



### Senarai Pembekal Sistem Kekuda Bumbung Bil. 1/2014

#### 1. Timber Truss

No	Name and Address of System Provider	Material Properties	Type of Bracings	Protective Coating for Metal Connectors	Approval Status
1	<b>MITEK ASIA SDN. BHD.</b> Lot 15, Jalan Sultan Mohamad 5 Kawasan Peindustrian Bandar Sultan Sulaiman 42000 Pelabuhan Kelang, Selangor Tel : 03 – 3176 7473 Fax: 03 – 3176 7640	Hardwood Timber Strength Group SG1-SG4  Toothed Metal Connectors Min.Ult. Tensile 320 MPa Min.Yield Stress 250 MPa	Steel Brace (Speedbrace) conforming to AS 4440-1997 With MiTek 35 x 2.8 nails	Hot-dipped Zinc coated or Aluminium / Zinc coated	<b>Temporary Suspended Effective on 26 Mei 2014</b>
2	<b>MULTINAIL ASIA SDN. BHD.</b> Lot.15, Jalan Bs 7/20 Taman Industries Bukit Serdang 43300 Seri Kembangan, Selangor Tel : 03 – 8942 3099 Fax: 03 – 8942 5686	Hardwood Timber Strength Group SG1-SG4  Toothed Metal Connectors Min.Ult. Tensile 320 MPa Min.Yield Stress 250 MPa	Steel Brace (Speedbrace) conforming to AS 4440-1997 With Multinail 35 x 3.0 flat head nails	Hot-dipped Zinc coated or Aluminium / Zinc coated	
3	<b>NAIL-PLATE SDN. BHD.</b> 13-A, Jalan SS 14/1A 47500 Subang Jaya, Selangor Tel : 03 – 5631 9698 Fax: 03 – 5637 2433	Hardwood Timber Strength Group SG1-SG4  Toothed Metal Connectors Min.Ult. Tensile 320 MPa Min.Yield Stress 250 MPa	Timber brace (Hardwood) SG1-SG4 conforming to Australian Standard	Hot-dipped Zinc coated or Aluminium / Zinc coated	



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**2. Cold Formed Steel Truss**

No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
1	<b>UAC STEEL SYSTEM SDN. BHD.</b> Lot 34 Jalan Beliong 15/11 Section 15, P.O. Box 7796 40000 Shah Alam, Selangor Tel : 03 – 5513 1133 Fax: 03 – 5511 3699	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) ASTeks Red Point (Self-drilling Screws)  b)A2S (Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
2	<b>NS BLUESCOPE LYSAGHT MALAYSIA SDN. BHD.</b> 6,Persiaran Kemajuan Seksyen 16 P.O.Box 2222, Pusat Bisnes Bukit Raja 40800 Shah Alam, Selangor Tel : 03 – 5520 6600 Fax: 03 – 5520 6601	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) ASTeks Red Point (Self-drilling screws)  b)A2S (Class 2) & A3S (Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
3	<b>LITEFRAMES SDN. BHD.</b> 190, Jalan Nilai 3/18 Nilai 3 Industrial Park 71800 Nilai, Negeri Sembilan Tel : 06-799 2622 Fax: 06-799 5122	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) ASTeks Red Point (Self-drilling screws)  b)A2S (Class 2) & A3S (Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Conditional Approval (Approval by CKASJ as per project basis) Effective on 16 June 2009</b>
4	<b>TONG YONG METAL SDN. BHD.</b> Lot 5781 & 5782 Taman Selamat Alma 14000 Bukit Mertajam Seberang Perai Tengah Pulau Pinang Tel : 04 – 552 3086/ 3089 / 3090 Fax: 04 – 552 3087	<b>Rectangular Hollow Section, RHS (with flat surfaces) &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 0.6mm : Main Truss Member (RHS) Min. Thickness 1.0mm : Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) MKT Hexagon Washer Head (Self-drilling Screws)  b)M2 (Class 2) & M3(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Conditional Approval (Approval by CKASJ as per project basis) Effective on 30 October 2013</b>



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**2. Cold Formed Steel Truss**

No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
5	<b>LOTEZ ENGINEERING SDN. BHD.</b> B 7-3-2 Block B, Megan Corporate Park Taman Desa Petaling 57100 Kuala Lumpur Tel : 03 – 9057 6691/ 6695 Fax: 03 – 9057 6617	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)Ocean DX 520 HO C2 (Self-drilling Screws)  b)DX (Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Temporary Suspended Effective on 30 October 2013</b>
6	<b>KEMUNING STRUCTURES SDN. BHD.</b> Lot 3801, 6 1/4 Miles, Seksyen 32 Jalan Klinik, Bukit Kemuning 40460 Shah Alam, Selangor Tel : 03 – 5162 1688 Fax: 03 – 5162 4286	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)Ocean RG2-DX3 4.8-16 (Self-drilling Screws)  b)DX(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
7	<b>VISAGE INDUSTRIES SDN. BHD.</b> Plot 162A, Lrg Perindustrian Bukit Minyak 11 Kawasan Perindustrian Bukit Minyak MK 13 14100 Bukit Minyak, Penang Tel : 04-508 1191 Fax: 04-508 2191	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)MKT (Self-drilling Screws)  b)M2 (Class 2) & M3(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	



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No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
8	<b>COOLDEC METAL INDUSTRIES SDN. BHD.</b> 8 & 10, Jalan Pala 10, Kawasan Industri Ringan Permatang Tinggi, 14000 Bukit Mertajam, Penang Tel : 04-5885 198 / 398 Fax: 04-5889 598	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)MKT (Self drilling Screw)  b)M2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
9	<b>AJIYA STI SDN. BHD.</b> No.6, Jalan PPU 3 Taman Perindustrian Puchong Utama 85000 Puchong, Selangor Tel : 03 – 5121 0011 Fax: 03 – 5121 0111	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Fast Mark (Self-drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Temporary Suspended Effective on 22 May 2013</b>
10	<b>BRICKWELL ENGINEERING SDN. BHD.</b> Lot 4135-4137 Kaw. Perindustrian Pengkalan Chepa 16100 Kota Bharu, Kelantan. Tel : 09 – 771 3677 / 3678 Fax: 09 – 771 3670	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Fast Mark DS 520 HO (Self-drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
11	<b>SUPERSPAN SDN. BHD.</b> No. 22, Jalan Batai Laut 4 Kawasan 16, Taman Intan 41300 Klang, Selangor Darul Ehsan Tel : 03 – 3344 5748 Fax: 03 – 3343 0724	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) ASTeks Red Point (Self-drilling Screws)  b)A2S(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	





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No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
12	<b>ECOSTEEL SDN. BHD.</b> Lot 825, Block 7 Demak Laut Industrial Park 93050 Kuching, Sarawak Tel : 082 – 439 368 Fax: 082 – 433 063	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point A 12-14x20 HWF (Self-drilling Screws)  b)A2S (Class 2) & A3S (Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
13	<b>LAVENDA BUILDING SYSTEM SDN. BHD.</b> No. 2, Jalan Mandolin 33/5 Premier Industrial Park, Seksyen 33 40400 Shah Alam, Selangor Tel : 03-5614 3670 Fax : 03-5614 3671	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)TENN (Self-drilling Screws)  b)F2(Class 2 & F3(Class 3)	Hot-dipped Zinc Coated	
14	<b>MULTI RESOURCES SDN. BHD.</b> Lot 1311, Pending Industrial Estate P.O Box 1663 93734 Kuching, Sarawak Tel : 082-331 267 Fax : 082-487 301	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)MTEK Screw #12-14x 23mm (Self-drilling Screws)  b)MT(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
15	<b>BRISTEEL CORPORATION SDN. BHD.</b> 7A, Lorong Anggur Visa Industrial Estate Off Jalan Kolombong 88450 Kota Kinabalu, Sabah Tel : 088-382 811 / 15 Fax : 088-382 813	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)MKT DS 520 HO DSF620HO (Self-drilling Screws)  b)M2(Class 2) & M3(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	



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No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
16	<b>HAI-POINT STEEL SDN. BHD.</b> No. 593, Jalan Pinang Jaya Bukit Pinang 06200 Kedah Darul Aman Tel : 04-7142487, 7143487, 7144487, 7146487, 7176388 Fax : 04-7142368	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)MKT DSM516 HO #10x5/8 (Self-drilling Screws)  b) M2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
17	<b>NS BLUESCOPE LYSAGHT SABAH SDN. BHD.</b> Lorong Kurma, Off Jalan Kolombong 88450 Kota Kinabalu, Sabah Tel : 088-445 161 Fax : 088-421 178	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point A3#12-14x 20HxW (Self-drilling Screws)  b)A3(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
18	<b>CITY TOP ENTERPRISE SDN. BHD.</b> Lorong Burung Keleto Mile 5 ½, Inanam, Jalan Tuaran 88450 Kota Kinabalu Sabah Tel : 088-423 333, 088-429 199 Fax : 088-429 200, 088-436 617	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) ASA Fastener DX 620 HO CR (Self-drilling Screws)  b)PX(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
19	<b>SRT BUILDING SYSTEMS SDN. BHD.</b> 35 & 35A Lintasan Perajurit 17 Taman Perdagangan & Perindustrian Ipoh 31400 Ipoh Perak Darul Ridzuan Tel : 05-542 3041 Fax : 05-542 3042 & 05-542 3043	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)MKT Hexagon Washer Head #10-24x16 mm (Self-Drilling Screws)  b)M2(Class 2) & M3(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Conditional Approval (Approval by CKASJ as per project basis) Effective on 23 January 2013</b>



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No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
20	<b>NS BLUESCOPE LYSAGHT (SARAWAK) SDN. BHD.</b> Lot 610, Section 66 Pending Industrial Area P.O. Box 1007 93720 Kuching Sarawak Tel : 082-333 621 Fax : 082-483 486	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)TENN DX Hexagonal Wafer Head (Self-drilling Screws)  b)J3(Class 3)	Hot-dipped Aluminium / Zinc Coated	
21	<b>YUNCO BUILDING SYSTEMS SDN. BHD.</b> Lot 712, Block 7, Demak Laut Industrial Park 93050 Kuching Sarawak Tel : 082-432 880 Fax : 082-432 894	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point A2S 12-14x20 HWF (Self-drilling Screws)  b)A2S(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
22	<b>COOLDEC INDUSTRIES SDN. BHD.</b> No. 11759, Miles 3 Jalan Apas, Lorong Sri Mawar 91000 Tawau Sabah Tel : 089-911 375/175 Fax : 089-911 135/607	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)Chin Well DS-HO#10 x 5/8 (Self-Drilling Screws)  b)☞ (Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
23	<b>ROLFOM INNOVATION SDN. BHD.</b> No. 126, Jalan P/AM 1/1 Arab Malaysian Industrial Park 71800 Nilai Negeri Sembilan Tel : 06-799 7296 Faks : 06-799 5296	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Fast Mark DS 520 HO (Self-Drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	



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No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
24	<b>HS HENG SENG METAL SDN. BHD.</b> PT 1431, Seksyen 39 Kawasan Perindustrian Pengkalan Chepa II Mukim Kemumin 16100 Kota Bharu Kelantan Darul Naim Tel : 09-773 6233, 09-773 0132, 09-773 0136 Faks : 09-773 6135	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point (Self-drilling Screws)  b)A2S(Class 2) & A3S(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
25	<b>JUARA STEEL SDN. BHD.</b> Lot 10463, Batu 5 Jalan Kampung Jawa 41000 Klang Selangor Darul Ehsan Tel : 03-5161 8005 Faks : 03-5162 1372	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point (Self-drilling Screws)  b)A2S(Class 2) & A3S(Class 3)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
26	<b>ARI TIMUR (KB) SDN. BHD.</b> Lot 1306 Kawasan Perindustrian Pengkalan Chepa II 16100 Kota Bharu Kelantan Tel : 09-774 5946 Faks : 09-774 6946	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Fast Mark (Self-drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
27	<b>SUPER GLORY INDUSTRIES SDN. BHD.</b> Lot 921, Blok 26, KLD Tanjung Kidurong Road P.O. Box 1954 97000 Bintulu Sarawak Tel : 086-251 119 / 086-251 441 Faks : 086-251 444	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point A2S 12-14x20 HWF (Self-drilling Screws)  b)A2S(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	



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No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
28	<b>THUNG HING INDUSTRIAL TRADING SDN. BHD.</b> Lot P.T 1351, Jalan Mohd Taib Kawasan Industri Sg. Choh 48000 Rawang Selangor Darul Ehsan Tel : 603 – 6099 9999 Faks : 603 – 6099 9922	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Ocean #10-16X19 (Self-drilling Screws) b)DX(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	
29	<b>6 CONNECTIONS SDN. BHD.</b> Lot PTD 12537, LB (2) Batu 19 Jalan Segamat 84900 Tangkak, Johor Tel : 606 – 978 1107 Faks : 606 – 978 3153	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)TENN (Self-drilling Screws) b)JX(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Temporary Suspended Effective on 30 October 2013</b>
30	<b>MINE TECH GLOBAL SERVICES (M) SDN. BHD.</b> Lot 3736, Kg. Labuhan, Kerteh 24300 Kerteh, Kemaman Terengganu Tel : 609 – 826 3050 Faks : 609 – 826 4042	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Fast Mark DS 520 HO (Self-drilling Screws) b)F2(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Temporary Suspended Effective on 26 Mei 2014</b>
31	<b>RONAS NIAGA ENTERPRISE SDN. BHD.</b> Plot 7, Jalan PBR 33, Kawasan Perindustrian Bukit Rambai, 75400 Melaka Tel : 06 – 351 5877 Fax : 06 – 351 6877	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)TONG MUI DS 520 (Self-drilling Screws) b)T.M(Class 2)	Hot-dipped Zinc Coated or Aluminium / Zinc Coated	<b>Temporary Suspended Effective on 26 Mei 2014</b>



**Senarai Pembekal Sistem Kekuda Bumbung Bil. 1/2014**

**2. Cold Formed Steel Truss**

No	Name and Address of System Provider	Material Properties	Approved Fastener a) Types b) Head Marking (Class)	Minimum Corrosion Protection	Approval Status
32	<b>DANCAST SDN. BHD.</b> Plot 18, 19, 20 & 21 Kawasan Perindustrian Bandar Darul Aman 06000 Jitra, Kedah Darul Aman Tel : 04 – 917 6437 Fax: 04 – 917 6324	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)Fast Mark DS 520 HO (Self-drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated  or Aluminium / Zinc Coated	
33	<b>DUNGUN INTERGRADE SDN. BHD.</b> Lot 6069, Batu 5,Jalan Paka, 23000 Dungun, Terengganu, Terengganu Darul Iman Tel : 09 - 8422710 Fax : 09 - 8422712	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a) Fast Mark DS 520 HO (Self-drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated  or Aluminium / Zinc Coated	<b>Temporary Suspended Effective on 26 Mei 2014</b>
34	<b>INTECHMAN SDN. BHD.</b> No A21, Kawasan Industri Mara (KIM) KM 13 Off Jalan Batu Caves, 68100 Kuala Lumpur Tel : 03 – 6186 2267 Faks : 03 – 6187 2267	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)Fast Mark DS 520 HO (Self-drilling Screws)  b)F2(Class 2)	Hot-dipped Zinc Coated  or Aluminium / Zinc Coated	
35	<b>TECK GUAN STEEL SDN. BHD.</b> No. 6, Jalan Cenderakasih, Off Jalan Lintas, Kolombong, 88450 Kota Kinabalu, Sabah Tel : 088-439955 Fax : 088-425135	<b>C-Lipped Channel &amp; Batten</b>  Min. Thickness 1.2mm : Wall Plate Min. Thickness 1.0mm : Main Truss Member & Bracing Min. Thickness 0.5mm : Batten  <i>For base metal thickness less than or equal to 1.2mm then Min. Yield Stress 550 MPa</i>  <i>For base metal thickness greater than 1.2mm then Min. Yield Stress 450 MPa</i>	a)ASTeks Red Point A2S 12-14x20 HWF (Self-drilling Screws)  b)A2S(Class 2)	Hot-dipped Zinc Coated  or Aluminium / Zinc Coated	



Cawangan Kejuruteraan Awam, Struktur & Jambatan  
Jabatan Kerja Raya Malaysia, Kuala Lumpur.

LAMPIRAN A (Rev. 21 JUL 2014)

Senarai ini dikeluarkan oleh : **Pengarah Kanan**  
Cawangan Kejuruteraan Awam, Struktur & Jambatan  
Jabatan Kerja Raya Malaysia  
Tingkat 15, Centrepoint North  
The Boulevard, Mid Valley City  
Lingkaran Syed Putra  
59200 Kuala Lumpur

Pegawai untuk dihubungi	: Ir. Hj. Mohd. Noor Azudin Mansor	Tel: 03-9235 4650	E-mel: <a href="mailto:azudin@jkr.gov.my">azudin@jkr.gov.my</a>
	Ir. Mohd Zamri Abdullah	Tel: 03-9235 4405	E-mel: <a href="mailto:Azamri@jkr.gov.my">Azamri@jkr.gov.my</a>
	En. Abdullah Ab. Wahab	Tel: 03-9235 4771	E-mel: <a href="mailto:Abdullahw@jkr.gov.my">Abdullahw@jkr.gov.my</a>
	En. Megat Kamarulzaman Mgt. Yusoff	Tel: 03-9235 4774	E-mel: <a href="mailto:Megat@jkr.gov.my">Megat@jkr.gov.my</a>
	En. Mohd Rosdi Yusoff	Tel: 03-9235 4776	E-mel: <a href="mailto:rosdiy@jkr.gov.my">rosdiy@jkr.gov.my</a>

Untuk senarai terkini sila layari [http:// www.jkr.gov.my](http://www.jkr.gov.my)



**GARIS PANDUAN BAGI REKABENTUK DAN PEMASANGAN**

**KEKUDA BUMBUNG PASANGSIAP**

1. Keperluan Am

- 1.1 Setiap Kontraktor Utama yang ingin menggunakan sistem kekuda bumbung jenis *Pre-Fabricated Cold Formed Steel* atau *Pre-Fabricated Timber* hendaklah membuat permohonan kepada Pegawai Penguasa / Pengarah Projek dengan mengisi Borang Permohonan Penggunaan Sistem Kekuda Bumbung (Lampiran C).
- 1.2 Pegawai Penguasa / Pengarah Projek akan memastikan bahawa Pembekal Sistem (*System Provider*) yang dicadangkan oleh Kontraktor Utama adalah terdiri dari pembekal-pembekal yang telah disenaraikan di dalam Senarai Pembekal Sistem Kekuda Bumbung (Lampiran A). Senarai ini akan dikemaskini dari masa ke masa dan boleh diakses di laman web [www.jkr.gov.my](http://www.jkr.gov.my) pada ruangan Pengumuman.
- 1.3 Pegawai Penguasa / Pengarah Projek juga akan menyemak kelayakan Pemasang Bertauliah (*Accredited Installer*) dengan menuntut setiap penamaan Pemasang Bertauliah menyertakan surat asal perakuan dari Pembekal Sistem berkenaan.
- 1.4 Pegawai Penguasa / Pengarah Projek akan menyatakan persetujuan terhadap permohonan Kontraktor Utama apabila semua keperluan yang telah ditentukan dalam garis panduan ini telah dipatuhi serta yakin dengan kemampuan Pemasang Bertauliah dan Jurutera Rekabentuk yang dicadangkan.
- 1.5 Pegawai Penguasa / Pengarah Projek akan mengemukakan satu (1) salinan Borang Permohonan (Lampiran C) kepada **Pengarah Kanan, Cawangan Kejuruteraan Awam, Struktur & Jambatan, Jabatan Kerja Raya Malaysia, Tingkat 15, Centre Point North, The Boulevard, Mid Valley City, Lingkaran Syed Putra, 59200 Kuala Lumpur** untuk tujuan rekod.
- 1.6 Pegawai Penguasa / Pengarah Projek akan hanya membuat bayaran untuk pembekalan dan pemasangan kekuda keluli bumbung berkenaan sesudah pihak Kontraktor Utama mengemukakan kepada Pegawai Penguasa / Pengarah Projek perakuan siap yang ditandatangani oleh Jurutera Professional yang berdaftar dengan Lembaga Jurutera Malaysia (BEM). Perakuan tersebut mengesahkan bahawa pembuatan dan pemasangan kekuda telah disiapkan dan kerja telah dibuat selaras dengan lukisan pembinaan dan penentuan yang telah dikemukakan terdahulu.



## 2. Pengemukaan Dokumen Sokongan oleh Kontraktor Utama

- 2.1 Kontraktor Utama adalah dikehendaki untuk mengemukakan kepada Pegawai Penguasa / Pengarah Projek dokumen-dokumen lain yang berkaitan selain dari Borang Permohonan (Lampiran C) bagi menyokong permohonan beliau. Dokumen-dokumen lain yang dimaksudkan itu ialah seperti berikut:
- i) Pengiraan rekabentuk kekuda bumbung (bebanan servis M&E yang ditanggung oleh struktur kekuda seperti *air-conditioner ducting*, dan lain-lain dimasukkan dalam rekabentuk, jika berkenaan. Walaubagaimanapun, struktur kekuda tidak harus direkabentuk untuk menanggung bebanan tangki air.
  - ii) Pengiraan rekabentuk untuk komponen kritikal (*critical members*).
  - iii) Pengiraan rekabentuk untuk perambat kekal (*permanent bracing*).
  - iv) Pengiraan rekabentuk bagi sambungan anggota kekuda (*truss connection*) spt. *fastener, L-bracket dan anchor-bolt*.
  - v) Pengiraan rekabentuk untuk sokong kekuda (*truss support*) yang menggunakan *wall plate*.
  - vi) Lukisan kerja yang disahkan (*certified construction drawings*) yang merangkumi lukisan keseluruhan struktur kekuda, perincian pemasangan bagi perambat kekal, sambungan anggota kekuda (termasuklah perincian sambungan yang melibatkan penggantungan servis M&E, dll) dan sokong kekuda.
  - vii) *Method Statement* untuk kerja-kerja fabrikasi dan pemasangan.
  - viii) Program kawalan mutu dan pemeriksaan yang bakal dijalankan.
  - ix) Perakuan Jurutera Rekabentuk berhubung pematuhan keperluan kadar ketahanan kebakaran sepertimana termaktub dalam Undang-Undang Kecil Bangunan Seragam (UBBL) yang berkuatkuasa.
- 2.2 Semua dokumen-dokumen kejuruteraan yang dihasilkan dan dikemukakan kepada Pegawai Penguasa / Pengarah Projek oleh Kontraktor Utama berhubung dengan kekuda bumbung tersebut hendaklah disahkan, ditandatangani dan diturunkan mohor Jurutera Professional oleh Jurutera Perekabentuk yang bertauliah.
- 2.3 Jurutera Perekabentuk yang boleh ditauliahkan untuk menjalankan kerja-kerja rekabentuk dengan pengesahan pemasangan di tapak ialah jurutera yang berdaftar dengan Lembaga Jurutera Malaysia (BEM) sebagai Jurutera Professional (*Professional Engineer*) dan masih dibenarkan untuk menjalankan kerja-kerja kejuruteraan.
- 2.4 Kontraktor Utama dikehendaki untuk menyelia kerja-kerja pemasangan kekuda bumbung tersebut serta memastikan kerja yang dihasilkan adalah terbaik dan keselamatan awam adalah terjamin pada setiap masa.

**Permohonan Penggunaan Sistem Kekuda Bumbung :**

*Pre-Fabricated Cold Formed Steel*  
*Pre-Fabricated Timber*

*Factory Fabrication*  
*On-site Fabrication*

**A. Maklumat Asas Projek**

- i. Nama projek : .....
- ii. No. Kontrak : .....
- iii. Nama dan Alamat : .....
- Kontraktor Utama .....

**B. Maklumat Cadangan Sistem Kekuda**

Adalah saya Kontraktor Utama projek ini memohon untuk menggunakan sistem kekuda pasangsiap tersebut sebagaimana butiran di bawah :

- i. Nama dan Alamat Pembekal Sistem : .....
- ii. Nama dan Alamat Perekabentuk : .....
- (Alamat Perekabentuk) .....
- (Nombor Pendaftaran LJM) .....
- iii. Nama dan Alamat Pemasang Bertauliah : .....

*(Sila sertakan Surat Perakuan Pemasang Bertauliah dari Pembekal Sistem)*

**C. Perakuan Kontraktor Utama**

Adalah saya Kontraktor Utama projek ini yang memohon untuk menggunakan kekuda pasangsiap seperti butiran di atas, mengakui bahawa saya adalah bertanggungjawab sepenuhnya terhadap pembekalan, rekabentuk dan pemasangan kekuda pasangsiap tersebut.

Tarikh : .....

.....  
(Tandatangan Kontraktor Utama dan Cop Mohor)

**D. Perakuan Pembekal Sistem**

Saya mengesahkan bahawa sistem kekuda syarikat kami dicadangkan untuk projek di atas mencapai segala keperluan yang dinyatakan di dalam spesifikasi.

Tarikh : .....

.....  
(Tandatangan Pembekal Sistem dan Cop Mohor)

**ADDENDUM KEPADA SPESIFIKASI JKR (UNTUK PROJEK-PROJEK YANG MASIH MENGGUNAKAN *STANDARD SPECIFICATIONS FOR BUILDING WORKS 2005*)**

- 1) Semua kerja rekabentuk, pembekalan dan pemasangan sistem kekuda bumbung keluli (cold formed) hendaklah merujuk Spesifikasi JKR : *Pre-Fabricated Cold Formed Steel Roof Trusses* (JKR 20601-0186-11). Dilampirkan muka hadapan spesifikasi JKR 20601-0186-11.
- 2) Semua kerja rekabentuk, pembekalan dan pemasangan sistem kekuda bumbung kayu hendaklah merujuk Spesifikasi JKR : *Pre-Fabricated Timber Roof Trusses* (JKR 20601-0190-12). Dilampirkan muka hadapan spesifikasi JKR 20601-0190-12.
- 3) Spesifikasi JKR 20601-0186-11 merupakan addendum kepada spesifikasi JKR : *Standard Specifications For Building Works 2005*. Dilampirkan salinan surat edaran bil.(30)d/m.JKR.CKASJ/02.500/030/LN/42 bertarikh 9 Januari 2012 untuk pemakaian spesifikasi kepada klausa-klausa berkaitan dalam spesifikasi JKR : *Standard Specifications For Building Works 2005*.



# JABATAN KERJA RAYA MALAYSIA

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Laman Web : <http://www.jkr.gov.my>



Ruj. Kami : (30) dlm. JKR.CKASJ/02.500/030/LN/42  
Tarikh : 9 Januari 2012

**Semua Pengarah Cawangan Ibu Pejabat JKR**

**Semua Pengarah Kerja Raya Negeri**

**Pengarah JKR Unit Khas**

**Semua Jurutera Daerah**

Tuan,

**PERKARA : Edaran Spesifikasi Terkini JKR : *Pre-Fabricated Cold Formed Steel Roof Trusses (JKR 20601-0186-11)***

Dengan hormatnya pihak kami merujuk kepada perkara di atas.

2. Adalah dimaklumkan bahawa Cawangan Kejuruteraan Awam, Struktur & Jambatan, Jabatan Kerja Raya Malaysia telah menerbitkan spesifikasi JKR: *Pre-Fabricated Cold Formed Steel Roof Trusses (JKR 20601-0186-11)* menggantikan spesifikasi JKR: *Pre-Fabricated Cold Formed Steel Roof Trusses (JKR 20600-0022-2001)* yang dikeluarkan pada tahun 2001.

3. Untuk makluman tuan, pemakaian spesifikasi terkini ini adalah berkuatkuasa dengan serta merta. Bagaimanapun, pemakaian spesifikasi JKR 20600-0022-2001 adalah masih sah sekiranya perolehan dan kelulusan rekabentuk, pembekalan dan pemasangan sistem kekuda bumbung telah diberi sebelum tarikh surat ini.

4. Bersama-sama ini diedarkan spesifikasi tersebut dan addendum kepada spesifikasi piawai bangunan untuk dimasukkan ke dalam dokumen perolehan bagi semua projek JKR.

5. Spesifikasi ini juga boleh di muat turun melalui laman web CKASJ pada ruangan Dokumentasi/Spesifikasi.

Sekian dimaklumkan, terima kasih.

**“BERKHIDMAT UNTUK NEGARA”**

Saya Yang Menurut Perintah

(IR. DR. ABDUL AZIZ BIN HJ. ARSHAD)

Pengarah Kanan

Cawangan Kejuruteraan Awam, Struktur & Jambatan

Jabatan Kerja Raya Malaysia

Kuala Lumpur



NO. SIRI SUJIL MS ISO 9001: 0326



MS ISO 14001 CERT. NO J011301102



## JABATAN KERJA RAYA MALAYSIA

CAWANGAN KEJURUTERAAN AWAM  
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### ADDENDUM KEPADA SPESIFIKASI UNTUK DOKUMEN PEROLEHAN BAGI PEMBEKALAN SISTEM KEKUDA BUMBUNG KEKUDA PASANGSIAP

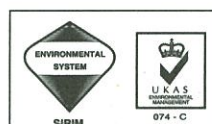
#### A) STANDARD SPECIFICATIONS FOR BUILDING WORKS 2005 (JKR20800-132-23)

#### Amendment to Section I, Clause 3.0 : Prefabricated Cold Formed Steel Roof Trusses

- 3.1 The existing sentence of "The design, supply, delivery and erection of the trusses shall be in accordance with JKR's Standard Specifications for Prefabricated Cold Formed Steel Roof Trusses No.JKR 20600-0022-2001" is amended by replacing the word "JKR 20600-0022-2001" of the sentence with the word "JKR 20601-0186-11".
- 3.2 The existing sentence of "The roof truss system shall be selected from the most current list of approved Cold Formed Roof Truss System Providers issued by Pengarah Cawangan Pakar dan Kejuruteraan Awam, Ibu Pejabat JKR Malaysia" is amended by replacing the words "Pengarah Cawangan Pakar dan Kejuruteraan Awam" of the sentence with the words "Pengarah Kanan Cawangan Kejuruteraan Awam, Struktur dan Jambatan".
- 3.3 The existing sentence of "The Contractor shall enclose with his application all other documentation as mentioned in the JKR Standard Specifications for Prefabricated Cold Formed Steel Roof Trusses No.JKR 20600-0022-2001" is amended by replacing the word "JKR 20600-0022-2001" of the sentence with the word "JKR 20601-0186-11".



NO. SIRI SUJIL MS ISO 9001: 0326



MS ISO 14001 CERT. NO J011301102





## JABATAN KERJA RAYA MALAYSIA

CAWANGAN KEJURUTERAAN AWAM  
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3.4 No amendment.

3.5 No amendment.

3.6 The existing sentence of "the Contractor shall submit to the S.O all relevant documents as mentioned in the JKR Standard Specifications for Prefabricated Cold Formed Steel Roof Trusses No.JKR 20600-0022-2001" for information and record" is amended by replacing the word "JKR 20600-0022-2001" of the sentence with the word "JKR 20601-0186-11".

### **B) JKR STANDARD SPECIFICATIONS FOR STRUCTURAL STEEL WORK (JKR NO. 20600-0019-99)**

**JKR Specification – Pre-Fabricated Cold Formed Steel Roof Trusses No. JKR 20601-0186-11 supersedes Clause 12.0, Prefabricated Cold Formed Steel Roof Trusses, JKR Standard Specification for Structural Steel Work. JKR No. 20600-0019-99.**

*Disediakan Oleh :*

*Pejabat Pengarah Kanan*

*Cawangan Kejuruteraan Awam, Struktur & Jambatan*

*Jabatan Kerja Raya Malaysia*

*Tingkat 15, Centrepont North*

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*59200 Kuala Lumpur*



NO. SIRI SUJIL MS ISO 9001: 0326



MS ISO 14001 CERT. NO J011301102

J K R 2 0 6 0 1 - 0 1 8 6 - 1 1



# S P E C I F I C A T I O N PRE FABRICATED COLD FORMED STEEL ROOF TRUSSES

**CAWANGAN KEJURUTERAAN AWAM STRUKTUR & JAMBATAN • JKR MALAYSIA**



J K R 2 0 6 0 1 - 0 1 9 0 - 1 2



**S P E C I F I C A T I O N  
P R E - F A B R I C A T E D  
T I M B E R R O O F T R U S S E S**

**CAWANGAN KEJURUTERAAN AWAM STRUKTUR & JAMBATAN  
J A B A T A N K E R J A R A Y A M A L A Y S I A**