURY





PERSON AT GATE WAY TO INDICATE SCALE

GENERAL GROUND PLAN OF HIMEJI CASTLE AND SURROUNDING TOWN.



HIME JI DONJON . FRONT VIEW





EAST-SIDE VIEW OF HIME JI CASTLE

HIME JI CASTLE GROUND PLAN







GROUND PLAN OF DONJON COMPLEX OF HIMEJI CASTLE Co. 1609



VIEW OF THE GREAT WALL OF CHINA

CHINA

CHINESE FORTIFICATIONS

In China the majority of the major cities were heavily fortified by walls and towers, some of which make the largest European castles seem insignificant. Although many of these fortifications have been dated to the Ming Dynasty (1368-1644) they were certainly only a renewal of prior constructions. In general, the walls are built of brick which is laid down in many courses. The base of the wall was frequently strengthened by a plith of stone. Often large towers are placed along the walls to aid in defense.

The base of these walls were often from 15 to 25 meters thick. They rose to great heights, up to 25 meters, and were topped by crenellated ramparts. Gateways through the walls are usually made of heavy timbers. In contrast to the immense walls these doors seem very weak. To counter this large gatehouses were built which as Marco Polo related in the end of the thirteenth century, could hold up to one-thousand men. THE GREAT WALL OF CHINA

Perhaps the most famous example of defensive fortification is what is known as The Great Wall of China. It can safely be said that this massive piece of architecture outshines almost every other single structure built by human hands.

The Great Wall was not simply put up overnight. When the country was united at the onset of the Chhin Dynasty (221-207 B.C.), emperor Shih Huang Ti was intent upon stabilizing the territory by keeping the nomadic huns out. Actual construction began around 217 B.C. and utilized to a large extent, earlier existing ramparts which had been built in the earlier provinces. As the wall exists today, it is estimated to cover 3930 miles (6325 kilometers) with all of the various side-branches figured in. Many of the various loops and offshoots were constructed in subsequent centuries after the original line was built.

The wall achieved its purpose of keeping out the nomads by restricting the number which could pass this border. By eliminating the tactic of large numbers of horsemen sweeping down out of the steppes and sacking cities and towns, the nomadic tribesmen were eliminated as a major threat. If a large concentrated attack was made to capture a section of the wall or knock a breach in it, enough time could be bought by the defenders to enable reinforcements to arrive. The wall was much like a breakwater against which waves of nomads were broken and contained. It is theorized that the wall "channelled" the nomadic tribesmen to the west and into Europe.

Naturally the wall had its ups and downs. After the Chhin and Han Dynasties (3rd. century B.C. to 3rd century A.D.), there was little upkeep and maintenance. During the Wei, Chhi, and Sui Periods there was a major renovation and reconstruction (6th. and 7th. centuries A.D.). However, after this, again numerous centuries passed with no upkeep.

In general the wall was built upon a granite block base. The walls themselves were constructed of brick or stone with cores of rubble. There are usually eight to twelve towers per mile anywhere from 100 to 200 yards apart.





CROSS SECTION OF THE GREAT WALL



WALLS OF THE CITY OF TSINAN

> HEIGHT APPROXIMATELY ID METERS (32 ft)



Inner view of city walls of Sian showing the ramps the defenders used to climb to the ramparts. Total height 9 meters.





Gate along the inner line of defensive walls in Northern China.

PLAN OF PEKING



WALLS AROUND TATAR CITY 10-12 METERS HIGH

WALLS AROUND CHINESE CITY 5-B METERS HIGH

THE WALLS VARY IN THICKNESS FROM 12 - 21.3 METERS



PEKING CATE FROM CHINESE CITY TO TARTAR CITY





THE CENTRAL GATE IN THE WEST WALL OF THE CITY OF TARTAR.



Peking

Barbican of the central gate in the west wall of the city.

Total height of wall approximately 10 meters.

Barbican 20 meters.

FLOOR PLAN OF THE ABOVE BARBACAN



TOWER





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